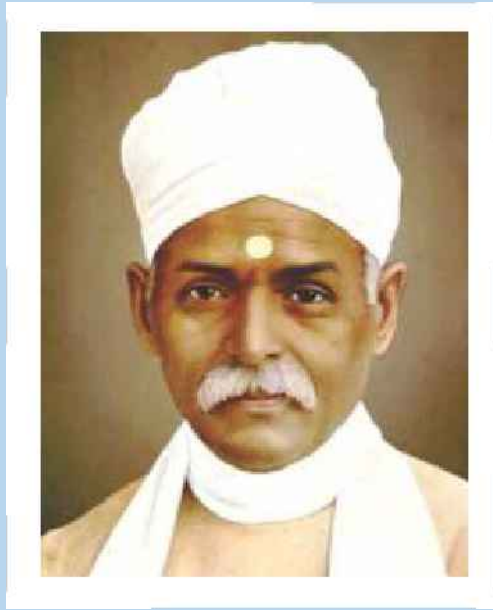


Annual Report & Annual Accounts 2015-16



Malaviya National Institute of Technology Jaipur



Bharat Ratna Pt. Madan Mohan Malaviya



VISION

To create a center for imparting technical education of international standards and conducting research at the cutting edge of technology to meet the current and future challenges of technological development.

MISSION

To create technical manpower for meeting the current and future demands of industry. To reorganize education and research in close interaction with industry with emphasis on the development of leadership qualities in the young men and women entering the portals of the Institute with sensitivity to social development and eye for opportunities for growth in the international perspective.

ध्यान रखना होगा कि कल क्या था, आज क्या है: अरविंद पनगडिया

एमएनआईटी में नीति आयोग के उपाध्यक्ष का व्यक्तित्व

नवभारत विकास गणराज्य में विद्यार्थियों पर आगे बढ़ते हुए देश में वैश्वीय से परिचयाने ला सकते हैं। हमें अन्ध देखे के साथ साथ ही नुकसान करने हुए इस बात को ध्यान में रखना होगा कि हमका युवा शक्ति का क्या है और आज का क्या है, यह जानना ही नीति आयोग के उपाध्यक्ष पनगडिया के लिए प्राथमिकता है। वे युवाओं को एमएनआईटी में सम्पन्न भारत की ओर आकर्षित करने पर यत्न करेंगे। युवाओं को प्रेरित करने के लिए वे कहेंगे कि हमें अन्ध देखे के साथ ही नुकसान करने हुए इस बात को ध्यान में रखना होगा कि हमका युवा शक्ति का क्या है और आज का क्या है, यह जानना ही नीति आयोग के उपाध्यक्ष पनगडिया के लिए प्राथमिकता है।



नीति आयोग के उपाध्यक्ष पनगडिया का उद्देश्य है कि युवाओं को एमएनआईटी में सम्पन्न भारत की ओर आकर्षित करने पर यत्न करेंगे। युवाओं को प्रेरित करने के लिए वे कहेंगे कि हमें अन्ध देखे के साथ ही नुकसान करने हुए इस बात को ध्यान में रखना होगा कि हमका युवा शक्ति का क्या है और आज का क्या है, यह जानना ही नीति आयोग के उपाध्यक्ष पनगडिया के लिए प्राथमिकता है।

'ISRO ready for manned-mission'



ISRO is ready for manned-mission. The organization is preparing for a manned mission to the Moon. The first mission is planned for the first quarter of 2014. The mission will be carried out by the Chandrayaan-2 orbiter. The mission will be carried out by the Chandrayaan-2 orbiter. The mission will be carried out by the Chandrayaan-2 orbiter.

नई सोच के साथ आगे बढ़ने वाले होंगे सफल: प्रो. माशेलकर



Prof. Mashekar is speaking at a podium. He is discussing the future of education and the role of institutions like MNIT. He emphasizes the need for innovation and new ideas to move forward.

10TH CONVOCATION OF MNIT CONCLUDES



Malaviya National Institute of Technology (MNIT), Jaipur concluded its 10th convocation on Friday. The event was graced by professor RA Mashekar, Padma Vibhushan and former director general, Council of Scientific and

अब फिल्म के जरिए प्रमोशन

एमएनआईटी बनवा रहा है इंस्टीट्यूट पर फिल्म



सेट्रो रिपोर्टर जयपुर 10 नवंबर

एमएनआईटी भी अब सेल्फ प्रमोशन की राह पर चल पड़ा है। अपनी सफलता की कहानी का प्रदर्शन एमएनआईटी एक शॉर्ट फिल्म के जरिए करने का जा रहा है। इसके लिए इंस्टीट्यूट प्रोडक्शन इवेंटिव संभलेंगे। एम टैक्सर जारी मिनट और देने होंगे इंस्टीट्यूट का।

स्वदेशी टेक्नोलॉजी विकसित करने में हम किसी स्तर पर पीछे नहीं

एमएनआईटी, जयपुर में एडवॉकट मेटेरियल एंड प्रोसेसिंग पर कॉन्फ्रेंस का आयोजन। डॉ. अरविंद पनगडिया का उद्देश्य है कि युवाओं को प्रेरित करने के लिए वे कहेंगे कि हमें अन्ध देखे के साथ ही नुकसान करने हुए इस बात को ध्यान में रखना होगा कि हमका युवा शक्ति का क्या है और आज का क्या है, यह जानना ही नीति आयोग के उपाध्यक्ष पनगडिया के लिए प्राथमिकता है।



डॉ. अरविंद पनगडिया का उद्देश्य है कि युवाओं को प्रेरित करने के लिए वे कहेंगे कि हमें अन्ध देखे के साथ ही नुकसान करने हुए इस बात को ध्यान में रखना होगा कि हमका युवा शक्ति का क्या है और आज का क्या है, यह जानना ही नीति आयोग के उपाध्यक्ष पनगडिया के लिए प्राथमिकता है।

हर एनआईटी में हो इंट्यूबेशन सेंटर



हर एनआईटी में हो इंट्यूबेशन सेंटर। एमएनआईटी में आर्थिक प्रगति में इनवैशन का महत्व विचार पर हुआ सेमिनार। डॉ. अरविंद पनगडिया का उद्देश्य है कि युवाओं को प्रेरित करने के लिए वे कहेंगे कि हमें अन्ध देखे के साथ ही नुकसान करने हुए इस बात को ध्यान में रखना होगा कि हमका युवा शक्ति का क्या है और आज का क्या है, यह जानना ही नीति आयोग के उपाध्यक्ष पनगडिया के लिए प्राथमिकता है।

टेक्नोलॉजी से 50 फीसदी विकास संभव: प्रो. शर्मा

टेक्नोलॉजी से 50 फीसदी विकास संभव: प्रो. शर्मा। एमएनआईटी में आर्थिक प्रगति में इनवैशन का महत्व विचार पर हुआ सेमिनार। डॉ. अरविंद पनगडिया का उद्देश्य है कि युवाओं को प्रेरित करने के लिए वे कहेंगे कि हमें अन्ध देखे के साथ ही नुकसान करने हुए इस बात को ध्यान में रखना होगा कि हमका युवा शक्ति का क्या है और आज का क्या है, यह जानना ही नीति आयोग के उपाध्यक्ष पनगडिया के लिए प्राथमिकता है।

सिद्दीकी ने विद्यार्थियों को कैरियर के चुनाव के बारे में बताया। डॉ. अरविंद पनगडिया का उद्देश्य है कि युवाओं को प्रेरित करने के लिए वे कहेंगे कि हमें अन्ध देखे के साथ ही नुकसान करने हुए इस बात को ध्यान में रखना होगा कि हमका युवा शक्ति का क्या है और आज का क्या है, यह जानना ही नीति आयोग के उपाध्यक्ष पनगडिया के लिए प्राथमिकता है।



कलाओं की उत्सवधर्मिता से होगी प्रसन्नता सूचकांक में वृद्धि

कलाओं की उत्सवधर्मिता से होगी प्रसन्नता सूचकांक में वृद्धि। डॉ. अरविंद पनगडिया का उद्देश्य है कि युवाओं को प्रेरित करने के लिए वे कहेंगे कि हमें अन्ध देखे के साथ ही नुकसान करने हुए इस बात को ध्यान में रखना होगा कि हमका युवा शक्ति का क्या है और आज का क्या है, यह जानना ही नीति आयोग के उपाध्यक्ष पनगडिया के लिए प्राथमिकता है।

सिद्दीकी ने विद्यार्थियों को कैरियर के चुनाव के बारे में बताया

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एमएनआईटी में आर्थिक प्रगति में इनवैशन का महत्व विचार पर हुआ सेमिनार

एमएनआईटी में आर्थिक प्रगति में इनवैशन का महत्व विचार पर हुआ सेमिनार। डॉ. अरविंद पनगडिया का उद्देश्य है कि युवाओं को प्रेरित करने के लिए वे कहेंगे कि हमें अन्ध देखे के साथ ही नुकसान करने हुए इस बात को ध्यान में रखना होगा कि हमका युवा शक्ति का क्या है और आज का क्या है, यह जानना ही नीति आयोग के उपाध्यक्ष पनगडिया के लिए प्राथमिकता है।

मुझे गर्व है' मैं भारतीय हूँ
और
कर्तव्य निष्ठा से मैं...

- हिंसा से दूर रहूँगा।
- राष्ट्र की सेवा करूँगा।
- सार्वजनिक सम्पत्ति की संरक्षा करूँगा।
- प्राणी मात्र के प्रति दया का भाव रखूँगा।
- संविधान का, राष्ट्र ध्वज का एवं राष्ट्रगान का आदर करूँगा।
- राष्ट्रीय आंदोलन को प्रेरित करने वाले उच्च आदर्शों का पालन करूँगा।
- वैज्ञानिक दृष्टिकोण का, मानववाद का, सुधार की भावना का विकास करूँगा।
- भारत के सभी लोगों में समरसता और समान भ्रातृत्व की भावना का निर्माण करूँगा।
- रित्रियों के सम्मान के विरुद्ध प्रथाओं का एवं धर्म, प्रदेश या वर्ग के आधार पर भेदभाव का त्याग करूँगा।
- देश की, भारत की एकता-अखण्डता और प्रभुता की एवं वन, झील, नदी और वन्य जीव की रक्षा करूँगा।
- व्यक्तिगत और सामूहिक गतिविधियों के सभी क्षेत्रों में उत्कर्ष की ओर बढ़ने का प्रयास करूँगा।



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Malaviya National Institute of Technology Jaipur

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Yoga Day-2015



1st Visit of Chairperson in the Institute



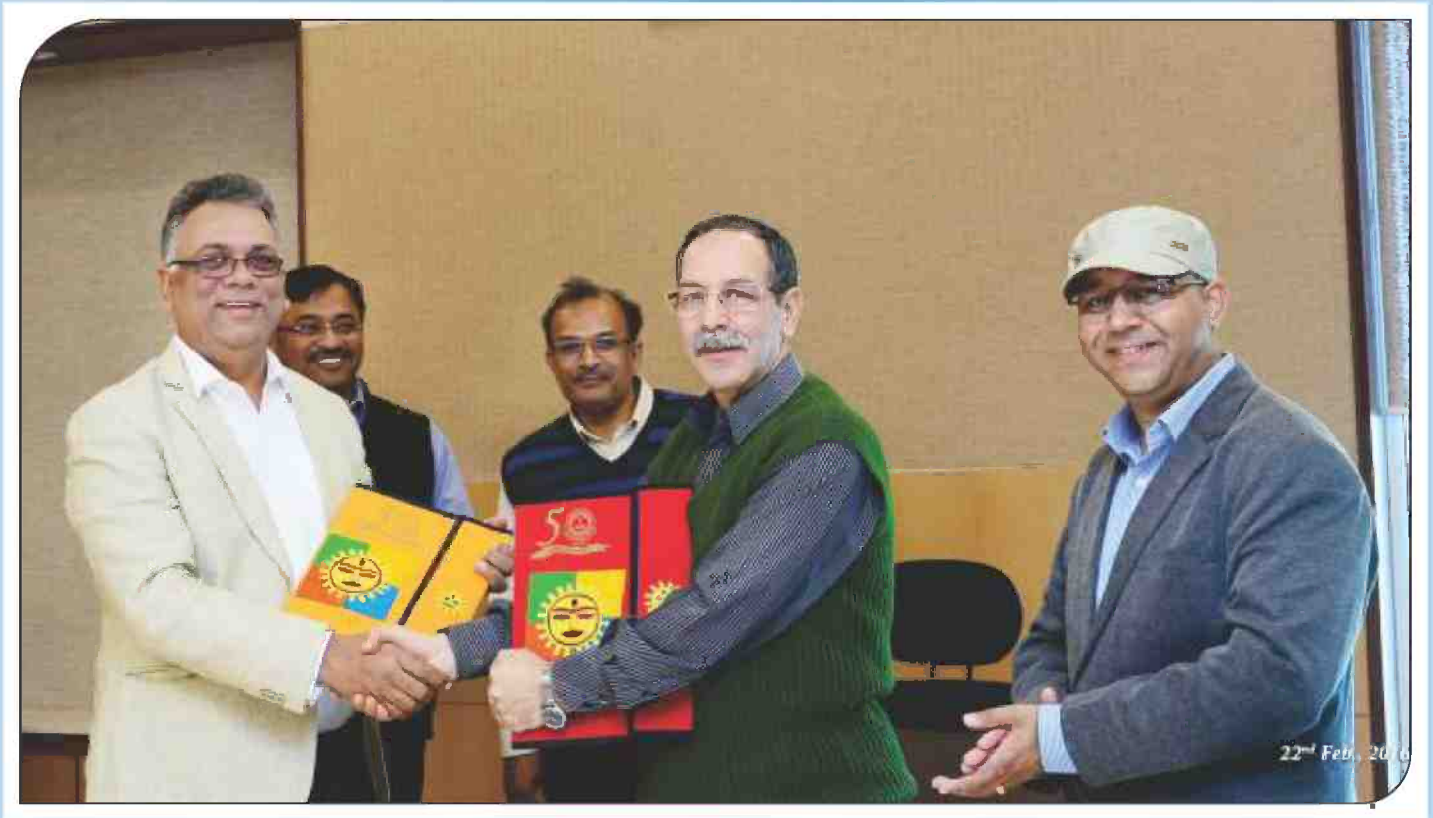
New Infrastructure Developments



Dignitaries Visited the Institute



New MOU's



Awareness Programmes



Invited Motivational Lectures



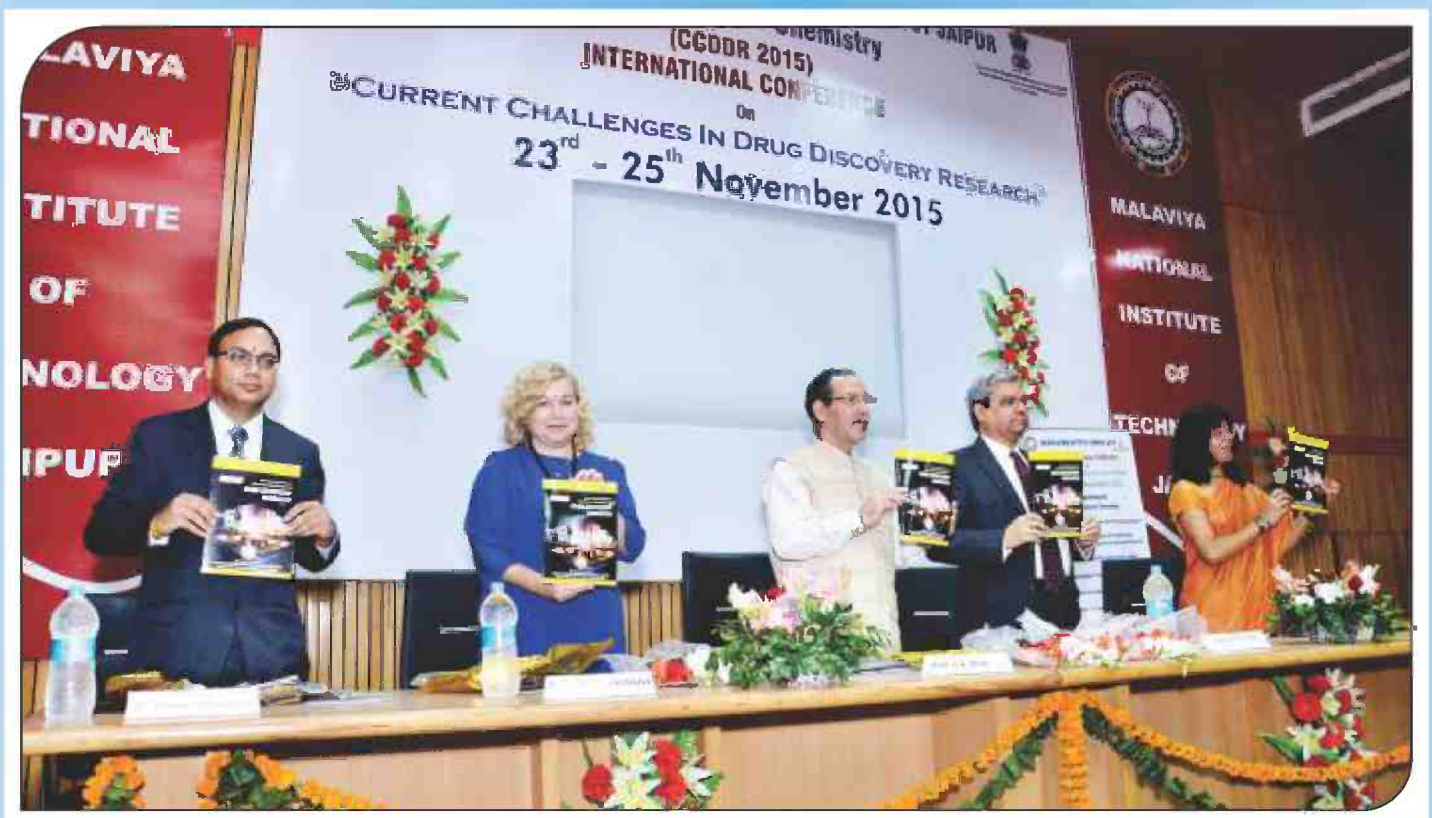
New Laboratories



New Laboratories



Seminar, Workshop & Conference



Seminar, Workshop & Conference



18th All India Adwani Memorial Basketball Tournament



14th Engineers Cup Cricket Tournament (T-20) 2015



10th Convocation



10th Convocation

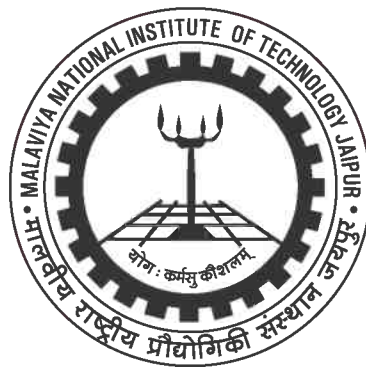


Mega (Alumni) Function-2015





Annual Report & Annual Accounts 2015-16



**MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY
JAIPUR - 302017**



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Printed at : Popular Printers
Jaipur • 0141-2606883



Part - 1

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MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY, JAIPUR

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REVIEW

ACADEMIC PROGRAMMES

(a) Undergraduate Programmes (Bachelor of Technology/Architecture)

Academic Programmes leading to B. Tech. /B. Arch. Degree are as noted below

S. No.	Discipline/Duration	No. of Seats
1.	Architecture & Planning (5 years)	62
2.	Civil Engg. (4 years)	92
3.	Chemical Engg. (4 years)	92
4.	Computer Science & Engineering (4 years)	93
5.	Electrical Engg. (4 years)	93
6.	Electronics & Communication Engg. (4 years)	93
7.	Mechanical Engg. (4 years)	93
8.	Metallurgical & Materials Engg. (4 years)	92
Total		710

(b) Postgraduate Programmes (Technology/Science/Management)

Academic Programmes leading to M. Tech./M.Plan./M.B.A./M.Sc. Degree as noted below:

S. No.	Department	Programme	Year of starting
1.	Centre for Energy & Environment	Renewable Energy	2013
2.	Chemical Engineering	Chemical Engineering	2006
3.	Civil Engineering	Environmental Engineering	1989
4.	Civil Engineering	Water Resources Engineering	1985
5.	Civil Engineering	CAD/Structural Engineering	1996/2006
6.	Civil Engineering	Transportation Engineering	1996
7.	Civil Engineering	Disaster Assessment and Mitigation	2010
8.	Computer Science & Engineering	Computer Engineering	2008
9.	Electrical Engineering	Power Systems	1987
10.	Electrical Engineering	Power Electronics & Drives	2015
11.	Electronic & Communication Engg	VLSI Design	2006
12.	Electronics & Communication Engg	Wireless & Optical Communication	2014
13.	Electronics & Communication Engg	Embedded System	2014
14.	Electronics & Communication Engineering	Electronics & Communication Engineering	1992
15.	Mechanical Engineering	Manufacturing System Engg./ Industrial Engineering	1996/2013
16.	Mechanical Engineering	Energy/Thermal Engineering	2006/2013



S. No.	Department	Programme	Year of starting
17.	Mechanical Engineering	Production Engineering	2013
18.	Mechanical Engineering	Design Engineering	2013
19.	Metallurgical & Materials Engg.	Non Ferrous Met./Metallurgical & Materials Engg	1971/2006
20.	Metallurgical & Materials Engg.	Steel Technology	2013
21.	Architecture & Planning	Urban Planning	2008
22.	National Centre of Disaster Mitigation & Management	Earthquake Engineering	2015
23.	Chemistry	Applied Chemistry	2006
24.	Mathematics	Applied Mathematics	2006
25.	Physics	Applied Physics	2006
26.	Management Studies	MMS/M.B.A.	1996/2006

ADMISSION PROCEDURE

(a) Undergraduate Programmes

The admissions are made through JEE (Main) conducted by the Central Seat Allocation Board i.e. CSAB and after online centralized counseling of JoSAA (Joint Seat Allocation Authority) on behalf of the Ministry of Human Resource Development, Govt. of India, New Delhi. The minimum academic qualification for admission through JEE (Main) is a pass in the final examination of 10+2 (Class XII) or its equivalent. Foreign students are admitted through DASA, ICCR and MEA.

(b) Postgraduate Programmes

Admissions for M. Tech. / M. Plan. are done (i) for full time through score in GATE conducted by IIT through CCMT counselling and (ii) for sponsored candidates, whether full time or part time, through interview/test/GATE (depending on availability of seats)/Admissions to full time and part time (iii) M.Sc. admission are done through CCMN (Centralized Counseling for M.Sc./M.Sc. (Tech.) Admissions to NITs and CFTIs) (iv) MBA & Ph.D. programmes are done through interview/tests conducted by individual Department.

BOARD OF GOVERNORS

The institute is managed by a board of governors which consists of

- The Chairperson (appointed by Visitor)
- The Director, *Ex officio*
- Two persons not below the rank of Joint Secretary to the Government of India to be nominated by the central Government from amongst persons dealing with technical education and finance,
- Two persons to be nominated by the Government of the state in which the institute is situated, from amongst persons who, in the opinion of that Government are technologists or Industrialists of repute,
- Two persons, at least one of whom shall be a woman having special knowledge or practical experience in respect of education, engineering or science to be nominated by the Council; and
- One professor and one assistant professor or a lecturer of the institute to be nominated by the Senate.

- g) The Director of the Indian Institute of Technology in whose zone the Institute is located, or his nominee, not below the rank of a Professor.

Present composition of Board of Governors is given in Annexure 11.1

FINANCE COMMITTEE

The Committee is constituted by Board of Governors which consists of

- (i) The Chairperson Board of Governors, Ex- officio Chairperson
- (ii) The Director, Ex- officio Member
- (iii) Joint Secretary dealing with National Institutes of Technology or his nominee and Financial Advisor (Human Resource Development) or his nominee members;
- (iv) Two persons nominated by the Board from amongst its members; and
- (v) The Registrar, Ex-officio, Member Secretary

Present composition of Finance Committee is given in Annexure 11.2

BUILDING AND WORKS COMMITTEE

The Committee is constituted by Board of Governors which consists of

- (i) The Director, Ex-officio Chairman;
- (ii) One member nominated by the Central Government not below the rank of Director or Deputy Secretary;
- (iii) One member nominated by the Board of Governors
- (iv) Registrar, Ex-officio, Member Secretary
- (v) Dean Planning & Development or similar position Member and
- (vi) One expert each from Civil and Electrical Engineering Wing of Central or State Government or any autonomous body of repute - Member

Present composition of Building and Works Committee is given in Annexure 11.2

SENATE

The Senate of every Institute shall consist of the following:-

- (i) The Director, ex officio, who shall be the Chairman of the Senate;
- (ii) The Deputy Director, ex officio;
- (iii) The Professors appointed or recognised as such by the Institute for the purpose of imparting instruction in the Institute;
- (iv) Three persons, one of whom shall be a woman, not being employees of the Institute, to be nominated by the Chairperson in consultation with the Director, from amongst educationists of repute, one each from the field of science, engineering and humanities; and
- (v) Such other members of the staff as may be laid down in the Statutes.

Present composition of Senate is given in Annexure 11.2



STAFF

The details of teaching, administrative and other staff are given in chapter 3.1 and 3.2.

ACADEMIC DEPARTMENTS

The detailed information about the academic departments of the Institute including participation of faculty members in Seminars, Symposia, Workshops and summer/winter schools and organization of various academics activities by the faculty members are listed in chapter 11.5. Sponsored research projects/consultancy worth more than 2.76 Crores are currently under progress at the institute. The consultancy revenue generation has also increased in the Institute. The Institute is a part of Technical Education Quality Improvement Programme (TEQIP), Phase II.

The details regarding the research projects and consultancy projects are listed in chapter 11.3. The research output in the form of publication in journals/conference proceedings/books are given in chapter 11.9. A large number of M.Tech and Ph.D. students are carrying out research for their dissertation/Thesis work. The details of each candidate along with his area of research are given in chapter 11.7

EXAMINATION AND EVALUATION

Best Practices

Academic: A continuous process of evaluation in each semester is the highlight of the grading system. Each student is assessed on the basis of his/her performance in tutorials practicals class assignments, home assignments, term papers, seminars, quizzes, Midterm and End term examinations.

To ensure maximum transparency in the appraisal of the academic performance, the answer sheets of the mid- & End term examination are shown and discussed with the students.

Subject to fulfilling the minimum requirement for continuation, a student is allowed to progress at an optimum pace, suited to his/her ability and convenience.

Each course has a number of credits and this number defines the weightage of this course. The performance of the student is measured in terms of the number of credits he/she has successfully completed. A minimum Grade Point Average is mandatory to be maintained for satisfactory progress. A minimum number of credits and CGPA is mandatory to qualify for the degree.

A Course coordinator is designated for every course. He/she shoulders the full responsibilities for the conduct of the course, coordinating the work of other members of the faculty involved in the teaching and evaluation of the course. The student may approach the course coordinator for any matter related to the course.

Grading System:

The academic performance is graded on a ten-point scale. With the exception of Audit courses, the letter grade is awarded for each course and is converted into Semester Grade Point Average and Cumulative Grade Point Average called the SGPA & the CGPA respectively.

Scholarships:

A number of scholarships are available to the students on merit or merit cum need basis. The scholarships are extended to the students of U.G., P.G. and Ph.D programmes of the institutes. Some of the prominent funding agencies for the assistantships are the MHRD, the AICTE, Ministry of Urban Development CSIR, SAIL, ONGC, Ministry of Social Justice, Ministry of Tribal Affairs NCPEDP, NTPC Ltd, Ministry of Minority Affairs, NCERT, and Boards of Higher Education of various states.

Many scholarships are sponsored by individuals. The details are given in annexure **11.10**.

Training & Placement:

The Placement Cell has been active in arranging training and placement for students. This year a total of 95 companies visited the Campus and selected 516 (432 B.Tech, 68 M.Tech. and 16 MBA) students. Highest and Average Packages offered by companies were Rs. 25.00 LPA to 4 students of Computer Science & Engineering including one student was given Pre Placement Offers (PPOs), and the average package of placed students (B.Tech) was 5.77 LPA. The details are given in annexure 11.11.

Library:

The Library underwent a massive renovation in the year 2011-12 and since then there has been a continuous augmentation in access to books journals, e-journals, e-granthalayas. The academic departments are periodically requested to furnish their requirements and these are then processed & procured with streamlined system. Following recent developments have been taken place in the Central Library. Library Database on KOHA (Library Management Software), RFID System for Smart Circulation with Gate Antenna, Smart Card Technology. The details are given at 9.3

Hostels:

There are twelve hostels for the students of our Institute, Nine for boys and three for girl students. The total capacity of hostels for male candidates is around 2500 and that for female candidates is around 650. Apart from accommodation for regular students, we have 60 well furnished guest rooms (40 for male candidates and 20 for female candidates) for research scholars, trainees of short term training programs, etc., visiting MNIT for short durations.

The hostels are equipped with modern facilities like net connectivity through Wi-Fi/LAN, automatic laundry facilities, solar geysers etc.; all hostels have manned security round the clock. All the hostel premises have large open areas with good landscaping and playgrounds.

The details are given in chapter 4.5.

Games & Sports:

The department has been active in promoting sports activities and their effort can be seen in the increased participation of students on a regular basis as well as in tournament and events.

Our students have won several prizes at tournaments held in other institutes/ states.

The Advani Memorial Basketball (AIAMBT) tournament has been revived and is being organized with great enthusiasm since the last 5 years.

Date:**Place: Jaipur****Director**



MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY, JAIPUR

ANNUAL REPORT

YEAR 2015-16

1. INTRODUCTION

1.1 VISION AND MISSION STATEMENT

VISION

To create a center for imparting technical education of international standards and conducting research at the cutting edge of technology to meet the current and future challenges of technological development.

MISSION

To create technical manpower for meeting the current and future demands of industry. To reorganize education and research in close interaction with industry with emphasis on the development of leadership qualities in the young men and women entering the portals of the Institute with sensitivity to social development and eye for opportunities for growth in the international perspective.

1.2 QUALITY POLICY

The MNIT shall strive to impart knowledge in such a manner as to achieve total satisfaction of students, parents, employers, and the society.

Institute Motto

Excellence can be achieved only through perseverance and hard work.

1.3 EDUCATION SYSTEM

The Institute is a centrally funded technical institute and awards its own degree. Semester scheme is followed for both undergraduate and postgraduate courses.

The academic performance of a student is graded on a ten-point scale; the letter grades awarded to a student in all the courses (except audit courses) are converted into a semester and cumulative performance index called the Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA) respectively. A system of feedback by the students about the instructor and the course is also in practice.

1.4 NEW INITIATIVES

Infrastructure Development

An ultra-modern Corporate Office and **Computer Centre** have been developed and a **Digital Library** is being developed, having a carpet area of 20,000 square meters, for the students and faculty members of the



institute. The building houses the entire Administrative and Accounts Section, Establishment and Academic Staff office, Director's office, Deans' office, Registrar's office, Training & Placement office with banking and post office services. It has state of the art computer labs, automated solutions of IT resources with single interface for administration for entire IT infrastructure.

The Vivekananda Lecture Complex: The complex has 34,360 square meters covered area and has been built at an expenditure of Rs 80 crores. The building is centrally air-conditioned with 43 theatres with a seating capacity of 120 and 6 theatres with a seating capacity of 240. These classrooms will be smart classrooms and will be equipped with all needful systems. As a commitment towards green buildings, solar panels are being put up on almost all Institute buildings to generate electricity.

Two entire floors are being added to the **Electronic and Communication Engineering Department building** with a focus on developing sophisticated laboratories. The Institute has renovated and rehabilitated its old laboratories in most of the departments like Architecture, Physics, Chemistry, Computer Science engineering, Metallurgy, Mechanical, Chemical and Electrical engineering departments. Looking at the shortage of residences, **new residential apartments** called the **Acharya Bhawan** with 198 quarters is additionally being constructed to accommodate the faculty members on the campus.

Towards developing sports infrastructure for students and faculty, the Institute has developed **three new synthetic tennis courts** with flood lights which are of international standards.

Data Centre and Language Lab: The Centre has 510 high-end PCs including 120 graphics work stations placed in 10 computer laboratories which provide computational environment to all students, faculty and researchers. A Data Centre with Private Cloud using VMware Cloud Suite has also been established in the centre. MNIT private cloud is housing various services like LDAP, DNS; web applications like "mnit" and "nit council" portals; and various software license servers like MATLAB, Hyperworks, Auto CAD, Auto Desk, LMS, and Antivirus etc.

The Data Centre is also equipped with 60 TB of storage from EMC. The Data Centre Storage is being used for keeping video lecture of Virtual Class Room as well as e-content uploaded by various department. E-mail archival; and various other softwares.

2. AN OVERVIEW

2.1 HISTORICAL BACKGROUND

Established in 1963 as a joint venture of the Government of India and the Government of Rajasthan, The Malaviya Regional Engineering College, Jaipur started functioning with 30 students each in Electrical Engg. and Mechanical Engg. The college shifted to the present campus in Jaipur in 1965. Spread over 125 Hectares of lush greenery, the campus of MNIT enthral and inspires. Indeed, all the states and union territories of the country are represented in the undergraduate intake of the Institute (50% from Rajasthan & the 50% from all other states & union territories of India), thus making it a perfect example of the celebrated axiom, 'unity in diversity'.

The great educationist and visionary, Prof. V. G. Garde, as its first Principal, moulded its destiny, with his characteristic élan, into a renowned Institute. The effort to maintain the high standard and committed approach of the College to the cause of technical excellence was recognized by the Ministry for Human Resource Development and University Grants Commission, New Delhi which granted it the status of a National Institute of Technology and Deemed University on June 26, 2002. It is one of the 30 NIT's established in different states of the country. Through an Act of Parliament, it has been granted the status of a Centre of Excellence since 15th August 2007. Governed by the NIT Council, the Institute has four statutory bodies, namely, the Board of Governors, the Finance Committee, the Building and Works Committee and the Senate. The Institute is fully funded by MHRD, the Government of India, New Delhi.

The Institute is under the administrative control of a Board of Governors. It is authorized by the parliament to award its own degree.

There are fourteen departments and Six centres viz. Architecture, Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, Electronics & Communication Engineering, Mechanical Engineering, Metallurgical and Materials Engineering, Physics, Chemistry, Mathematics Management departments, Humanities and Social Sciences and Centre for Energy and Environment. The Six centres are Centre of Excellence in Design, Materials Research Centre (MRC), Centre for Development of Stones, Advanced Research Centre for Tribology, National Centre for Disaster Mitigation and Management and Data Centre.

The Institute offers eight undergraduate and 26 postgraduate programmes. The details of postgraduate programmes with their date of commencement are as under:



S. No.	Department	Programme	Year of starting
1.	Centre for Energy & Environment	Renewable Energy	2013
2.	Chemical Engineering	Chemical Engineering	2006
3.	Civil Engineering	Environmental Engineering	1989
4.	Civil Engineering	Water Resources Engineering	1985
5.	Civil Engineering	CAD/Structural Engineering	1996/2006
6.	Civil Engineering	Transportation Engineering	1996
7.	Civil Engineering	Disaster Assessment and Mitigation	2010
8.	Computer Science & Engineering	Computer Engineering	2008
9.	Electrical Engineering	Power Systems	1987
10.	Electrical Engineering	Power Electronics & Drives	2015
11.	Electronic & Communication Engg	VLSI Design	2006
12.	Electronic & Communication Engg	Wireless & Optical Communication	2014
13.	Electronic & Communication Engg	Embedded System	2014
14.	Electronics & Communication Engineering	Electronics & Communication Engineering	1992
15.	Mechanical Engineering	Manufacturing System Engg./ Industrial Engineering	1996/2013
16.	Mechanical Engineering	Energy/Thermal Engineering	2006/2013
17.	Mechanical Engineering	Production Engineering	2013
18.	Mechanical Engineering	Design Engineering	2013
19.	Metallurgical & Materials Engg.	Non Ferrous Met./Metallurgical & Materials Engg	1971/2006
20.	Metallurgical & Materials Engg.	Steel Technology	2013
21.	Architecture & Planning	Urban Planning	2008
22.	National Centre of Disaster Mitigation & Management	Earthquake Engineering	2015
23.	Chemistry	Applied Chemistry	2006
24.	Mathematics	Applied Mathematics	2006
25.	Physics	Applied Physics	2006
26.	Management Studies	MMS/M.B.A.	1996/2006

The bedrock of any academic institution is the quality of its faculty and in this arena, MNIT is at the forefront. Our 198 full-time experienced faculties have a passion for teaching and an avowed commitment to R&D. The global perspective of the faculty makes the Institute a premier institute of learning in India. Majority of the faculty hold doctoral degrees. Quality teaching is what we aim at so as to stimulate intellectual curiosity, creativity and innovativeness. The Institute is actively engaged in research, consultancy and developmental activities and collaborates with leading industrial houses and IT companies under various projects.

The institute is a part of the World Bank supported Technical Education Quality Improvement Programme (TEQIP) phase II implemented by the National Project Implementation Unit (NPIU).

The performance of institute in phase I of the project has been creditable.

The Institute has residential facilities for boys as well as girls in its campus. The hostel facility to the maximum extent of accommodation available is also provided to the students of the Institute.

2.2 LOCATION

The Institute is based in Jaipur which is a lively and vibrant city. Situated in Northern India at a distance of around 260 km south of Delhi, Jaipur would have been a part of the Thar Desert, but for the Aravalli Hills that provide it with much needed security from one side. Jaipur offers a multitude of interesting places and attractions. Such as lush parks and places for recreation. There are several magnificent places and forts such as the City Place, Amber and Nahargarh. It is a city of fun, food and festivals. Vibrant colours, lively folk music and dance performances mark the celebrations of every religious occasion and every change of season. It is, indeed, the 'Pink City', a heady mix of tradition & modernity, vibrant with recreational, social as well as educational experiences for the students. It has all the facilities and entertainment a student needs; excellent shops, restaurants, clubs, sports facilities and a thriving cultural scene.

The Institute is located in Malaviya Nagar on Jawahar Lal Nehru Marg. The main Railway Station and Bus Stand are approximately 10 km from the Institute whereas the Airport is about 5 km away located at Sanganer. Frequent city transport and private transport services are available for the Institute from every point of the city.

2.3 CAMPUS

The Campus of the institute is spread over an area of 125 hectares. It presents a spectacle of harmony in modern architecture, natural beauty and picture. The campus area has been organized into three functional sectors:

- ∂ Hostels for Students
- ∂ Instructional Buildings
- ∂ Residential Sector for the Staff

The instructional buildings have been so located that these are fairly near to both the hostels and the staff quarters and are at a walking distance from both. There is a branch of ICICI Bank on the premises and a Post-office in the campus. A full-fledged dispensary is supervised by a team of Medical Officers and two Compounders. The Institute has also been extending facility of a Part-time Homeopathic doctor and Ayurvedic doctor in the campus. Adequately equipped Canteen buildings, one near the instructional zone and another near the hostels provide facilities to the students and the staff during and beyond the working hours of the Institute.

2.4 ADMINISTRATION

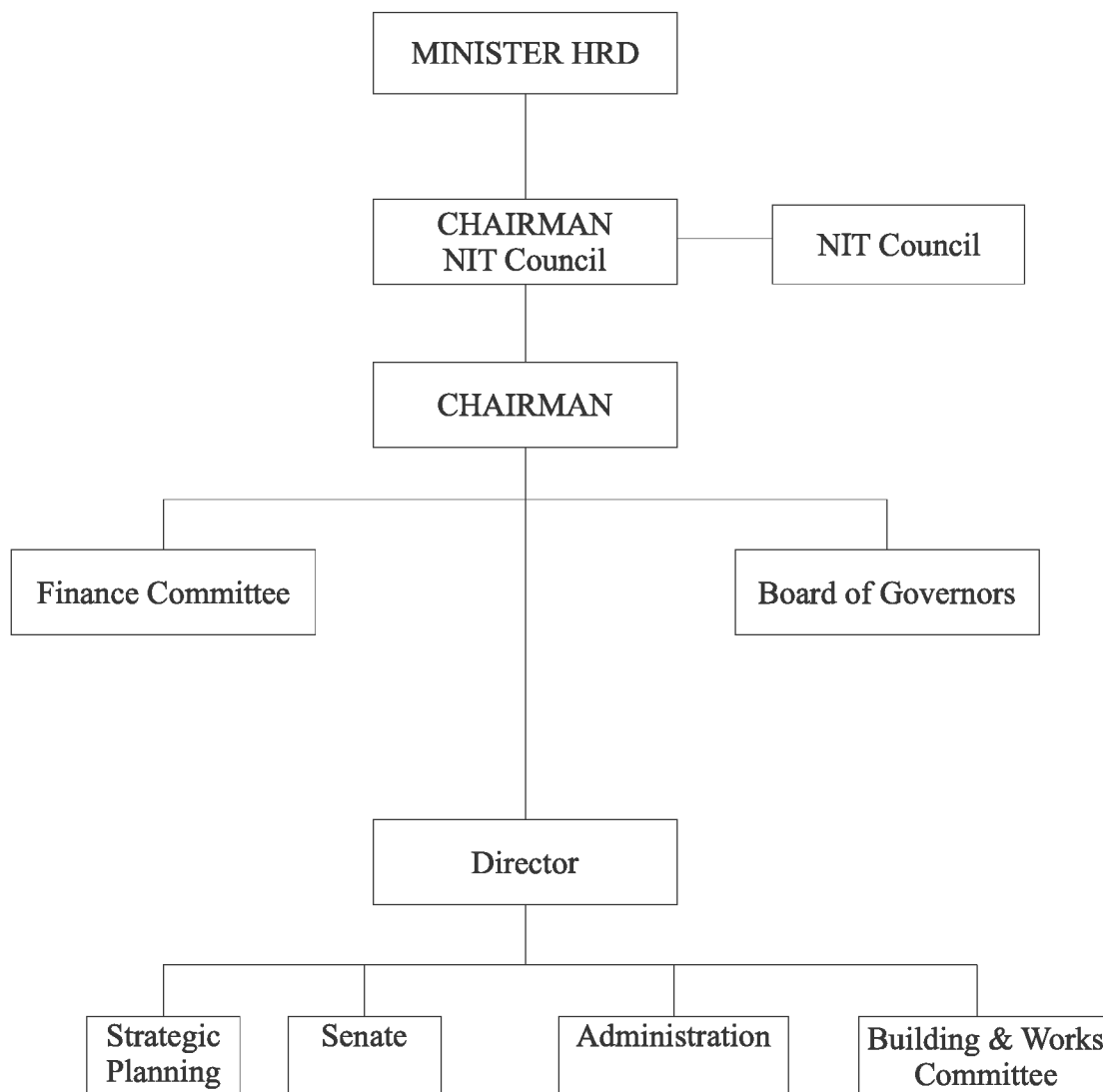
The Institute, being an autonomous Institution, is administered by Board of Governors, which consists of (i) Chairperson (appointed by Visitor) (ii) the Director, *ex officio* (iii) two persons not below the rank of Joint Secretary to the Government of India to be nominated by the central Government from amongst persons dealing with technical education and finance, (iv) two persons to be nominated by the Government of the state in which the institution is situated, from amongst persons who, in the opinion of that Government are technologists or Industrialists of repute, (v) two persons, at least one of whom shall be a woman having



special knowledge or practical experience in respect of education, engineering or science to be nominated by the Council; (vi) one professor and one assistant professor or a lecturer of the institute to be nominated by the Senate and (vii) The Director of the Indian Institute of Technology in whose zone the Institute is located, or his nominee, not below the rank of a Professor.

The students are given opportunity to administer their own affairs affecting the co-curricular residential and recreational activities through various committees, such as Institute Canteen Committee, Students' Aid and Welfare committee, Hostels and Mess committee etc.

Administrative Hierarchy of MNIT Jaipur





2.5 ACADEMIC PROGRAMMES

Course offered

At present the Institute offers four-year UG courses leading to the B. Tech. degree and five years of Bachelor of Architecture degree. The PG courses of two years duration provide advance learning of the specialized area and thus prepare a human resource possessing advance knowledge in the field of engineering, Science and technology. The Institute also offers a full-time/part-time advance programme leading to the Ph.D. degree in the areas of Engineering/Technology/Management/Sciences/Humanities & Social Sciences.

(a) Undergraduate Programmes (Bachelor of Technology/Architecture)

Academic Programmes leading to B. Tech. /B. Arch. Degree are as noted below

S. No.	Discipline/Duration	No. of Seats
1.	Architecture & Planning (5 years)	62
2.	Civil Engg. (4 years)	92
3.	Chemical Engg. (4 years)	92
4.	Computer Science & Engineering (4 years)	93
5.	Electrical Engg. (4 years)	93
6.	Electronics & Communication Engg. (4 years)	93
7.	Mechanical Engg. (4 years)	93
8.	Metallurgical & Materials Engg. (4 years)	92
	Total	710

(b) Postgraduate Programmes (Master of Technology/Science/Management)

Academic Programmes leading to M. Tech. /M.B.A. /M.Sc. Degree are as noted below

S. No.	Title of Course	Department Offering the Programmes
1.	M. Planning in Urban Planning	Architecture
2.	M.Tech. in Water Resource Engineering	Civil Engg.
3.	M. Tech. in Environmental Engineering	Civil Engg.
4.	M.Tech. in Transportation Engineering	Civil Engg.
5.	M.Tech. in Structural Engineering	Civil Engg.
6.	M. Tech. in Disaster Assessment and Mitigation	Civil Engg.
7.	M.Tech. in Chemical Engineering	Chemical Engg.
8.	M. Tech. in Computer Engineering	Computer Engg.
9.	M.Tech. in Renewable Energy	Centre for Env. & Energy
10.	M. Tech. in Power Systems	Electrical Engg.
11.	M. Tech in Power Electronics & Drives	Electrical Engg.



S. No.	Title of Course	Department Offering the Programmes
12.	M. Tech. in Electronics and Comm. Engg.	Electronics & Comm. Engg.
13.	M. Tech. in VLSI Design	Electronics & Comm. Engg.
14.	M.Tech. in Wireless & Optical Communication	Electronics & Comm. Engg.
15.	M. Tech. in Embedded System	Electronics & Comm. Engg.
16.	M.Tech. in Industrial Engineering	Mechanical Engg.
17.	M. Tech. in Energy Engineering	Mechanical Engg.
18.	M.Tech. in Production Engg.	Mechanical Engg.
19.	M. Tech. in Design Engg.	Mechanical Engg.
20.	M. Tech. in Metallurgical & Materials Engg.	Metallurgical & Materials Engg.
21.	M. Tech. in Steel Technology	Metallurgical & Materials Engg.
22.	M. Sc. in Applied Chemistry	Chemistry Dept.
23.	M. Sc. in Applied Mathematics	Mathematics Dept.
24.	M. Sc. in Applied Physics	Physics Dept.
25.	Master of Business Administration (MBA)	Management Studies Dept.
26.	M. Tech in Earthquake Engineering	National Centre of Disaster Mitigation & Management

2.6 ADMISSION PROCEDURE

(a) Undergraduate Programmes

The admission is made through JEE (Main) conducted by the Central Seat Allocation Board i.e. CSAB and after online centralized counseling of JoSAA (Joint Seat Allocation Authority) on behalf of the Ministry of Human Resource Development, Govt. of India, New Delhi. The minimum academic qualification for admission through JEE (Main) is a pass in the final examination of 10+2 (Class XII) or its equivalent. Foreign students are admitted through DASA, ICCR and MEA.

(b) Postgraduate Programmes

Admissions for M. Tech/M.Plan. are done (i) for full time through score in GATE conducted by IIT through CCMT counselling and (ii) for sponsored candidates, whether full time or part time, through interview/test/GATE (depending on availability of seats)/Admissions to full time and part time (iii) M.Sc. admission are done through CCMN (Centralized Counseling for M.Sc./M.Sc. (Tech.) Admissions to NITs and CFTIs) (iv) MBA & Ph.D. programmes are done through interview/tests conducted by individual Department.

2.7 STUDENTS INTAKE

(a) Undergraduate Programmes

The allocation of 710 seats for students from Rajasthan & other than Rajasthan states for the session 2015-16 are as follows



Malaviya National Institute of Technology Jaipur											
	Degree	Branch	OP	OPPH	SC	SCPH	ST	STPH	OBC	OBCPH	Total
All India CAI	B.Arch.	Architecture	15	1	5	0	2	0	8	0	31
	B.Tech.	Civil Engg.	23	0	7	0	3	1	12	0	46
	B.Tech.	Chemical Engg.	23	0	6	1	4	0	12	0	46
	B.Tech.	Computer Science & Engg.	23	1	7	0	3	0	12	1	47
	B.Tech.	Electrical Engg.	22	1	7	0	4	0	13	0	47
	B.Tech.	Electronics & Communication Engg.	23	0	7	0	3	0	12	1	46
	B.Tech.	Mechanical Engg.	22	1	6	1	4	0	12	0	46
	B.Tech.	Metallurgical & Materials Engg.	22	1	7	0	3	0	13	0	46
		TOTAL (A)		173	5	52	2	26	1	94	2
Home State (HS)	B.Arch.	Architecture	15	0	4	0	2	1	9	0	31
	B.Tech.	Civil Engg.	22	1	7	0	3	0	12	1	46
	B.Tech.	Chemical Engg.	22	1	7	0	3	0	13	0	46
	B.Tech.	Computer Science & Engg.	22	1	7	0	4	0	12	0	46
	B.Tech.	Electrical Engg.	23	0	6	1	3	0	12	1	46
	B.Tech.	Electronics & Communication Engg.	23	1	7	0	4	0	12	0	47
	B.Tech.	Mechanical Engg.	23	0	7	0	3	0	13	1	47
	B.Tech.	Metallurgical & Materials Engg.	22	1	6	1	4	0	12	0	46
		TOTAL (B)		172	5	51	2	26	1	95	3
GRAND TOTAL (A+B)			345	10	103	4	52	2	189	5	710

The allocation of 20 seats for students from Foreign Nationals through Indian Council for Cultural Relations (ICCR) & Ministry of External Affairs in UG programmes for the session 2015-16

Programme/Duration	MEA (Edu. Wel.)	ICCR	Total
Architecture (5 years)	-	2	2
Civil Engg. (4 years)	1	5	6
Chemical Engg. (4 years)	1	1	2
Computer Science & Engg. (4 years)	-	-	-
Electrical Engg. (4 years)	-	4	4
Electronics & Communication Engg. (4 years)	1	1	2
Information Technology (4 years)	-	-	-
Mechanical Engg. (4 years)	1	3	4
Metallurgical & Materials Engg. (4 years)	-	-	-
TOTAL	4	16	20



The allocation of 55 seats for students from DASA Scheme in UG programmes in 2015-16

Programme/Duration	Approved Annual Intake
Architecture (5 years)	04
Civil Engg. (4 years)	07
Chemical Engg. (4 years)	03
Computer Science and Engg. (4 years)	10
Electrical Engg. (4 years)	07
Electronics & Communication Engg. (4 years)	11
Mechanical Engg. (4 years)	10
Metallurgical & Materials Engg. (4 years)	03
TOTAL	55

(b) Postgraduate Programmes

Statement showing the intake capacity (branch wise) for admission to Postgraduate programmes for the year 2015-16

S. No.	Programme	OC	OB	SC	ST	OC-PWD	OB-PWD	SC-PWD	ST-PWD	Sponsored	PT	Total
1.	Urban Planning	10	5	3	2	0	0	0	0	5	6	31
2.	Renewable Energy	10	5	3	2	0	1	0	0	5	6	32
3.	Chemical Engg.	10	5	3	2	0	0	1	0	5	6	32
4.	Disaster Assessment and Mitigation	8	3	2	1	1	0	0	0	5	6	26
5.	Earthquake Engg.	8	4	2	1	0	0	0	0	0	0	15
6.	Environmental Engg.	8	3	2	1	1	0	0	0	5	6	26
7.	Structural Engg.	8	3	2	1	0	1	0	0	5	6	26
8.	Transportation Engg.	8	3	2	1	0	0	0	1	5	6	26
9.	Water Resources Engg.	8	3	2	1	0	0	0	0	5	6	25
10.	Computer Engg.	10	5	3	2	1	0	0	0	5	6	32
11.	Power Electronics & Drives	10	5	3	2	0	0	0	0	0	0	20
12.	Power Systems	10	5	3	2	0	0	0	0	5	6	31
13.	Electronics & Communication Engg.	10	5	3	2	0	0	1	0	5	6	32
14.	Embedded Systems	10	5	3	2	0	0	0	0	0	0	20
15.	VLSI Design	10	5	3	2	1	0	0	0	5	6	32



S. No.	Programme	OC	OB	SC	ST	OC-PWD	OB-PWD	SC-PWD	ST-PWD	Sponsored	PT	Total
16.	Wireless & Optical Communication	10	5	3	2	0	0	0	0	0	0	20
17.	Design Engg.	8	3	2	1	1	0	0	0	0	0	15
18.	Industrial Engg.	10	5	3	2	0	1	0	0	5	6	32
19.	Production Engg.	8	3	2	1	0	0	0	0	0	0	14
20.	Thermal Engg.	8	4	2	1	0	0	0	0	0	0	15
21.	Metallurgical & Materials Engg.	10	5	3	2	0	0	0	0	5	6	31
22.	Steel Technology	8	3	2	1	0	0	0	0	5	6	25
	Total	200	92	56	34	5	3	2	1	75	90	558

S. No.	Programme	OC	OB	SC	ST	OC-PWD	OB-PWD	SC-PWD	ST-PWD	Total
1.	M.Sc. in Applied Physics	16	8	5	2	1	0	0	0	32
2.	M.Sc. in Applied Chemistry	16	8	5	2	0	0	1	0	32
3.	M.Sc. in Applied Mathematics	16	8	5	2	0	0	0	1	32
	Total	48	24	15	6	1	0	1	1	96

S. No.	Programme	OC	OB	SC	ST	OC-PWD	OB-PWD	SC-PWD	ST-PWD	Total
1.	MBA	31	17	09	05	1	0	1	0	64
	Total	31	17	9	5	1	0	1	0	64

Intake of Foreign Nationals under the DASA Scheme in PG programmes in 2015-16

S. No.	Programmes	Intake
1.	M. Planning in Urban Planning	2
2.	Chemical Engineering	2
3.	Computer Science & Engineering	2
4.	Electronics & Comm. Engg.	2
5.	Industrial Engg.	2
6.	Metallurgical & Materials Engg.	2
7.	Power Systems	2
8.	Structural Engg.	2
9.	Thermal Engineering	2
10.	Transportation Engg.	2
11.	VLSI Design	2
12.	M.B.A.	5
	TOTAL	27



RESERVATION IN B.TECH/M. TECH./M.Sc./MBA PROGRAMMES

- (i) OBC 27% in every course
- (ii) Schedule Castes 15 % in every course
- (iii) Schedule Tribes 7.5% in every course
- (iv) Physical Handicapped 3 % in every course over & above the sanctioned strength

Duration of M. Tech./M.Plan. Programmes

Normal duration	Maximum duration
Full Time: 4 Semesters	6 Semesters
Part Time: 6 Semesters	10 Semesters

Duration of M. Sc./MBA Programme

Normal duration	Maximum duration
Full Time: 4 Semesters	6 Semesters

2.8 EXAMINATION AND EVALUATION

Credits System

Education at the Institute is organized around the credit system of study. The prominent feature of the credit system is process of continuous evaluation of a student's performance, and a flexibility to allow a student to progress at an optimum pace suited to his/her ability or convenience subject to fulfilling minimum requirement for continuation.

Each course has a certain number of credits, which describe its weightage. A student's performance is measured by the number of credits that he/she has completed satisfactorily. A minimum Grade Point Average is required to be maintained for satisfactory process. Also a minimum number of earned credits should be obtained in order to qualify for the degree.

Every course is co-ordinated by a member of the teaching staff of the department, which offers the course in a given semester. This faculty member is called the Course Co-ordinator. He/She has full responsibility for conducting the course, co-ordinating the work of the other members of the faculty involved in that course and for holding tests and assignments and awarding grades. For any difficulty a student is expected to approach the Course Co-ordinator for advice and clarification.

Grading System

The grades are being awarded as per the Table noted

Structure of grading of academic performance



Academic Performance	Grades	Grade
Outstanding	AA	10
Excellent	AB	9
Very Good	BB	8
Good	BC	7
Average	CC	6
Below Average	CD	5
Marginal	D	4
Fail	F	0
Work in Progress	IW	-
Withdrawal	W	-
Waiver	WR	-
Satisfactory/unsatisfactory	S/X	-

The following abbreviations are also used against a subject, wherever required:

(REP): for repeating a paper in which grade F was obtained earlier

(SUB): for substituting an elective course by other elective course

(IMP): for improving grade in a course

(GNI): grade not included in calculation of CGPA & SGPA

2.9 PLACEMENT

The Placement Cell has been active in arranging training and placement for students. This year a total of 95 companies visited the Campus and selected 516 (432 B.Tech, 68 M.Tech. and 16 MBA) students. Highest and Average Packages offered by companies were Rs. 25.00 LPA to 4 students of Computer Science & Engineering including one student was given Pre Placement Offers (PPOs), and the average package of placed students (B.Tech) was 5.77 LPA.

2.10 GAMES AND SPORTS

Participation of students in tournaments and results:

1. All India Inter NIT Athletic & Gym Competition 2015-16, held at MNIT Jaipur: overall second position.
2. Udhgosh-15 held at IIT Kanpur: satisfactory results.
3. BOSM -15 held at BITS Pilani: Won silver medal in badminton girls and two medals in Athletics.
4. All India Inter NIT Tournaments 2015-16, (Volleyball, Badminton and Tennis) held at NIT Surat. Satisfactory results.
5. All India Inter NIT Tournament 2015-16 (basketball and cricket) held at NIT Calicut: Satisfactory performance.



Activities organized by Institute:

1. Annual Athletic Meet 2015-16
2. MNIT Sports Tournament 2016
3. All India Inter NIT Athletic & Gym Competition 2015-16
4. Inter Branch Tournaments 2015-16 (Badminton, Basket ball, Cricket, Chess, Football, Volleyball, Gym, Tennis, and Table Tennis etc.)
5. Hong Kong Sixes Cricket Tournament 2016.
6. Intra Institute level Badminton Tournament -2015.
7. Mixed Volleyball, Badminton and Basketball Tournaments 2015.

2.11 STAFF POSITION

The staff position is as follows

Sanctioned Faculty strength	473
Faculty in Position (Including Director)	192
Administrative Staff in position	17
Ministerial Staff in position	66
Technical staff in position	133
Supporting Staff	68
Contractual Staff	34

Faculty awards

Faculty members of the Institute won several awards and many prestigious organizations have recognized the contributions of the faculty and honoured them. The details are given in Chapter 11.8

Research & Development

Research and Development at MNIT Jaipur is one of the focal point to achieve its vision of developing cutting edge technology to meet the current and future challenges of technological development. The rich experience and talents of the faculty, combined with their passion and dedication for research, development and consultancy in their respective areas has created excellent results. The focus on research is not limited to the faculty members in their laboratories of the Institute but is pervasive beyond it in classrooms and fields as reflected in its relevance and rigor in all academic programmes of the Institute.

The Research and Development activities are supervised by the Research and Consultancy Cell at MNIT headed by Dean – Research and Consultancy. The cell is established with the objective of fostering in the Institute an enabling environment conducive for promoting and encouraging research, consultancy and other extension and professional activities among faculty and students. The Office of Dean – Research and Consultancy (ODRC) monitors all externally and internally funded and sponsored research, professional consultancy and development activities.

THRUST AREAS

The major thrust areas of Research, Development and Consultancy at MNIT Jaipur includes:

- Nano-Technology
- Disaster Management
- Energy Conservation

- Industrial pollution
- Composite material
- Internet Security
- Productivity
- Water De-Flouridation
- Power Control Systems
- Smart Grid
- Photonic structures
- Polymer membrane
- Nitronic steel
- Bio-fuels
- Green buildings

RESEARCH CONSULTANCY AND DEVELOPMENT HIGHLIGHTS (LAST 5 YEARS 2010-15)

- On-going projects worth Rs. 32.85 crores
- High value projects worth Rs. 15.15 crores
- Industrial consultancy Rs. 12.86 crores

CONSULTANCY ACTIVITIES

The Institute encourages its faculty to undertake professional consultancy assignments in their areas of expertise. Such professional assignments have steadily increased over last few years, both in terms of numbers as well as value.

Exhibit 1. Number of professional consultancy assignments during last four years

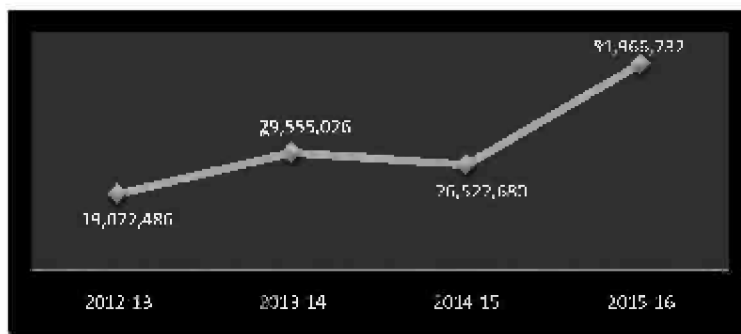
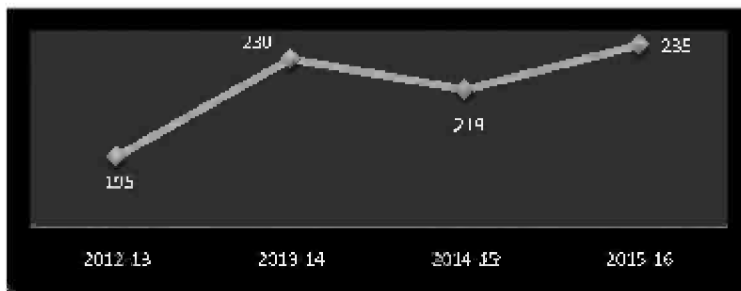


Exhibit 2. Value (in Rs.) of professional consultancy assignments during last four years



3.0 THE STAFF

3.1 Academic staff (Teaching - As on 31.03.2016)

Designation	Name	Qualification
Director	Prof. I.K. Bhat	Ph.D.

DEPARTMENT OF ARCHITECTURE

Designation	Name		Qualification
Professor	1	Shri Alok Ranjan	B.Arch., M.U.R.P.(Hons.)
	2	Shri Rajeev Shringi	B.Arch. , M. Plng. (UrbanPlanning)
Associate Professor	1	Ms. Rina Surana	B.Arch., M. Arch. (Urban Design)
	2	Shri R.N. Sharma	B.Arch., M.U.P.,M. Plan
	3	Mrs. Kalpana Pandit	B.Arch., M.U.P., M. Plan
	4	Shri Tarush Chandra	B. Arch., P.G. Dip. Plng. (Urban & Regional Plan)
	5	Mrs. Meenu Varshney	B.ArchM.Plan.
Assistant Professor	1	Dr. Satish Pipralia	B.Arch., MURP Ph. D.
	2	Dr. Nand Kumar	B.Arch., M. Arch.Ph.D
	3	Shri Nischal Jain	B. Arch., M.Des.
	4	Ms. Pooja Nigam	B.Arch., M. Plan
	5	Ms. Niruti Gupta	B.Arch., M. Plan
	6	Dr. Ashwani Kumar	B.Arch., M. Plan, Ph. D.

DEPARTMENT OF CHEMICAL ENGINEERING

Designation	Name		Qualification
Professor	1	Dr. S.P. Chaurasia	B.Tech., M.Tech., Ph.D.
	2	Dr. Alok Gupta	B.Tech., M.Tech., Ph.D.

Associate Professor	1	Dr. R.K. Vyas	B.E., M.E., Ph.D.
	2	Dr. Prabhat Pandit	B.Tech., M.Tech., Ph.D.
	3	Dr. S.K. Jana	B.Tech., M.Tech., Ph.D.
	4	Dr.(Mrs.) Suja George	B. Tech., M.Tech. Ph.D.
	5	Dr. Kailash Singh	B. E., M.Tech. Ph.D.
Assistant Professor	1	Dr. Manish Vashistha	B. E., M.Tech. Ph.D.
	2	Dr. (Mrs.) Madhu Agarwal	B. Tech., M.Tech. Ph.D.
	3	Dr. Sushant Upadhyay	B. Tech., M.Tech., Ph.D.
	4	Dr. Rajeev Kumar Dohre	B. Tech., M.Tech., Ph.D.
	5	Shri Shiv Om Meena	M.Tech.
	6	Dr. U.K.Arun Kumar	B. E., M.E, Ph.D.
	7	Dr. Virendra Kumar Saharan	B. E., M.Tech. Ph.D.
	8	Dr. Subbaramaiah V.	B.Tech., M.Tech., Ph.D
	9	Dr. Dipaloy Datta	B.E., M.E., Ph.D

DEPARTMENT OF CIVIL ENGINEERING

Designation	Name		Qualification
Professor	1	Dr. A.B. Gupta	B.E., M.Tech., Ph.D.
	2	Dr. Y.P. Mathur	B.E., M.E., Ph.D.
	3	Dr. B.L. Swami	A.M.I.E., M.E., Ph.D.
	4	Dr. Rohit Goyal	B.E., M.E., Ph.D.
	5	Dr. Gunwant Sharma	B.E., M.Tech., Ph.D.



Designation	Name		Qualification
	6	Dr. A.K. Vyas	B.E., M.E. , Ph.D.
	7	Dr. Sudhir Kumar	B.E., M.E., Ph.D.
	8	Dr. Ravindra Nagar	B.E., M.Tech., Ph. D.
	9	Dr. R.C. Gupta	B.E., M.E., Ph.D.
	10	Dr. M.K. Shrimali	B.E., M. Tech., Ph.D.
Associate Professor	1.	Dr. J.K. Jain	B.E., M.E. Ph. D.
	2	Dr. (Mrs.) Urmilā Brighu	B.E., M.Tech., Ph.D.
	3	Dr. Sanjay Mathur	B.E., M.E., Ph.D.
	4	Dr. Sandeep Choudhary	B.E., M.E.Ph.D.
	5	Dr. S.K. Tiwari	B.E., M.Tech., Ph. D.
	6	Dr. S.D. Bharti	B.E., M.TechPh.D.
	7	Dr. Rajesh Gupta	B.E., M.E.,Ph.D.
	8	Dr. Mahesh Kumar Jat	B.E., M.E. , Ph.D.
	9	Dr. Mahendra Choudhary	B.E.,M. E, Ph.D.
	10	Dr. Ajay Singh Jethoo (On deputation at Govt. Women Engineering College, Ajmer)	B.E., M.E., Ph.D.
Assistant Professor	1	Dr. (Mrs.) Nivedita Koul	B.E., M. EPh.D.
	2	Dr. Pawan Kalla	B.E.,M. E.Ph.D.
	3	Dr. Arun Gaur	B.E.,M. E.,Ph.D.
	4	Dr. Sumit Khandelwal	B.E., M.E. Ph.D.
	5	Dr. Vinay Agarwal	B.E., M.EPh.D.
	6	Dr. Pandit Venkata Ramana	M. Tech., Ph.D.
	7	Dr. Sandeep Shrivastava	M. Tech., Ph.D.
	8	Dr. Putul Haldar	M. Tech., Ph.D.
	9	Dr. Rajib Sarkar	BE, M. Tech., Ph.D.

DEPARTMENT OF COMPUTER ENGINEERING

Designation	Name		Qualification
Professor	1	Dr. M.C. Govil	B.E., M.E., Ph.D.
	2	Dr. M.S. Gaur	B.E., M.E., Ph.D.
Associate Professor	1	Dr. Girdhari Singh	B.E., M.S. (Software), Ph.D.
	2	Dr.(Mrs) Vijay Laxmi	B.E., M.Tech., Ph.D.
Assistant Professor	1	Dr. (Mrs.) Neeta Nain	M.C.A.Ph.D.
	2	Dr. (Mrs.) Namita Mittal	M.C.A.Ph.D.
	3	Dr. Dinesh Goplani	B.E. M.TechPh.D.
	4	Dr. Mushtaq Ahmed	B.E, Ph.D.
	5	Dr. (Mrs.) Meenkshi Tripathi	M.Tech, Ph.D.
	6	Dr. Yogesh Kumar Meena	M.Tech, Ph.D
	7	Shri Ramesh Babu Battula	M.Tech
	8	Dr. A.K.Mazumdar	B.E., M.Tech., Ph.D
	9	Shri Dinesh Kumar Tyagi	B.E., M.Tech.
	10	Dr. Emmanuel Shubhankar Pilli	B.E., M.Tech., Ph. D.
	11	Dr. Santosh Kumar Vipparthi	B.E., M.Tech., Ph.D

DEPARTMENT OF ELECTRICAL ENGINEERING

Designation	Name		Qualification
Professor	1	Dr R. A. Gupta	B.E., M.E., Ph.D.
	2	Dr. K.R. Niazi	B.E.,M.E., Ph.D.
	3	Dr. Manoj Fozdar	B.Sc.(Engg.), M.Sc. (Engg.), Ph.D.
Associate Professor	1	Shri A.K. Agarwal	B.E., M.Tech.
	2	Mrs. Nikita Jhajharia	B.E., M.E.
	3	Shri V.K. Jain	B.E., M.E.



Designation	Name		Qualification
	4	Dr. Vikas Gupta	B.E., M.E., Ph.D.
	5	Shri V.S. Pareek	B.E., M.E.
	6	Shri P.K. Agarwal	B.E., M.E.
	7	Dr. Harpal Tiwari	B.E., M.E., Ph.D.
	8	Dr. Rajesh Kumar	B.E., M.E. Ph.D.
	9	Dr. Rajiv Tiwari	B.E., M. E., Ph.D.
Assistant Professor	1	Shri Mukesh Kumar Shah	B.E., M.Tech.
	2	Dr. Nikhil Gupta	B.E., M.Tech. Ph.D.
	3	Dr. Anil Swarnkar	B.E. , M.Tech. Ph.D.
	4	Dr. (Mrs.) Prerna Jain	B.E., M.E., Ph.D.
	5	Dr. Rohit Bhakar	B.E. M.E., Ph.D
	6	Dr. (Mrs.) Kusum Verma	B.E. , M.Tech., Ph.D
	7	Dr. Nitin Gupta	B.E. , M.Tech., Ph.D
	8	Shri Hemant Meena	B. Tech., M. Tech.,
	9	Dr. Dipti Saxena	B. Tech., M. Tech., Ph.D
	10	Dr. Vijay Kumar K	B.E. , M.Tech., Ph.D
	11	Dr. Neeli Satyanarayana	B.Tech., M.E., Ph.D

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Designation	Name		Qualification
Professor	1	Dr. R.P. Yadav	M.Sc., M.Tech., Ph.D.
	2	Dr. Vineet Sahula	B.E., M.Tech., Ph.D.
	3	Dr. K.K. Sharma	B.E., M.E. Ph.D.
	4	Dr. D. Boolchandani	B.E., M.Tech., Ph.D.



Designation	Name		Qualification
Associate Professor	1	Shri Sanjeev Agarwal	B.E., M.Tech.
	2	Dr. Mohd. Salim	B.E., M.Tech., Ph.D.
	3	Shri Rakesh Bairathi	B.E., M.Tech.
	4	Shri Tarun Verma	B.E., M.E.
	5	Dr. Lava Bhargava	B.E., M.E., Ph.D.
	6	Dr. Vijay Janyani	B.E., M.E., Ph.D.
	7	Dr. Ghanshyam Singh	B.E. ,M.Tech., Ph.D.
	8	Dr. M.M. Sharma	B.E., M.Tech., Ph.D.
	1	Dr. Ritu Sharma	B.E. , M.Tech.,Ph.D.
	2	Shri Ashish Kumar Ghunawat	M.Tech.
	3	Dr. C.Periasawmy	B.E. ,M.Tech., Ph.D.
	4	Dr. Amit Mahesh Joshi	B.E. , M.Tech.Ph.D.
	5	Dr. Ravi Kumar Maddila	B.E. ,M.Tech., Ph.D.
	6	Dr. Satya Sai Jaganath Nanda	B.E. ,M.Tech., Ph.D.

DEPARTMENT OF MECHANICAL ENGINEERING

Designation		Name	Qualification
Professor	1	Dr. Gopal Agarwal	B.E., M.E., Ph.D.
	2	Dr. S.L. Soni	B.E., M.Tech., Ph.D.
	3	Dr. A.P.S. Rathore	B.E., M.B.A., Ph.D.
	4	Dr Rakesh Jain	BE., P.G.D.I.E. Ph.D.
	5	Dr. G.S. Dangayach	B.E., M.Tech., Ph.D.
	6	Dr. Jyotirmay Mathur	B.E., M. Tech., Ph.D.
	7	Dr. A.K. Bhardwaj	B.E., M.E., Ph.D.
	8	Dr. Dilip Sharma	B.E., M.E.Ph.D.
	9	Dr. M.P. Poonia (on deputation at NITTTR, Chandigarh)	B.E., M.E., Ph.D.



Designation		Name	Qualification
Associate Professor	1	Dr. G.D. Agarwal	B.E., M.Tech. Ph.D.
	2	Dr. M.L. Mittal	B.E., M.E. Ph.D.
	3	Shri N.S.Yadav	B.E.
	4	Shri Amit Panchariya	B.E., M.Tech.
	5	Dr.T.C. Gupta	A.M.I.E., M.Tech., Ph.D
	6	Dr. Nirupam Rohtagi	B.E., M.E., Ph.D.
	7	Dr. Himanshu Choudhary	M. Tech., Ph.D.
Assistant Professor	1	Dr. Makhan Lal Meena	M.Tech.,Ph.D.
	2	Shri Mukesh Kumar	B.Tech., M. Tech.
	3	Ms. Anoj Meena	B.E., M.Tech
	4	Dr. Gunjan Soni	B.E., M.Tech.Ph.D.
	5	Dr. Harlal Singh Mali	B.E., M.Tech.Ph.D.
	6	Dr. Amit Kumar Singh	B.Tech, M.Tech.Ph.D.
	7	Dr. Dinesh Kumar	M.Tech. Ph.D.
	8	Dr. Amar Patnaik	B.E., M.Tech.Ph.D.

DEPARTMENT OF METALLURGICAL ENGINEERING

Designation		Name	Qualification
Professor	1	Dr. Ashok Sharma	B.Sc., B.E., M.E., Ph.D.
	2	Dr. P.R. Soni	M.Sc., M.E., Ph.D.
	3	Dr. A.K. Bhargava	B.E., M.E., Ph.D.
	4	Dr. Upendra Pandel	B.E., M.E., Ph.D.
Associate Professor	1	Dr. (Mrs.) Munan Mandira	M.Sc., M.E., Ph.D.
	2	Dr. N. C. Upadhyay	B.Tech. , M.E., Ph.D.

Designation	Name		Qualification
	3	Dr. Y.V.S.S. Prasad	B.E., M.Tech., Ph.D.
	4	Dr. V.K. Sharma	B.E., M.E., Ph.D.
	5	Dr. S.K. Gupta	B.E., M.E., Ph.D.
Assistant Professor	1	Dr. Rajendra Kumar Duchaniya	M.Tech, Ph.D.
	2	Dr. Vinod Kumar	B.Tech., M.Tech.Ph.D.
	3	Dr. Ajaya Kumar Pradhan	B.E., M.Tech., Ph..D.
	4	Dr. Vijay Navaratna Nadakuduru	B.E., M.Tech., Ph.D.
	5	Shri Krishna Kumar	B.Tech., M.E.

DEPARTMENT OF CHEMISTRY

Designation	Name		Qualification
Associate Professor	1	Dr. (Mrs.) Jyoti Joshi	M.Sc., Ph. D.
	2	Dr. (Ms.) Ragini Gupta	M.Sc., Ph. D.
Assistant Professor	1	Dr. Mukesh Jain	M.Sc., Ph. D.
	2	Dr. Raj Kumar Joshi	B.Sc., M.Sc., Ph. D.
	3	Dr. Sandeep Choudhary	B.Sc., M.Sc., Ph. D.
	4	Dr. Sumanta Kumar Meher	M. Phill, Ph. D
	5	Dr. Sumit Kumar Sonkar	M. Sc., Ph. D
	6	Dr. Pradeep Kumar	B.Sc., M.Sc., Ph.D.
	7	Dr. Biman Bandhopadhyay	B.Sc. (Hons.), M.Sc., Ph.D.

**DEPARTMENT OF HUMANITIES**

Designation	Name		Qualification
Associate Professor	1	Dr. V.S. Shekhawat	M.A., M.Phil., Ph. D.
	2	Dr.(Mrs.) Nupur Tandon	M.A., Ph. D.
	3	Mrs. Nanny Tripathi	M.A., M.Phil.
Assistant Professor	1	Dr. (Mrs.) Dipti Sharma	B.A., M.A., Ph.D.
	2	Dr. (Mrs.) Preeti Bhatt	B.Sc., M.A., Ph.D.

DEPARTMENT OF MATHEMATICS

Designation	Name		Qualification
Professor	1	Dr. K.C. Jain	M.Sc., Ph. D.
	2	Dr. (Mrs.) Rashmi Jain	M.Sc., Ph. D.
Associate Professor	1	Dr. (Mrs.) Nilama Gupta	M.Sc., Ph. D.
	2	Dr. (Mrs.) Vatsala Mathur	M.Sc., Ph. D.
	3	Dr. R.C. Soni	M.Sc., M.Phil, Ph. D.
Assistant Professor	1	Dr. Sanjay Bhattar	M.Sc., Ph. D.
	2	Dr. (Mrs.) Santosh Choudhary	M.Sc., M.Phil, B.ScPh. D.
	3	Dr. (Mrs.) Ritu Agarwal	B.Sc., M.Sc., M.Phil., Ph. D.
	4	Dr. Varun Jindal	B.Sc., M.Sc., Ph.D.

DEPARTMENT OF PHYSICS

Designation	Name		Qualification
Professor	1	Dr. S.K. Sharma	M.Sc., Ph. D.
Associate Professor	1	Dr. (Mrs.) K. Sachdev	M.Sc., Ph. D.
Assistant Professor	1	Dr. K.Venkataratnam Kamma	B.Sc., M.Sc., Ph.D.
	2	Dr. Srinivasa Rao Nelamarri	B.Sc., M.Sc., Ph.D.
	3	Dr. Rahul Singhal	B.Sc., M.Sc., Ph.D.
	4	Dr. Subhayan Mandal	B.Sc., M.Sc., Ph.D.
	5	Dr. Kamendra Awasthi	B.Sc., M.Sc., M.Phil., Ph.D.
	6	Dr. Ashok Kumar	B.Sc., M.Sc., Ph.D.
	7	Dr. Kavita Lalwani	B.Sc., M.Sc., M.Phil., Ph.D.

DEPARTMENT OF MANAGEMENT STUDIES

Designation	Name		Qualification
Professor	--		--
Associate Professor	--		--
Assistant Professor	1	Dr. Monika Sharma	BE, MBA, Ph.D.
	2	Dr. Satish Kumar	B.Com., MBA, Ph.D.
	3	Dr. Deepak Verma	MBA, Ph.D.

CENTRE FOR ENERGY & ENVIRONMENT

Designation	Name		Qualification
Professor	--		--
Associate Professor	--		--
Assistant Professor	1	Dr. Vivekanand	B.Sc., M.Sc, Ph.D.
	2	Dr. Amartya Chowdhary	B.Sc., M.Sc, Ph.D.
	3	Dr. Kapil Pareek	B.Sc., M.Sc, M.Tech., Ph.D.

SPORTS SECTION

Designation	Name	Qualification
Sports Officer	Dr. Subir Debnath	Ph.D.

PROFESSOR OF TRAINING AND PLACEMENT

Designation	Name	Qualification
Professor	Dr. S.L.Soni	B.E., M.Tech., Ph.D.

STEEL CHAIR PROFESSOR

Designation	Name	Qualification
Steel Chair Professor	Prof. M.K.Banerjee	Ph.D.

RESEARCH PROFESSOR

Designation	Name	Qualification
Research Professor	Prof. Sampad Biswas	Ph.D.

**ACADEMIC CHAIRPERSON**

Designation	Name	Qualification
Academic Chairperson	Prof. Vishwanath Sinha	Ph.D.

3.2 Non-Academic Staff (Non-Teaching as on 31.03.2016)**ADMINISTRATIVE & OTHER STAFF****(a) Chief Academic & Executive Officer**

S.No.	Designation	Name	Qualification
1	Director	Prof. I.K. Bhat	Ph.D.

(b) Administrative Staff

S.No.	Designation	Name	Qualification
1.	Registrar	Prof. M.K.Shrimali (Registrar Incharge)	B.E., M.Tech., Ph.D
2.	Assistant Registrar	1 Dr. (Mrs.) Suman Rathore	M.A., Ph.D.
		2 Shri Bhurendra Singh	B.A., L.L.B.
		3 Shri Deepak Maheshwari	M.Com.
		4 Shri Birbal Singh	M.Com., L.L.B.
		5 Shri Jayant Shirma	M.Com,
		6 Shri Rajkumar Dubey	M.Com, L.L.B.
3.	Executive Engineer	Shri Jitendra Dixit (On deputation)	-
4.	Assistant Executive Engineer	1 Shri C.M.Saini	AMIE
		2 Shri Pankaj Munjal (On deputation)	
6	Librarian	-	-
7	Deputy Librarian	-	-
8	Assistant Librarian	Shri Deep Singh	M.A., (Pub. Adm.) & M.L.I.Sc.

S.No.	Designation	Name	Qualification
9	Senior Medical Officer	Dr. Vandana Gupta (On deputation)	M.B.B.S.
10	Medical Officer	Dr. Virendra Singh Shekhawat (On deputation)	M.B.B.S.
11	Senior SAS Officer	-	-
12	SAS Officer	Dr. Virendra Singh	Ph.D.
13	Principal Scientific /Technical Officer	-	-
14	Senior Scientific /Technical Officer	Dr. Ashok Kumar Solanki (On deputation at IIT, Mandi, H.P.)	Ph.D.
15	Scientific /Technical Officer	Dr. Sanjay Rajpal	M.C.A., Ph.D.
		Mr. Mostashim Reza	B. Tech.
		Mr. Chetanya Prakash	Post M.S.C..
16	Security Officer	-	-

3.3 STATEMENT SHOWING THE STAFF POSITION

a) Academic Staff

S.No.	Designation	Sanctioned Strength	In position (On 31.3.2016)
1	Director	1	1
2	Professor	68	39
3	Associate Professor	135	60
4	Assistant Professor	270	92

a) Non –Teaching Staff

S. No.	Name of Cadre	Total sanctioned posts	Officers/ officials structured in the cadre
A.	Officers (10 percent of faculty strength)	47	17
1.	Registrar	1	0
2.	Deputy Registrar	5	0
3.	Assistant Registrar	16	6
4.	Executive Engineer	1	1
5.	Assistant Executive Engineer	3	2



S. No.	Name of Cadre	Total sanctioned posts	Officers/ officials structured in the cadre
6.	Librarian	1	--
7.	Deputy Librarian	1	--
8.	Assistant Librarian	3	1
9.	Senior Medical Officer	1	1
10.	Medical Officer	2	1
11.	Senior Student Activity and Sports (SAS) Officer	1	--
12.	Student Activity and Sports (SAS) Officer	2	2
13.	Principal Scientific/ Technical Officer	1	--
14.	Senior Scientific/ Technical Officer	2	1
15.	Scientific/ Technical Officer	5	2
16.	Security Officer	2	0
B.	Technical Higher (30 percent of faculty strength)	141	50
1.	PB-2 with grade pay of Rs 4200/-	57	41
2.	PB-2 with grade pay of Rs 4600/-	42	06
3.	PB-2 with grade pay of Rs 4800/-	28	03
4.	PB-2 with grade pay of Rs 5400/-	14	00
C.	Technical Lower (30 percent of faculty strength)	142	83
1.	PB-1 with grade pay of Rs 2000/-	57	60
2.	PB-1 with grade pay of Rs 2400/-	43	03
3.	PB-1 with grade pay of Rs 2800/-	28	07
4.	PB-2 with grade pay of Rs 4200/-	14	13
D.	Ministerial Higher (08 percent of faculty strength)	38	11
1.	PB-2 with grade pay of Rs 4200/-	17	09
2.	PB-2 with grade pay of Rs 4600/-	11	00
3.	PB-2 with grade pay of Rs 4800/-	06	02
4.	PB-2 with grade pay of Rs 5400/-	04	00
E.	Ministerial Lower (17 percent of faculty strength)	81	55
1.	PB-1 with grade pay of Rs 2000/-	33	22
2.	PB-1 with grade pay of Rs 2400/-	24	10
3.	PB-1 with grade pay of Rs 2800/-	16	00
4.	PB-2 with grade pay of Rs 4200/-	08	23
F.	Supporting Staff (15 percent of faculty strength)	71	68
1.	PB-1 with grade pay of Rs 1800/-	29	13
2.	PB-1 with grade pay of Rs 1900/-	21	16
3.	PB-1 with grade pay of Rs 2000/-	14	21
4.	PB-1 with grade pay of Rs 2400/-	07	18
	GRANT TOTAL (110 percent of faculty strength)	520	284

3.4 WORKING HOURS

The Institute during the year under report observed the following working hours:

1	Academic Departments	8.00 a.m. to 5.00 p.m. Monday to Friday
2	For employees working in the Administrative Block	9.30 a.m. to 6.00 p.m. Monday to Friday
3	Hostels	Round the clock (shift –wise)
4	Estate Department	8.00 a.m. to 5.00 p.m. on all the days of the week and on Sunday, a few members of the staff are called on duty to attend emergency services.
5	Library	Shift wise



4. TEACHING PROGRAMME

4.1 COURSES OFFERED

The Institute offers courses of study leading to Bachelor of Technology Degree in Chemical Engineering, Computer Science & Engineering, Civil Engineering, Electrical Engineering, Electronics & Communication Engineering, Mechanical Engineering, Metallurgical & Materials Engineering and B. Architecture in Architecture & Planning. Full Time/Part Time Master of Technology Degrees in Chemical Engg. (Chemical Engg. Dept.), Computer Engg. (Computer Science and Engg. Dept.), Environmental Engineering, Disaster Assessment and Mitigation, Structural Engg. Transportation Engg. and Water Resources Engineering (Civil Engg. Dept.), Power Systems, Power Electronics & Drives (Electrical Engg. Dept.), Electronics & Communication Engg. VLSI Design, Embedded System, Wireless & Optical Communication (Electronics & Comm. Engg. Dept.), Industrial Engg. Thermal Engg, Production Engg. Design Engg. (Mechanical Engg. Dept.), Metallurgical & Materials Engg. Steel Technology (Metallurgical & Materials Engg. Dept.), Renewable Energy (Centre for Energy & Environmental Dept.), Earthquake Engg. (National Centre of Disaster Mitigation & Management), M. Planning [Urban Planning] (Architecture & Planning Dept.), Master of Science in Applied Physics , .Applied Chemistry and Applied Mathematics are offered by respective Sciences Depts. Full time and M.B.A. Programme is offered by Department of Management Studies.

The medium of instruction and examination is **English**.

4.2 COURSE-WISE ENROLMENT

Course-Wise Enrolment of undergraduate B.Tech./B. Arch. Programme through CSAB, DASA, ICCR and MEA during the session 2015-16.

Programme	Branch	5 th Year & Back	4 th Year	3 rd Year	2 nd Year	1 st Year	Total
B.Arch.	Architecture	59	60	55	57	61	292
B.Tech.	Civil Engg.	1	97	90	89	100	377
	Chemical Engg.	6	87	85	90	95	363
	Computer Science & Engg.	1	107	103	97	100	408
	Electrical Engg.	7	93	91	95	94	380
	Electronics & Communication Engg.	7	99	99	105	104	414
	Information Technology	1	0	0	0	0	1
	Mechanical Engg.	11	102	104	101	102	420
	Metallurgical & Materials Engg.	9	89	82	84	85	349
		102	734	709	718	741	3004

Course-Wise Enrolment of postgraduate Programme 2015-16

S. No.	Programme	I Year 2015	2 nd Year 2014	3 rd Year 2013	Back 2012 onwards	Total
1.	Urban Planning	15	13	0	2	30
2.	Renewable Energy	20	13	0	0	33
3.	Chemical Engg.	14	15	0	0	29
4.	Disaster Assessment and Mitigation	10	10	2	0	22
5.	Earthquake Engg.	12	0	0	0	12
6.	Environmental Engg.	15	13	3	0	31
7.	Structural Engg.	12	16	0	0	28
8.	Transportation Engg.	18	9	3	0	30
9.	Water Resources Engg.	14	13	0	0	27
10.	Computer Engg.	22	26	2	0	50
11.	Power Electronics & Drives	19	0	0	0	19
12.	Power Systems	23	13	1	0	37
13.	Electronics & Communication Engg.	21	24	5	1	51
14.	Embedded Systems	17	16	0	0	33
15.	VLSI Design	22	19	2	0	43

S. No.	Programme	I Year 2015	2 nd Year 2014	3 rd Year 2013	Back 2012 onwards	Total
16.	Wireless & Optical Communication	18	21	0	0	39
17.	Design Engineering	14	14	3	0	31
18.	Industrial Engineering/MSE	19	18	3	1	41
19.	Production Engineering	14	10	0	0	24
20.	Thermal Engineering/Energy	15	12	4	0	31
21.	Metallurgical & Materials Engineering	9	17	1	0	27
22.	Steel Technology	5	4	3	0	12
	Total (A)	348	296	32	4	680

1.	M.Sc. in Applied Physics	24	18	0	0	42
2.	M.Sc. in Applied Chemistry	19	15	0	0	34
3.	M.Sc. in Applied Mathematics	25	10	0	0	35
	Total (B)	68	43	0	0	111



1.	M.B.A.	42	26	2	1	
	Total (C)	42	26	2	1	71
	Total (A+B+C)	458	365	34	5	862

4.3 COURSE WISE ADMISSION STATISTICS-UG/PG PROGRAMMES

(a) Students admitted to Undergraduate B. Tech./B.Arch. programmes through CSAB (JoSAA) during the session 2015-16

S. No.	Branch	OP	OP PH	OBC	OBC PH	SC	SCPH	ST	STPH	Total
1.	Architecture	27	1	17	0	8	0	5	0	58
2.	Chemical Engg.	44	1	25	0	14	0	7	0	91
3.	Civil Engg.	37	0	30	1	14	0	6	2	90
4.	Computer Science & Engg.	41	2	25	1	14	0	7	0	90
5.	Electronics & Communication Engg.	46	1	24	1	13	0	7	0	92
6.	Electrical Engg.	36	1	32	1	13	1	7	0	91
7.	Mechanical Engg.	39	1	30	1	13	0	7	0	91
8.	Metallurgical & Materials Engg.	34	1	28	1	14	0	7	0	85
	TOTAL	304	8	211	6	103	1	53	2	688

(b) Students admitted to Undergraduate B. Tech./B.Arch. programmes through DASA during the session 2015-16

S. No.	Branch	DASA
1.	Architecture	3
2.	Chemical Engg.	3
3.	Civil Engg.	7
4.	Computer Science & Engg.	10
5.	Electronics & Communication Engg.	11
6.	Electrical Engg.	2
7.	Mechanical Engg.	10
	TOTAL	46

(c) Students admitted to Undergraduate B. Tech./B.Arch. programmes through ICCR/MEA during the session 2015-16

S. No.	Branch	ICCR	MEA
1.	Chemical Engg.	0	1
2.	Civil Engg.	2	1
3.	Electronics & Comm. Engg.	0	1
4.	Electrical Engg.	1	0
5.	Mechanical Engg.	0	1
	TOTAL	3	4



(d) Students admitted to Postgraduate Programmes during the session 2015-16 in M.Tech. / M.Plan. /M.Sc. /M.B.A. programmes

S. No.	Programmes	General	ST	SC	OBC	Sponsored	Part Time	Total
1.	Urban Planning	7	1	2	5	0	0	15
2.	Renewable Energy	8	2	3	4	0	3	20
3.	Chemical Engineering	7	2	3	2	0	0	14
4.	Disaster Assessment and Mitigation	7	0	2	1	0	0	10
5.	Earthquake Engineering	7	0	2	3	0	0	12
6.	Environmental Engineering	5	2	1	5	2	0	15
7.	Structural Engineering	6	1	1	4	0	0	12
8.	Transportation Engineering	8	1	2	3	1	3	18
9.	Water Resources Engineering	5	2	3	4	0	0	14
10.	Computer Engineering	8	2	3	7	2	0	22
11.	Power Electronics & Drives	8	2	2	7	0	0	19
12.	Power Systems	9	2	3	6	3	0	23
13.	Electronics & Communication Engineering	3	2	4	9	1	2	21
14.	Embedded Systems	6	1	4	6	0	0	17
15.	VLSI Design	10	1	3	5	1	2	22
16.	Wireless & Optical Communication	5	3	2	8	0	0	18
17.	Design Engineering	6	0	2	5	1	0	14
18.	Industrial Engineering	7	2	3	7	0	0	19
19.	Production Engineering	8	1	2	3	0	0	14
20.	Thermal Engineering	8	1	2	4	0	0	15
21.	Metallurgical & Materials Engineering	3	0	2	4	0	0	9
22.	Steel Technology	0	0	3	2	0	0	5
	TOTAL	141	28	54	104	11	10	348
M. Sc.								
1.	M. Sc. Physics	15	1	1	7	0	0	24
2.	M. Sc. Chemistry	14	0	3	2	0	0	19
3.	M. Sc. Mathematics	14	0	2	9	0	0	25
	TOTAL	43	1	6	18	0	0	68
M.B.A								
1.	M.B.A.	30	1	2	9	0	0	42
	GRAND TOTAL	M. Tech/M. Plan/M. Sc./MBA						458



(e) Students admitted to Ph.D. Programmes 2015-16 (July 2015)

S. No.	Department	Students admitted	
		Full Time	Part Time
1.	Architecture & Planning	2	0
2.	Centre for Energy & Env.	2	0
3.	Chemical Engineering	6	0
4.	Chemistry	3	0
5.	Civil Engg.	8	1
6.	Computer Science & Engineering	9	1
7.	Electrical Engg.	8	0
8.	Electronics & Comm. Engg.	7	0
9.	Mathematics	1	0
10.	Mechanical Engg.	5	1
11.	Metallurgical & Materials Engg.	3	0
12.	National Centre for Disaster Mitigation and Management	1	1
13.	Physics	6	0
Grand Total		61	4

(f) Students admitted to Ph.D. Programmes 2015-16 (January 2016)

S. No.	Department	Students admitted	
		Full Time	Part Time
1.	Architecture & Planning	1	0
2.	Centre for Energy & Environment	3	1
3.	Chemical Engineering	3	0
4.	Civil Engg.	3	1
5.	Computer Science & Engineering	6	1
6.	Electrical Engg.	5	1
7.	Electronics & Communication Engg.	4	3
8.	Humanities & Social Sciences	1	0
9.	Mathematics	2	0
10.	Mechanical Engg.	5	0
11.	Metallurgical & Materials Engg.	1	0
12.	Physics	2	1
Grand Total		36	8



4.4 Hostels

There are twelve hostels for the students of our Institute. The details of rooms are as follows:

Hostel No.	Single Seated Rooms	Double Seated Rooms	Triple Seated Rooms	Total Capacity
Boys' Hostels				
Hostel - 1	72		36	180
Hostel - 2	72		36	180
Hostel - 3	72		36	180
Hostel - 4	72	36		144
Hostel - 5	182			182
Hostel - 6	72		36	180
Hostel - 7			75	225
Hostel - 8	212			212
Aurobindo Hostel	986			986
Girls' Hostel				
Girls Hostel A Block	48		14	90
Girls Hostel B Block		68		136
Gargi Hostel	400			400
P.G. Hostel	16			16
MSH	8			8
GRAND TOTAL	2212	104	233	3119

Administrative set up for Hostels

Chief Warden	1
Warden	17
Mess Assistants	5
Caretakers	2

We have twelve hostels for the students of our Institute, Nine for boys and three for girl students. The total capacity of hostels for male candidates is around 2500 and that for female candidates is around 650. Apart from accommodation for regular students, we have 60 well furnished guest rooms (40 for male candidates and 20 for female candidates) for research scholars, trainees of short term training programs, etc., visiting MNIT for short durations.

The hostels are equipped with modern facilities like net connectivity through Wi-Fi/ LAN, automatic laundry facilities, solar geysers etc.; all hostels have manned security round the clock. All the hostel premises have large open areas with good landscaping and playgrounds.

Hostel Management

Each hostel is taken care of by hostel caretakers, and wardens. The council of wardens is headed by Chief Warden. Council of wardens and mess committees meet regularly to discuss various issues related to hostels and mess.



Dining Facilities

Presently we have mess facility in all hostels except Hostel no. 3, 4 and 5. The residents of these hostels are dining in messes attached with other hostels. The mess in Aurobindo Hostel and Gargi Hostel (also catering to residents of Girls Hostel A and B Block) are being operated by private service provider. All messes have been renovated and have modern facilities to facilitate proper hygiene.

Mess Committee consisting of Mess Secretary and Student representatives and Mess Members manage the mess. Entire salary of the mess servants is borne by the students themselves through MNIT Students Mess account. Mess committees supervise the daily menu, quality of food, cleanliness in the mess, etc.

Laundry Facilities

Modern laundry facilities have been installed in Aurobindo Hostel and Gargi Hostel for residents of Boys and Girls Hostel. Students are using these facilities through prepaid smart cards.

Solar Geysers

All hostels are equipped with solar geysers for hot water, which results in huge saving of energy.

Solar Steam Cooking System

Recently we have installed Solar Steam Cooking System in Gargi Hostel. The consumption of LPG shall reduce significantly with the use of Solar Steam Cooking System at full efficiency. This will also result in better nutritional value of cooked food.

Other Facilities

There is one Common Room for each hostel, having the facility of a colour television, and one Table Tennis table.

4.5 SCHOLARSHIPS/ASSISTANTSHIP

Please see the details in Annexure 11.10

4.6 GAMES AND SPORTS

Physical education & Sports is an important part of today's educational experience and physical activities are a part of this curriculum. An important characteristic of Physical education and Sport is its ability to draw upon a range of sciences to inform and advance in the fields of sport performance, exercise education, health and well-being through participation in various physical activities. Physical education and Sport will continue to pursue health and wellbeing mission for students, staffs and their family members. The vision – "Fit MNIT fit India" and excellence in Games and Sports has developed a confident understanding of issues of all round development of qualities like personality, positive leadership, motivation, commitment, men managing, cardio respiratory development, general motor ability, quick decision making ability, body sculpture, stress free life, Fitness & current global significance of Olympic sports. Rejoicing the success and accepting the failure and learning from it, that is exactly what sports teaches us and the mission of sports activities is to let the future engineers feel the spirit of sportsmanship.

Students, staff and their family members are enjoying and using Institute's indoor sports facilities. Physical Education and Sports have created and developed a positive and healthy sports culture in the Institute. Sports have been allotted 04-credit in the B. Tech. (I-IVth semester) course curriculum (Creative Arts) which is a unique example in NIT system of India.



4.7 ACHIEVEMENTS IN GAMES & SPORTS

Participation of students in tournaments and results:

6. All India Inter NIT Athletic & Gym Competition 2015-16, held at MNIT Jaipur: overall second position. (Coach Dr. Virender Singh).
7. Udhgosh-15 held at IIT Kanpur: satisfactory results.
8. BOSM -15 held at BITS Pilani: Won silver medal in badminton girls and two medals in Athletics.
9. All India Inter NIT Tournaments 2015-16, (Volleyball, Badminton and Tennis) held at NIT Surat. Satisfactory results.
10. All India Inter NIT Tournament 2015-16 (basketball and cricket) held at NIT Calicut: Satisfactory performance (Coach Dr. Virender Singh).

Activities organized by Institute:

8. Annual Athletic Meet 2015-16
9. MNIT Sports Tournament 2016
10. All India Inter NIT Athletic & Gym Competition 2015-16
11. Inter Branch Tournaments 2015-16 (Badminton, Basket ball, Cricket, Chess, Football, Volleyball, Gym, Tennis, and Table Tennis etc.)
12. Hong Kong Sixes Cricket Tournament 2016.
13. Intra Institute level Badminton Tournament -2015.
14. Mixed Volleyball, Badminton and Basketball Tournaments 2015.

4.8 EXAMINATION DETAILS

(a) Results of Undergraduate Courses of final B.Tech./ B. Arch. courses Academic Session 2015-16

Disciplines	N o. of students appeared	No. of students passed with CGPA on a 10-point scale			Registered in next semester	Total
		Above 7.75 CGPA	7.74 to 6.75 CGPA	6.74 to 5.0 CGPA		
Final B. Architecture (5-year course)	63	13	17	19	14	63
Final B. Tech. Civil Engg.	95	29	35	14	17	95
Final B. Tech. Chemical Engg.	92	23	27	34	8	92
Final B. Tech. Computer Science & Engg.	105	28	26	31	20	105
Final B. Tech. (Information Technology)	3	0	0	2	1	3
Final B. Tech. Electrical Engg.	102	33	29	35	5	102
Final B. Tech. Electronics & Communication Engg.	100	35	25	23	17	100
Final B. Tech. Mechanical Engg.	106	25	41	27	13	106
Final B. Tech. Metallurgical & Materials Engg.	91	30	24	24	13	91



(b) Results of Postgraduate Courses of final year M.Tech./M.Plan./M.Sc./MBA
Academic Session 2015-16

Disciplines	N o. of students appeared	No. of students passed with CGPA on a 10-point scale			Registered in next semester	Total
		Above 7.75 CGPA	7.74 to 6.75 CGPA	6.74 to 5.0 CGPA		
M.Tech. in Chemical Engineering	15	4	7	3	1	15
M.Tech. in Environmental Engg.	14	7	2	2	3	14
M.Tech. in Water Resources Engg.	12	4	5	1	2	12
M.Tech. in Structural Engg.	16	8	1	0	7	16
M.Tech. in Power Systems	14	6	6	0	2	14
M.Tech. in Transportation Engg.	11	4	3	0	4	11
M.Tech. in Industrial Engg./MSE	24	8	10	3	3	24
M.Tech. in Metallurgical & Materials Engg.	17	7	7	0	3	17
M.Tech. in Electronics & Comm. Engg.	27	15	11	1	0	27
M.Tech. in Embedded Systems	16	11	3	1	1	16
M.Tech. in Wireless and Optical Communication	21	13	5	1	2	21
M.Tech. in VLSI Design	20	12	6	1	1	20
M.Tech. in Thermal Engineering	12	9	3	0	0	12
M.Tech. in Computer Engineering	28	9	12	5	2	28
M.Tech. in Disaster Assessment and Mitigation	10	6	3	1	0	10
M.Tech. in Renewable Energy	13	5	7	0	1	13
M.Tech. in Production Engg.	9	6	3	0	0	9
M.Tech. in Design Engg.	17	6	6	2	3	17
M.Tech. in Steel Technology	7	6	1	0	0	7
M.Tech. in Urban Planning	13	3	6	4	0	13
M. Sc. Physics	18	10	7	1	0	18
M. Sc. Chemistry	15	11	1	2	1	15
M. Sc. Mathematics	10	8	1	0	1	10
M.B.A.	28	6	13	8	1	28
Total	387	184	129	36	38	387

4.9 TRAINING AND PLACEMENT

Details are given in Annexure 11.11

4.11 10th CONVOCATION

The 10th Convocation of the Institute was held on 11th December, 2015. Dr. R. A. Mashelkar, National Research Professor, President of Global Research Alliance graced the occasion as the Chief Guest. Total 1177 degrees were awarded in UG (803), PG (339) and Ph.D. (35) programmes.

5. RESEARCH AND DEVELOPMENT ACTIVITIES

Research and Development at MNIT Jaipur is one of the focal point to achieve its vision of developing cutting edge technology to meet the current and future challenges of technological development. The rich experience and talents of the faculty, combined with their passion and dedication for research, development and consultancy in their respective areas has created excellent results. The focus on research is not limited to the faculty members in their laboratories of the Institute but is pervasive beyond it in classrooms and fields as reflected in its relevance and rigor in all academic programmes of the Institute.

The Research and Development activities are supervised by the Research and Consultancy Cell at MNIT headed by Dean – Research and Consultancy. The cell is established with the objective of fostering in the Institute an enabling environment conducive for promoting and encouraging research, consultancy and other extension and professional activities among faculty and students. The Office of Dean – Research and Consultancy (ODRC) monitors all externally and internally funded and sponsored research, professional consultancy and development activities.

Some of the Salient data for the year is as under:

S. No.	Consultancy & Project	2015-16	
		Number Consultancy & Project	Amount of R&D Fund sanctioned
1.	Consultancy	235	5.20 Crores
2.	Project	31	12.82 Crores

5.1 Ph.D. PROGRAMMES

The Institute offers a full time/part time advanced programme leading to the Ph.D. degree in the areas of Engineering/Technology/Sciences/Humanities & Social Sciences, Management. Admission to these programmes is open to individuals from all disciplines, twice a year, for the Odd (July) and Even (January) semesters. The admission process is based on the past academic record, a research proposal, references and a personal interview. Upon admission students have to complete minimum course requirements and clear a comprehensive examination before commencing with their doctoral research under the guidance of a supervisor and research committee of the student concerned. The Institute offers a variety of competitive scholarships and assistance to full-time Ph.D. students.

Minimum Qualifications	Normal duration	Maximum duration
B.Tech./M.Sc./MBA	Full Time: 6 Semesters	10 Semesters
M.Tech.	Part Time: 4 Semesters	10 Semesters

**5.2 DETAILS OF Ph.D. AWARDED FROM 1ST APRIL 2015 TO 31ST MARCH 2016**

Department	Total degrees
Civil Engineering	7
Chemical Engineering	3
Chemistry	2
Computer Science & Engineering	6
Electrical Engineering	5
Electronics & Communication Engg.	4
Humanities & Social Sciences	2
Mathematics	2
Mechanical Engg.	8
Metallurgical & Materials Engg.	1
Management Studies	2
Physics	1
TOTAL	43

5.3 PROPOSED PLAN FOR RESEARCH

Each department of the Institute has identified its area of strength and intends to focus on these areas for best results. Full-Time Ph.D. studentships are also proposed to attract engineering graduates to pursue research at the Institute.

5.4 CENTRES FOR EXCELLENCE**1. Centre for Development of Stone**

To encourage research in the stone sector, Centre for Development of Stones (CDOS) established a Stone Research Chair at MNIT Jaipur. Prof. Ravindra Nagar is presently looking after the activities of the chair as coordinator.

The possible research areas identified were:-

- (1) Mine Productivity and safety
- (2) Physical, Mechanical and Thermo characterization of stone properties for promoting usage of stones as a sustainable green building material especially for various structural applications.
- (3) Study of Morphology of various stones with a view to develop appropriate cost effective and suitable tool and machine development for mining and processing of different varieties of stones.
- (4) Stone conservation and restoration.
- (5) Standardization of Indian natural stones for structural applications.
- (6) Gainful utilization of stone waste generated during mining and processing.
- (7) Reclamation of exploited land/ mines by way of promoting urbanization, developing fisheries, artificial reservoirs and reestablishment of drainage system etc.

Activities of CDOS Stone Chair

1. Prof. Ravindra Nagar and Dr Harlal Mali delivered address at **World Stone fair** at Bengluru from 03.02.2016 to 06.02.2016.



2. Dr Pawan Kalla attended workshop at Ramganj Mandi from 14-07-2015 to 14-07-2015.
3. Dr Ravindra Nagar attended meetings with CDOS and RIICO officials to formulate policy to encourage utilisation of Stone waste by the Industry.
4. Dr Pawan Kalla attended National Conference on **Global Stone Technology Forum** at CDOS Jaipur, Udaipur, India from 17-12-2015 to 18-12-2015.
5. Dr Pawan Kalla attended National Workshop on **Sustainable use of Kota Stone Waste** at Kota stone small scale industries, Ramganj Mandi, India from 14-07-2015 to 14-07-2015.

List of Ph.D thesis Awarded / Submitted

Sl. No.	Name of Student	Year	Title of the Dissertation	Supervisors
1.	Shiv Ranjan	2016 (Awarded)	Development and Performance Assessment of Nano-composite materials for Dental Applications	Dr. Amar Patnaik Prof. I.K.Bhat
2.	Vikas Gautam	2016 (Awarded)	Tribo-Performance of Multilayer Surface Coating On Granite Dust Filled Metal Alloy Composites	Dr. Amar Patnaik Prof. I.K.Bhat
3.	Swati Gangwar (Submitted on April 2016)	2016 (Submitted)	An Investigation of Mechanical, Thermal and Wear Properties of Marble Dust/Calcium Oxide filled Metal Alloy Composites for Ball Bearing	Dr. Amar Patnaik Prof. I.K.Bhat
4.	Manoj Pawar Submitting on 21/07/2016	2016 (Submitted)	Experimental Studies on Mechanical, Thermal and Erosive Wear Characteristics of Granite Powder Filled Fiber Reinforced Polymer Composites for Wind Turbine Blade	Dr. Amar Patnaik Prof. R. Nagar
5.	Sarabjeet Singh	2016 (Submitted)	Strength and Durability Studies on Concrete Containing Granite Cutting Waste as Partial Replacement of Sand	Prof. Ravindra Nagar Dr. Vinay Agarwal



Research Projects in Progress

S. No.	Title of Project	Faculty Supervisors	Research Scholars
1.	Sustainable reuse of Kota Stone Waste in Concrete.	Dr. Pawan Kalla	Aditya Rana
2.	Study of Morphology and Physical, Mechanical & Thermal Properties of Various Stones with a view to Optimise their Cutting & Machining Parameter's	Dr. H. S. Mali Prof. Ravindra Nagar	Bhargav Prajwal Pathri

List of Publications in International Journal

- [1] Singh, S., Khan, S., Khandelwal, R., Chugh, A., & Nagar, R. Performance of Sustainable Concrete Containing Granite Cutting Waste. *Journal of Cleaner Production*. 2016; 119: 86-98.
- [2] Singh, S., Nagar, R., Agrawal, V., Rana, A., Tiwari, A. Sustainable Utilization of Granite Cutting Waste in High Strength Concrete. *Journal of Cleaner Production*. 2016; 116: 223-235.
- [3] Singh, S., Nagar, R. and Agrawal, V. A review on Properties of Sustainable Concrete using granite dust as replacement for river sand. *Journal of Cleaner Production*, 2016; 126: 74-87.
- [4] Singh, S., Nagar, R. and Agrawal, V. Performance of granite cutting waste concrete under adverse exposure conditions. *Journal of Cleaner Production*, 2016; 127: 172-182.
- [5] Tiwari, A., Singh, S. and Nagar, R. Feasibility assessment for partial replacement of fine aggregate to attain cleaner production perspective in concrete: A review. *Journal of Cleaner Production*, 2016; 135: 490-507.
- [6] A Rana, P Kalla, LJ Csetenyi, Recycling of dimension limestone industry waste in concrete, *International Journal of Mining, Reclamation and Environment* 2016; 1-20.
- [7] A Rana, P Kalla, HK Verma, JK Mohnot Recycling of dimensional stone waste in concrete: A review *Journal of Cleaner Production* 2016; 135: 312-331
- [8] Shiv Ranjan Kumar, Amar Patnaik, I K Bhat. Analysis of polymerization shrinkage and thermo-mechanical characterizations of resin-based dental composite reinforced with silane modified nanosilica filler particle. *Journal of Materials: Design and Applications* 230 (2016) 492-503.
- [9] Shiv Ranjan Kumar, Amar Patnaik, I K Bhat. Physical and thermo-mechanical characterizations of resin-based dental composite reinforced with silane-modified nanoalumina filler particle, *Journal of Materials: Design and Applications* 230 (2016) 504-514.
- [10] Anoj Meena, Harlal Singh Mali, Amar Patnaik, Shiv Ranjan Kumar. (2016). Effect of adding nanoalumina and marble dust powder on the physical, mechanical and thermo-mechanical characterization of dental composite,, *Polymer Composites* DOI: 10.1002/pc.24131
- [11] Vikash Gautam, Amar Patanaik, I. K. Bhat Thermo-Mechanical and Fracture Characterization of Uncoated, Single and Multilayer (SiN/CrN) Coating on Granite Powder Filled Metal Alloy Composites. *Silicon*. 2016 8: 133-143.
- [12] A Rana, P Kalla, LJ Csetenyi, Sustainable use of marble slurry in concrete, *Journal of Cleaner Production* 2015; 94: 304-311.

- [13] P Kalla, A Rana, YB Chad, A Misra, L Csetenyi, Durability studies on concrete containing wollastonite, *Journal of Cleaner Production* 2015; 87: 726-734.
- [14] Shiv Ranjan Kumar, I K Bhat, Amar Patnaik. Novel dental composite material reinforced with silane functionalized micro-sized Gypsum filler particles, *Polymer Composites*. 2015; DOI: 10.1002/pc.23599.
- [15] Shiv Ranjan Kumar, Amar Patnaik, I K Bhat. Optimum selection of nano and micro sized filler for the best combination of physical, mechanical and wear properties of dental composites, *Journal of Materials: Design and Applications* DOI: 10.1177/1464420716629825.
- [16] Shiv Ranjan Kumar, Amar Patnaik, I K Bhat. (2015). In vitro wear behavior of dental composite filled with silane treated nanozirconia filler, *Journal of Engineering Tribology* DOI: 10.1177/1350650116641329.
- [17] Swati Gangwar, Amar Patnaik, I.K.Bhat. Tribological and Microstructure Behaviour of Quicklime (CaO) filled Silicon Bronze Alloy for Bearing Material, *Silicon*. 2015; DOI 10.1007/s12633-015-9352-1.
- [18] Swati Gangwar, Amar Patnaik, I.K.Bhat. Tribological and Thermo-mechanical analysis of CaO (Quicklime) particulates filled ZA-27 Alloy Composites for Bearing Application, *Journal of Materials: Design and Applications*. 2015; DOI: 10.1177/1464420715609196.
- [19] Swati Gangwar, Amar Patnaik, I.K.Bhat. Tribological and Microstructure Examination of Environmental Waste (Marble Dust) filled Silicon Bronze Alloy for Wear Resistant Applications, *Silicon*. 2015; DOI: 10.1007/s12633-015-9401-9.
- [20] Vikash Gautam, Amar Patanaik, I. K. Bhat. Microstructure and Wear Behaviours of Single layer (CrN) and Multilayered (SiN/CrN) Coating on Particulate Filled Aluminum Alloy Composites. *Silicon*. 2015; DOI: 10.1007/s12633-015-9357-9 (inpress).
- [21] M. J. Pawar, Amar Patnaik, Ravindra Nagar. Experimental investigation and numerical simulation of granite powder filled polymer composites for wind turbine blade: A comparative analysis, *Polymer Composites*. 2015; DOI 10.1002/pc.23700 (inpress).
- [22] M. J. Pawar, Amar Patnaik, Ravindra Nagar. Investigation on Mechanical and Thermo-Mechanical Properties of Granite Powder Filled Treated Jute Fiber Reinforced Epoxy Composite, *Polymer Composites*. 2015; DOI 10.1002/pc.23633 (inpress).
- [23] M. J. Pawar, Amar Patnaik, Ravindra Nagar. Numerical Simulation and Experimental Validation of Granite Powder Filled Jute Epoxy Composite for Slurry Jet Erosive Wear. *International Polymer Processing*. 2016; 31: 37-50.
- [24] B. Prajwal, Arpit, DR Unune, H.S Mali, S.S Dhami, Ravindra Nagar. (2016), "Design and fabrication of a strain gauge type 3-axis milling tool dynamometer: Fabrication and Testing" *International Journal of Materials Forming and Machining Processes (IJMFP)*, ISSN: 2334-4563.
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- [26] B. Prajwal, Rohit Chaudhary, H.S Mali. Abrasion wear characterization of some Rajasthan marble stones subjected to foot traffic and correlation between abrasion and mechanical properties is under review in "Journal of the Australian Ceramic Society"

**Book Chapter**

- [1] I. K. Bhat, Amar Patnaik, Shiv Ranjan Kumar. 2015. Investigation of wear characteristics of dental composite reinforced with rice husk derived nanosilica filler Particles, Volume7, Nanocomposite: Fundamental and Science, Handbook of composite from renewable materials and agricultural sources" being published by prestigious Wiley Scrivener, publisher USA (accepted).
- [2] Swati Gangwar, Amar Patnaik, I. K. Bhat. 2015. Effect of Fabrication and Characterization of Quicklime (CaO) filled ZA-27 Metal Alloy Composites for Single Row Deep Groove Ball Bearing, Wiley Scrivener publisher (accepted).

Conference publications

- [1] B. Prajwal, HS Mali, Ravindra Nagar. Sustainability study and energy audit of marble industry of Rajasthan, has been Communicated to All India Manufacturing Technology Design and Research (AIMTDR), 2016
- [2] Singh, S.Tiwari, A., Nagar, R., Agrawal, V., (2015). Feasibility as a potential substitute for natural sand: A comparative study between granite cutting waste and marble slurry. Proceedins of 5th IconSWM-2015: P;543-552
- [3] Singh, S., Nagar, R.,Agrawal, V., Rana, A.,(2015). Utilization of Granite Cutting Waste in Concrete as Partial replacement of Sand. UKERI-2015;P2496-2504
- [4] B. Prajwal, HS Mali, Rohit, Ankit, Manish Sandeep. Study & analysis of various marble cutters used in stone and marble Industry of Rajasthan, published in "International Conference on Precision, Meso, Micro and Nono Engineering (Copen-9)", 2015.
- [5] Shiv Ranjan Kumar, Amar Patnaik I.K. Bhat Water Sorption and Solubility Behaviour of Dental Composites Reinforced with Nanotitania Filler. International Conference on Emerging and Futuristic Trends in Engineering & Technology at Maharja Agrasen Institute of Technology, Solal, Baddi (HP), May 8-9, 2015
- [6] Vikash Gautam, Amar Patnaik, I. K. Bhat, Slurry Erosion Performance of Multilayer Coated 1050 Aluminum Alloy Composites. International Conference on Emerging and Futuristic Trends in Engineering & Technology at Maharja Agrasen Institute of Technology, Solal, Baddi (HP), May 8-9, 2015.
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- [8] Swati Gangwar, Amar Patnaik, I.K.Bhat, Surface Wear Behavior of Marble Dust (Stone waste) Filled ZA-27 Alloy Composites for Bearing Material, International Conference (ICMFA-2015), IIT BHU, Oct.27 – 29, 2015.
- [9] M. J. Pawar, Amar Patnaik, Ravindra Nagar Investigation on Mechanical Properties of Granite Dust Filled Glass Epoxy Composite for Wind Turbine Blade. International Conference on Emerging and Futuristic Trends in Engineering & Technology at Maharaja Agrasen Institute of Technology, Solal, Baddi (HP), May 8-9, 2015.

Patents Filed

Sl No	Title of Patent	Inventors	Patent Application Number	Status
1	Fabrication of polymeric dental composites by adding new filler Gypsum	Shiv Ranjan Kumar Dr. Amar Patnaik Prof. I.K. Bhat	1321/DEL/2015	Application awaiting examination
2	Erosion wear resistant polymer composite laminate filled with granite powder waste	M. J. Pawar Dr. Amar Patnaik Prof. Ravindra Nagar	1322/DEL/2015	Application awaiting examination
3	Granite powder reinforced hydraulic turbine blades	Vikash Gautam Dr. Amar Patnaik Prof. I.K. Bhat	1320/DEL/2015	Application awaiting examination
4	Marble dust reinforced copper alloy composite fabrication	Swati Gangwar Dr. Amar Patnaik Prof. I.K. Bhat	1319/DEL/2015	Application awaiting examination
5	Development and characterization of self healing and antibacterial dental material	Prof. I.K. Bhat, Dr. Amar Patnaik, Mr. Shiv Ranjan Kumar	201611002648	filed
6	Slurry erosion wear assessment of marble dust powder reinforced aluminum alloy composites hydraulic turbine blade	Prof. I.K. Bhat, Dr. Amar Patnaik, Mr. Vikash Gautam	201611002651	Filed
7.	Recycling Kota-stone Waste as Aggregate in Bituminous Mixes	Dr. Pawan Kalla; Aditya Rana; Mohit Sharma Prof. Ravindra Nagar; Prof. Inder Krishnan Bhat	Applied	

2. National Centre for Disaster Mitigation and Management

National Centre for Disaster Mitigation and Management is an **Academic Department** in the Institute as established by the Board of Governors. The mission of the Center is to work for disaster mitigation and management in general and earthquake disaster in particular. The activities of the Centre include-Teaching (M. Tech in earthquake engineering), Research (Ph. D.) and Outreach. Presently the centre has ten adjunct faculty members with Ph. D degrees in relevant disciplines such as earthquake engineering, management, instrumentation etc. The Centre has a full time Masters program in M. Tech in Earthquake Engineering and some Ph. D. students.



The earthquake engineering laboratory in the centre has a microprocessor controlled electrodynamic shaking table (400 kgf force rating with 150 kg pay load and frequency range 05 Hz to 5000 Hz), and three electromechanical shakers and building models. The centre has placed procurement orders for setting up national seismic isolation test facility from the financial support provided by Department of Science of Technology, Government of India, under a DST-TSD project entitled “Indigenous Design and Development of Base Isolation System for Earthquake Hazard Mitigation.” The financial outlay of the project is Rs 5.47 Crore.

The centre aims to work as a national facility for undertaking experimental and analytical Research & Development related to the earthquake safety of the built environment in India, with special emphasis on Housing, Schools and Infrastructure development across the country besides other fields of disaster management. The center has the mentorship/support of internationally acclaimed persons in the field, which include, Prof. C. V. R. Murty, IIT Madras (now Director, IIT Jodhpur), Prof. T. K. Datta, IIT Delhi and MsAlpaSeth, former Seismic Advisor to Gujarat State Disaster Management Authority (GSDMA) etc.

3. Materials Research Centre

The Material Research centre envisions emerging as research intensive centre for interdisciplinary research in frontiers of Materials technology. It further envisions creation and maintenance of appropriate ambience entailing research in drives for development of appropriate materials technology. The center aims at fostering the growth of demanding technology of the day vis-à-vis creation of new knowledge pertaining to meaningful industry-institution interaction for invention & being a centre for innovation on materials science and technology , it contemplates striving for excellence knowledge creation & dissemination for useful economic activities beside creation of new generation scientist resources of the country to take the load sole in mastering the technology development activities across the globe. The Materials Research Centre of MNIT will continue hybridization of newer and newer facilities of science and engineering in order that a true culture of cooperative and participative activities in material science and technology emblems the birth of the real sense interdisciplinary entity.

List of Equipment in MRC

S.No.	Name of Equipment
1	High Resolution Transmission Electron Microscope
2	Field Emission Scanning Electron Microscope
3	Scanning Probe Microscope/AFM
4	X-Ray Diffractometer
5	X-Ray Photoelectron Spectroscopy
6	Confocal RAMAN
7	Atomic Absorption Spectrometer(AAS)
8	Glow Discharge Spectrometer(GDS)
9	FTIR
10	Fluorescence Spectrophotometer
11	UV – Visible (NIR) Spectrometer
12	Dynamic Mechanical Analyzer
13	DTA – TGA



S.No.	Name of Equipment
14	Thermal CVD system
15	RF-DC Sputtering
16	Electron Beam/ Vacuum Coating Unit
17	Ball Milling
18	Specimen Preparation for optical and electron microscopy
19	Semiconductor Device Analyzer and Function Generator
20	Microwave Reactor
21	Spin Coater
22	De- Ionized Water Plant
23	Micro Hardness Tester
24	UTM
25	Nano Particle and Zeta Potential Analyzer
26	EBSM with FESEM
27	Optical Microscope
28	Probe Station
29	Masked Planner Milling System
30	Ultrasonic Disk Cutter
31	Impedance Analyzer
32	LN2 Plant
33	Materials Studio-Modelling Software
34	COMSOL Software

Internal/External Usage of Equipments

MRC REVENUE		
Month	Internal(Charges were made applicable from April'15 (Rs.)	External/ Industry (Rs.)
Apr-15	82725.00	82250.00
May-15	38500.00	82970.00
Jun-15	72835.00	67350.00
Jul-15	43575.00	85340.00
Aug-15	25420.00	55740.00
Sep-15	30420.00	167380.00
Oct-15	39190.00	110430.00
Nov-15	16750.00	64220.00
Dec-15	18005.00	94120.00



Jan-16	70930.00	119810.00
Feb-16	25550.00	249505.00
Mar-16	118900.00	363783.00
Total	582800.00	1542898.00
Grand Total		Rs. 21,25,698.00

Seminar/Conference/Workshop/Symposium organized at MRC during April 2015 to March 2016:

1	25 th -29 th May 2015	International Symposium(Indo-USASK, Canada) on “Characterization Technique for High Performance Materials”
2	5 th and 6 th Dec 2015	International Symposium(Indo-Taiwan) on “Frontier of Molecular Science and Technology”

Areas breakup as per lab:

S. No.	Name of Lab	Equipments
1	Advance Microscopy Lab	a. High Resolution Transmission Electron Microscope [HR-TEM] b. Multi Mode Scanning Probe Microscope [AFM]
2	Structural & Surface Morphology Lab	a. FESEM b. Optical Microscope c. Micro-Hardness Tester



S. No.	Name of Lab	Equipments
3	Sample Preparation Lab	a. Ball Mill b. Abrasive Cutter c. Low precision Diamond Cutter d. Hot Mounting Press e. Grinder Polisher f. Semi-Automatic Polishing g. Hot Plate h. Dimple Grinding With Stereomicroscope i. Ion Beam Milling j. Twin Jet Tenupol k. Ultra Sonicator l. Vacuum Impregnator M. Mask Planar Milling System N. Ultra Sonic Disc Cutter with cross sectional TEM Sample Kit
4	Thin Film Deposition Lab	a. High Vacuum Thermal Coating b. Chemical Vapour Deposition c. RF/DC Magnetron Sputtering Unit d. Microwave Reactor e. Spin Coater
5	Mass Spectroscopy Lab	a. Confocal Raman Spectroscope with PL b. Mass Spectrometer c. Glow Discharge Spectrometer d. Atomic Absorption Spectrometer
6	Electronics Lab	a. Semiconductor Device Analyzer b. Probe Station c. Impedance Analyzer d. Zeta Potential and Nano patical size Analyzer e. Waveform Generator and Digital Oscilloscope
7	Optical/Thermal/Mechanical Characterization Lab	a. Fourier Transform Infrared spectrometer(FTIR) b. UV-Vis-NIR spectrophotometer c. Fluorescence Spectrometer d. Dynamic Mechanical Analyzer e. TGA-DTA
8	NMR Spectroscopy Lab	Nuclear Magnetic Resonance (NMR) Spectroscopy Lab
9	Computational Lab	a. COMSOL : Multiphysics Software b. Materials Studio
10	X-Ray Spectroscopy Lab	a X-Ray Photoelectron Spectroscope b. X-Ray Diffractometer
11	Liquid Nitrogen Plant	
12	Universal Testing Machine	



4. Center for Advance Design

Center for Advanced Design is aimed at promoting inter disciplinary research and to provide a platform to students to work together with hands on exposure in bringing up latest technological innovations. Center is equipped state of art Design and Simulation tools which give a first-hand experience to young and novice engineers to use the advanced simulation and design tools to use it to their advantage. The state of art facilities enables to take through from bird's eye view of the initial design to the complete detailed analysis of the design. Some of the focused areas are of the Finite Element Based Design Optimisation through Altair Optistruct, Advanced FE analysis such as Multi Body Simulation, Crash Simulations using Radioss and other different solvers. Advanced Meshing techniques to perform full 3D simulations.

Several Workshops and Design Challenges have been conducted to encourage among students Inter-Disciplinary Team working and focus oriented approach. As a result of the first round of Proto-builder Design challenge, we are able to nurture the innovative thinking process of young minds and the center plans to take it to next level by supporting the best ideas that have a potential of commercial/social value. Inter NIT Design competition is planned to bring together some of the best minds and provide a platform for bringing out the innovations.

Details of workshops/design challenges held in past are as follows:

Details of the Events Conducted by Center for Advanced Design during Year 2015-2016.

S. No.	Activity	Disciplines	Dates
1	Protobuilder Design Challenge I	All Disciplnes	6th and 7th August, 2015
2	Workshop on structural optimization using Altair optistruct I	Mech/Civil	5 th - 6 th September, 2015
3	Workshop on design styling using inspire solid thinking	Mech/Civil/Arch	20 – 21 Sept, 2015
4	Workshop on Multibody dynamics & Design Optimization	Mech/Civil	7 th – 8 th Nov, 2015
5	Advanced Workshop on structural optimization using Altair Optistruct	Mech/ Civil	24 th - 26 th March, 2016

5. Advanced Research Centre for Tribology

Advance Tribology Lab is one of the finest laboratories in MNIT Jaipur. This lab is equipped with state of art testing facilities in the area of friction, wear and lubrication and such facility is not available in the Rajasthan state as well as other academic Institutes in India. The Advance Tribology Laboratory in the Mechanical Engineering Department at MNIT Jaipur is actively involved in a wide variety of tribological research and tribology education. The laboratory conducts studies, primarily, in investigating the friction and wear of different kinds of materials. The research goals are to engineer and design materials that have improved wear resistance - enables components made of these materials to last longer, reduced friction coefficient - which saves energy, improves efficiency, and generally results in smoother operation, and can survive extreme environments-temperatures above 350 Degree Celsius and below -40 Degree Celsius and many others. One of the new and exciting areas of research that our lab is conducting is wear characteristics of stone dust filled composite materials.

The research focus of the centre is on the interfacial interactions of matrix material with reinforcement. Presently research are covering most of the automobile components and Industrial products applications such as automobile (piston ring/cylinder, bearings, valve seats, injectors, brake pad, etc), Energy (wind turbine, hydraulic turbine, solar energy etc.), aerospace, Bio-tribology (biomaterials, dental material, total hip replacement, medical equipments, prosthetic materials etc), Coating material for thin film (single, multilayer, nano and micro coating), Military (Armour Vehicle, Gun barrel etc.), Lubricant, food processing units, shoes material development, nanomaterials application etc. Along with above facilities this centre is also equipped with advanced casting equipments. We bring fundamental understanding to existing processes and developing new materials. The laboratory provides full-service fabrication facilities producing high quality metal, ceramics and plastic components used in various applications. It also presents knowledge-based technologies that aim to follow the way to transform the conventional (batch-by-batch) casting process into a flexible (mold-by-mold) process. The laboratory conducts interdisciplinary research and education to advance commercial casting practice. Strong emphasis is placed on the education of students and industry partners.

Beneficiary industries

1. Automobile industry
2. Bearing industry
3. Friction material industry
4. Piping industry
5. Hydraulic pump industry
6. Dental prosthesis industry
7. Hydraulic turbine industry
8. Plastic industry
9. Composite fabrication industry
10. Metal casting industry
11. Biomedical industry
12. Powder technology industry
13. Automobile industries
14. Wind energy



Equipment in the centre

Advance Tribology Lab

Sl. No.	Name of Equipment	Price (INR)
01	Sliding wear or pin-on-disc (Magnum)	4,35,100
02	Three body abrasive wear tester	3,26,325
03	Pin on Disc Tribometer	32,28,900
04	Ring on plate wear Tribometer	19,35,050
05	Reciprocating friction monitor	10,87,750
06	Low temperature torque tribometer	19,23,600
07	Slurry jet erosion tribometer	15,40,025
08	Slurry Abrasion Tester	3,32,050
09	Slurry Erosion Tester	4,35,100
10	Multispecimen Tester	42,59,400
11	Linear Reciprocating Tribometer	12,02,250
12	Air Jet Erosion Test Rig	6,08,000
13	Scratch Tester	25,15,000
14	Chase Friction Testing Machine	26,10,000
15	Dental Wear Simulator	49,19,528

Advance Casting Lab

Sl. No.	Name of Equipment	Price (INR)
01	High precision weighing Machine	36,613
02	Weighing machine	9,694
03	Induction furnace	5,36,815
04	Three Beaker Rhodium Plant	43,423
05	Sand Siever	51,965
06	High Temperature Vacuum Casting Machine	20,21,250
07	Metal Cutting Machine	2,10,000
08	Sonicator	3,40,742
09	Investment Mixture	3,11,045
10	Dust Collector Polishing Machine	68,250
11	Burnout furnace	68,535
12	Hot Disc Thermal Constant Analyzer	EUR 20,730
13	Corrosion Testing Apparatus	EUR 15,970

14	Injection Molding Machine	EUR 55,000
15	Twin Screw Extruder	USD 1,13,243.64
16	Compression Moulding Machine	USD 89,206.36

Equipment for next phase

1. High temperature vacuum and control atmosphere hot press
2. Automatic Grinding / Polishing Equipment for specimen preparation for different mechanical testing/ Tribology analysis
3. Hip Wear simulator

Areas breakup as per lab

1. Automobile industry
2. Bearing industry
3. Friction material industry
4. Piping industry
5. Hydraulic pump industry
6. Dental prosthesis industry
7. Hydraulic turbine industry

Activities of the Centre

1. Working on various Research projects from different funding agencies
2. Conducting B.Tech/M.Tech/Ph.D thesis work
3. Development of new materials
4. Conducting Summer courses for Inside and outside MNIT students once a year
5. Organizing workshops/ conferences/ Expert lectures
6. Submitting project proposals to different funding agencies
7. Provisioning of machine for Experimental work of M.Tech & Ph.D students from other departments of MNIT as well as of other institutes from all over India.

5.5 INSTITUTE- INDUSTRY COLLABORATION

Entrepreneurship Development Cell

Entrepreneurship Awareness Camps/activities following:-

S. No.	Date	Name of activities
1	06-04-2015 to 08-04-2015	Entrepreneurship Awareness Camp at MNIT Jaipur
2	16-04-2015	MNIT Business Quiz titled Aspire 2015
3	21-08-2015	Orientation Session for First Year Students.
4	21-08-2015 to 23-08-2015	Entrepreneurship Awareness Camp at Govt. Women Engineering College, Ajmer
5	04-09-2015 to 06-09-2015	Entrepreneurship Awareness Camp at MNIT Jaipur
6	07-10-2015 to 09-10-2015	Entrepreneurship Awareness Camp at Maharishi Arvind Institute of technology, Jaipur



7	12-09-2015	An event: LEARN HOW TO MAKE AN AWESOME PITCH for budding entrepreneurs
8	28-09-2015 to 30-09-2015	Entrepreneurship Awareness Camp at Jaipur Institute of Engineering & Management, Jaipur
9	08-10-2015	An event: Mentoring and Pitching in collaboration with Head start a non profit organization.
10	12-10-2015 to 14-10-2015	Entrepreneurship Awareness Camp at Maharishi Arvind College of Engineering and Research Centre, Jaipur
11	15-10-2015	One day Seminar on Building World Class Organization in association with FICCI
12	21-11-2015	An event: start up Saturday for budding entrepreneurs and Entrepreneurship enthusiasts
13	17-01-2016	Startup event on Sunday with the Theme Developing
14	12-02-2016 to 14-02-2016	Entrepreneurship Awareness Camp at Poornima group of Colleges, Jaipur
15	08-03-2016	Business Quiz Competition
16	10-03-2016	Tech. Pitch off event with nine startup
17	11-03-2016	Startup policy lecture delivered by Paresh Gupta
18	12-03-2016	Startup Saturday as Couple
19	18-03-2016 to 20-03-2016	Entrepreneurship Awareness Camp at Rajasthan Engineering College, Dausa
20	21-03-2016 to 23-03-2016	Entrepreneurship Awareness Camp at Dr. Radhakrishanan Institute of Technology, Jaipur
21	29-03-2016 to 31-03-2016	Entrepreneurship Awareness Camp at MNIT Jaipur
22	09-04-2016	Startup Nivesh Invest upon Various hypothetical Startups
23	05-05-2016 to 07-05-2016	Entrepreneurship Awareness Camp at Jaipur Institute of Engineering and Management, Jaipur
24	20-06-2016 to 01-07-2016	Two week Faculty Development Programme (FDP) at College of Technology and Engineering, Udaipur
25	10-08-2016	Orientation Session for First Year Students.

5.6 राजभाषा समिति

संस्थान में वर्ष 2015-16 के लिए निम्नानुसार राजभाषा समिति का गठन किया गया है :-

- | | | |
|---|---|-----------|
| 1. श्री अशोक अग्रवाल, सह-आचार्य, वैद्युत अभियांत्रिकी विभाग | — | संयोजक |
| 2. डॉ. राजकुमार जोशी, सहायक आचार्य, रसायनशास्त्र विभाग | — | सह-संयोजक |
| 3. डॉ. राजकुमार व्यास, सह-आचार्य, रसायन अभियान्त्रिकी विभाग | — | सदस्य |
| 4. डॉ. सुमन राठौड़, सहायक कुल सचिव | — | सदस्य |
| 5. श्री राजकुमार दुबे, सहायक कुल सचिव | — | सदस्य |
| 6. सुश्री किरण राठौड़, अधीक्षक | — | सदस्य |
| 7. श्री अंशु सक्सैना, सहायक (एसजी-प्रथम) | — | सदस्य |
| 8. श्री विजय भट्ट, कनिष्ठ सहायक | — | सदस्य |

उक्त राजभाषा समिति की बैठकें भारत सरकार के गृह विभाग के तहत राजभाषा के नियमों के अनुरूप नियमित अन्तराल में समय-समय पर आयोजित होती रही हैं।

राजभाषा समिति द्वारा वर्षभर में निम्नलिखित गतिविधियाँ आयोजित की गईं।

(क) संकाय सदस्यों/कर्मचारियों द्वारा संगोष्ठी/सम्मेलन/कार्यशाला में सहभागिता-

क्र. सं.	नाम एवं पदनाम	सम्मेलन/संगोष्ठी/कार्यशाला का नाम	स्थान	दिनांक	फण्डिंग एजेन्सी
1.	श्री राजकुमार दुबे, सहायक कुल सचिव	अल्पकालीन गहन प्रशिक्षण	केंद्रीय हिन्दी प्रशिक्षण संस्थान, राजभाषा विभाग, गृह मंत्रालय, भारत सरकार, नई दिल्ली	7 से 11 मार्च, 2016	एमएनआईटी, जयपुर
2.	सुश्री किरण राठौड़, अधीक्षक	अल्पकालीन गहन प्रशिक्षण	केंद्रीय हिन्दी प्रशिक्षण संस्थान, राजभाषा विभाग, गृह मंत्रालय, भारत सरकार, नई दिल्ली	7 से 11 मार्च, 2016	एमएनआईटी, जयपुर
3.	श्रीमती सिम्मी चौधरी कनिष्ठ सहायक	अल्पकालीन गहन प्रशिक्षण	केंद्रीय हिन्दी प्रशिक्षण संस्थान, राजभाषा विभाग, गृह मंत्रालय, भारत सरकार, नई दिल्ली	7 से 11 मार्च, 2016	एमएनआईटी, जयपुर



4.	श्री विजय भट्ट कनिष्ठ सहायक	अल्पकालीन गहन प्रशिक्षण	केंद्रीय हिन्दी प्रशिक्षण संस्थान, राजभाषा विभाग, गृह मंत्रालय, भारत सरकार, नई दिल्ली	7 से 11 मार्च, 2016	एमएनआईटी, जयपुर
5.	श्री राजकुमार जोशी सहायक आचार्य	अभिमुखी कार्यक्रम	केंद्रीय हिन्दी प्रशिक्षण संस्थान, राजभाषा विभाग, गृह मंत्रालय, भारत सरकार, नई दिल्ली	14 से 18 मार्च, 2016	एमएनआईटी, जयपुर

(ख) राजभाषा समिति द्वारा आयोजन संगोष्ठी/सम्मेलन/कार्यशाला –

क्र. सं.	नाम	पद	सम्मेलन/संगोष्ठी/ कार्यशाला का नाम	स्थान	तिथि	फण्डिंग एजेन्सी
1.	राजभाषा समिति	—	हिन्दी पावाड़ा उद्घाटन समारोह	एमएनआईटी जयपुर	सितम्बर 14, 2015	एमएनआईटी जयपुर
2.	श्री अंशु सक्सैना	संयोजक	हिन्दी आशु—भाषण	एमएनआईटी जयपुर	सितम्बर 14, 2015	एमएनआईटी जयपुर
3.	श्री विजय भट्ट	सह—संयोजक	हिन्दी आशु—भाषण	एमएनआईटी जयपुर	सितम्बर 14, 2015	एमएनआईटी जयपुर
4.	श्री अशोक कुमार अग्रवाल	संयोजक	तकनीकी विषयों पर हिन्दी भाषण	एमएनआईटी जयपुर	सितम्बर 15, 2015	एमएनआईटी जयपुर
5.	डॉ. राजकुमार जोशी	सह—संयोजक	तकनीकी विषयों पर हिन्दी भाषण	एमएनआईटी जयपुर	सितम्बर 15, 2015	एमएनआईटी जयपुर
6.	श्री अशोक कुमार अग्रवाल	संयोजक	हिन्दी वाद—विवाद	एमएनआईटी जयपुर	सितम्बर 16, 2015	एमएनआईटी जयपुर
7.	सुश्री किरण राठौड़	सह—संयोजक	हिन्दी वाद—विवाद	एमएनआईटी जयपुर	सितम्बर 16, 2015	एमएनआईटी जयपुर
8.	डॉ. सुमन राठौड़	संयोजक	हिन्दी प्रश्नोत्तरी (लिखित)	एमएनआईटी जयपुर	सितम्बर 18, 2015	एमएनआईटी जयपुर
9.	श्री अंशु सक्सैना	सह—संयोजक	हिन्दी प्रश्नोत्तरी (लिखित)	एमएनआईटी जयपुर	सितम्बर 18, 2015	एमएनआईटी जयपुर
10.	डॉ. राजकुमार व्यास	संयोजक	हिन्दी काव्य—पाठ	एमएनआईटी जयपुर	सितम्बर 21, 2015	एमएनआईटी जयपुर
11.	श्री राजकुमार दुबे	सह—संयोजक	हिन्दी काव्य—पाठ	एमएनआईटी जयपुर	सितम्बर 21, 2015	एमएनआईटी जयपुर

12.	श्री अशोक कुमार अग्रवाल	संयोजक	तकनीकी विषयों पर हिन्दी निबन्ध लेखन	एमएनआईटी जयपुर	सितम्बर 21, 2015	एमएनआईटी जयपुर
13.	डॉ. राजकुमार जोशी	सह-संयोजक	तकनीकी विषयों पर हिन्दी निबन्ध लेखन	एमएनआईटी जयपुर	सितम्बर 21, 2015	एमएनआईटी जयपुर
14.	राजभाषा समिति	—	हिन्दी पावाड़ा समापन समारोह एवं पुरस्कार वितरण कार्यक्रम	एमएनआईटी जयपुर	सितम्बर 26, 2015	एमएनआईटी जयपुर

(ग) राजभाषा समिति द्वारा आयोजित विशिष्ट व्याख्यान/परिचर्चा-

क्र.सं.	व्याख्याता का नाम	पद एवं सम्बद्धता	व्याख्यान का विषय	तिथि	फण्डिंग एजेन्सी
1.	प्रो. योगेन्द्र यादव	प्रख्यात समाज विज्ञानी व चिन्तक	शिक्षा एवं स्वरोजगार	15 सितम्बर, 2015	एमएनआईटी जयपुर
2.	प्रो. कैलाश शर्मा	आचार्य, वनस्पति विज्ञान, राजस्थान विश्वविद्यालय, जयपुर व प्रख्यात चिन्तक	विद्यार्थियों में चरित्र निर्माण एवं राष्ट्रीय विकास में भूमिका	26 सितम्बर, 2016	एमएनआईटी जयपुर
3.	श्री सुरेश चौधरी	मुख्य सूचना आयुक्त, राजस्थान सूचना आयोग	भ्रष्टाचार के खिलाफ भारत	अक्टूबर 31, 2015	एमएनआईटी जयपुर
4.	डॉ. पी.एल. अग्रवाल	सूचना आयुक्त, राजस्थान सूचना आयोग	भ्रष्टाचार के खिलाफ भारत	अक्टूबर 31, 2015	एमएनआईटी जयपुर
5.	श्री आर.के. जैन	सेवानिवृत्त आईएएस, सम्भागीय आयुक्त, जोधपुर	भ्रष्टाचार के खिलाफ भारत	अक्टूबर 31, 2015	एमएनआईटी जयपुर
6.	श्रीमती ममता जैटली	सामाजिक कार्यकर्ता	भ्रष्टाचार के खिलाफ भारत	अक्टूबर 31, 2015	एमएनआईटी जयपुर
7.	श्री सुरेन्द्र चतुर्वेदी	स्वतंत्र पत्रकार	भ्रष्टाचार के खिलाफ भारत	अक्टूबर 31, 2015	एमएनआईटी जयपुर
8.	प्रो. इन्द्र कृष्ण भट	निदेशक, एमएनआईटी	भ्रष्टाचार के खिलाफ भारत	अक्टूबर 31, 2015	एमएनआईटी जयपुर
9.	प्रो. पुनीत शर्मा	दूरदर्शन केन्द्र	भ्रष्टाचार के खिलाफ भारत	अक्टूबर 31, 2015	एमएनआईटी जयपुर



5.7 Internal Complaint Committee (Women’s Cell)

As per the Act of Parliament 2013, on the Sexual Harassment of Women at Workplace chapter II following internal complaints committee (Women’s Cell) is constituted:

S. No.	Member	Constitution
1	Dr. Rashmi Jain, Professor, Mathematics Deptt. MNIT Jaipur	A Presiding Officer who shall be a woman employed at senior level at workplace amongst the employees;
2	Prof. M.C. Govil	Not less than two members from amongst employees preferably committed to the cause of women or who have experience in social work or have legal knowledge;
3	Dr. Nupur Tandon	
4	Dr. Kanupriya Sachdev	
5	Dr. Amit Singh	
6	Dr. Suman Rathore	
7	Prof. Pawan Surana, Member NGO, RUWA, Jaipur	One member from amongst non-government organizations or association committed to the cause of women or a person familiar with the issues relating to sexual harassment;

Registrar assists the committee in discharging the function.

Activity conducted by Women's Cell:

The Women's Cell regularly conducts workshops to train both male and female students to feel safe and report such instance, if any.

Faculty members of respective departments have been assigned to act as mentors for M.Tech. / Ph.D. female students. They conduct monthly counselling-cum-interactive sessions of respective groups of female students.

Two training programmes conducted by Institute of Public Administration, Bangalore on December 18 & 19, 2015 in Bengaluru and one training programme by Directorate of Women Empowerment, Jaipur on Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013 was attended by members of the committee.



6. THE COUNCIL, BOG AND OTHER COMMITTEES

6.1 BOARD OF GOVERNORS

S. No.	Nomination under	Name and Designation of nominated persons	Serve as
1.	Section 11 Clause (a)	Prof. I.K. Bhat (Director, MNIT Jaipur). The Director as per the Clause 17 (15) of NIT Statutes discharged the function of the Chairperson.	Chairman
2.	(b)	Prof. I.K. Bhat, Director, MNIT, Jaipur	Ex-Officio Member
3.	(c)	The Joint Secretary (Technical Education) Govt. of India, MHRD, Dept. of Higher Education Shastri Bhawan New Delhi	Member
4.	(c)	The Financial Advisor Government of India, MHRD, Dept of Higher Education, New Delhi	Member
5.	(d)	Prof. Ravi Juniwal, Apex Institute of Management, Jaipur	Member
6.	(d)	Member to be nominated by State Govt.	Member
7.	(e)	Member to be nominated by NIT Council.	Member
8.	(e)	Member to be nominated by NIT Council.	Member
9.	(f)	Prof. Ashok Sharma, Met. & Mat Engg. Dept., MNIT, Jaipur	Member
10.	(f)	Dr. Awdhesh Bhardwaj, Mechanical Engg. Dept., MNIT, Jaipur	Member
11.	Section 18 Clause (2)	Prof. M.K. Shrimali, Registrar, MNIT, Jaipur	Secretary

**6.2 FINANCE COMMITTEE**

S. No.	Name and Designation of nominated persons	Serve as
1	Prof. I.K. Bhat (Director, MNIT Jaipur). The Director as per the Clause 17 (15) of NIT Statutes discharged the function of the Chairperson.	Chairman
2	Prof. I.K.Bhat, Director, MNIT, Jaipur	Ex-Officio Member
3	The Joint Secretary (Technical Education) Govt. of India, MHRD, Dept. of Higher Education Shastri Bhawan New Delhi	Member
4	Two persons nominated by the Board amongst the members	Member
5	Registrar, MNIT, Jaipur.	Ex-officio Member Secretary

6.3 BUILDING & WORKS COMMITTEE

S. No.	Name and Designation of nominated persons	Serve as
1	Prof. I.K. Bhat, Chairman, BWC MNIT Jaipur, JLN Marg,, Jaipur – 302017	Director, Ex-Officio Chairman
2	Sh. Sanjeev K. Sharma, Director (NITs), Department of Higher Education Ministry of Human Resource Development Government of India Shastri Bhawan, New Delhi – 110 001	Nominee, MHRD
3	Sh. Manish Jindal, Registrar, PEC University of Technology, Sector – 12, Chandigarh – 160012	Nominee, BOG
4	Shri Krishna Maheswari, Superintending Engineer (Civil, Planning) CPWD Circle, Sector-10, Vidhyadhar Nagar, Jaipur	Expert from Civil Engineering
5	Sh. Arjun Singh, Managing Director, JVVNL Jaipur	Expert from Electrical Engineering
6	Prof. Rohit Goyal, Dean (P&D), MNIT Jaipur, JLN Marg, Jaipur – 302017	Dean, P&D
7	Prof. M.K. Shrimali, Registrar MNIT Jaipur, JLN Marg, Jaipur – 302017	Member Secretary



7. CONCESSIONS FOR SCs, STs, HANDICAPPED STUDENTS

7.1 CONCESSIONS PROVIDED FOR STUDENTS

Admission Policy

According to the admission rules laid down by the Govt. of India, the following reservations are made for admission to undergraduate courses at the MNIT, Jaipur. The same applies for Post Graduate courses

(i)	OBC candidates	27%
(ii)	Scheduled Caste candidates	15%
(iii)	Scheduled Tribe candidates	7.5%
(iv)	Physically Handicapped Candidates	3 %

Tuition Fee Waiver

Students belonging to SC/ST category are given 100% tuition fee waiver.

Library Facilities

There is a separate Book Bank for SC/ST students. The number of books issued to each SC/ST student is 11 in comparison to 6 for General students.

Scholarships

Various state governments and Board for Social Welfare provide scholarships to SC/ST students.

7.2 CONCESSIONS PROVIDED FOR STAFF

The reservation policy and other benefits as directed by Government of India from time to time are implemented.



8. FINANCIAL STATUS

8.1 ANALYSIS OF PLAN AND NON PLAN GRANT

During the year 2015-16 the institute received grant under Plan and Non Plan (entirely from Govt of India) as given below:-

(Rs. in Lakhs)

Plan Grants	
(i) Non recurring (Building, Equipment,etc)	7200.00
(ii) Project Grant (R & D)	1789.97
(iii) Other Plan Activities	278.14
(iv) TEQIP	250.00
TOTAL (Plan Grant)	9518.11

(Rs. in Lakhs)

Non Plan Grant	
(i) UG/PG Courses	3400.00
TOTAL (Non Plan Grant)	3400.00
GRANT TOTAL (PLAN & NON PLAN GRANT)	12918.11

8.2 SOURCE OF FUNDS

- (i) Grant in Aid from Govt. of India
- (ii) Tuition Fees from Students
- (iii) Rent
- (iv) Interest
- (v) Other Misc. Income

8.3 EXPENDITURE POSITION FOR THE LAST THREE YEARS

(PLAN, NON PLAN & TEQIP)

(Rs. in Lakhs)

Years	Expenditure
2013-14	14120.12
2014-15	16834.33
2015-16	19388.92

9. CENTRAL FACILITIES AND SERVICES

9.1.1 Computer Centre, MNIT Jaipur

Central Computer Centre:-

The Computer Centre, a centralized computing facility of the Institute since 1989, caters to the need of different academic departments and various sections of the Institute by providing and managing extensive computing & networking facilities to the Institute. To facilitate the use of the latest information technology in Institute's teaching, learning, research and administration; to provide an excellent network environment that facilitates the access and exchange of information; to put innovation in technology transfer; to assist the Institute in its mission; to enable faculty, staff and students to use the computer and network resources effectively and efficiently; and to aim to provide the best quality IT services in the region, the Computer Centre at MNIT Jaipur has continued to re-engineer the process of its service operations for increased productivity and better quality.

The **MNIT Private Cloud** using VMware has been setup in the **Data Centre** located in new Computer Centre. Computer Centre has been established on the first floor of **Prabha Bhawan** and was inaugurated by Prof. S.V. Raghavan on 19th October 2014.

There are many web based applications that are developed, successfully deployed and maintained by Computer Centre.

The MNIT website is restructured and reframed by Central Computer Centre. New website includes many features like dynamic faculty profiles, user friendly multi tab interface, scroll free GUI and quick search etc.

An NIT Council web application was designed, developed and is being maintained by Computer Centre to create an interface for all thirty NITs so that users can access information about all the NITs from a single platform.

Other applications developed and maintained by Computer Centre are:-

- (a) Online Ph.D. Application web portal.
- (b) MNIT 7th and 8th convocation online registration application.
- (c) Technical/Non-technical staff recruitment application.
- (d) Seat allocation program for CSAB-2014.
- (e) Hostel allotment portal.
- (f) Grade feeding application;
- (g) Conferences and seminar websites.
- (h) Alumni day registration portal
- (i) MRC (Material Research Centre) application: Under development
- (j) SMP (Student Mentorship program)

Data Centre:-

Emerson Smart Row solution for its Data Centre:-

MNIT has procured world class Emerson Smart Row solution for its Data Centre. A simple, fully integrated row-based infrastructure with precision cooling, power management, monitoring and control technologies, and fire suppression all in an enclosed system. This solution has a room neutral design that lets you avoid many of the significant costs that come with a conventional data centre build out. Favorable implementation



costs compared to using a conventional data centre approach, due to savings from integrated fire suppression and ability to work in an existing normal environment without dedicated room cooling reduce energy consumption by up to 27% compared to a data centre with conventional design, require less maintenance and reduce the costs of adding more racks to the existing solution.

Cisco Unified Computing System:-

MNIT has procured Cisco Unified Computing System, which is a next-generation data centre platform that unites compute, network, storage access, and virtualization into a cohesive system. The system integrates a low-latency, lossless 10 Gigabit Ethernet unified network fabric with enterprise-class, x86-architecture servers. The system is an integrated, scalable, multichassis platform in which all resources participate in a unified management domain. The main configuration of hardware procured include:-

- 432 Cores/864 vCPUs (Intel E5-2699v3)
- 12 CISCO M200 Servers, each with
 - 2X18 Cores Intel Xeon Processors
 - 512GB RAM per Compute server
 - 2X1 TB SAS (RAID0)
 - 2x10Gb Ethernet
- 2 X CISCO Fabric Interconnect
- 20 TB-EMC VNX 5200 Unified storage.

Software Licenses:-

Following software licenses have been procured and installed in the MNIT data Centre

- ∂ **IBM SPSS Licensing Server for 10 users** (predictive analytics software)
- ∂ **aspenONE License Server for 150 users**
- ∂ **VMWare vCloud Suites for 08 Processors.**

MNIT data centre is housing MNIT Private Cloud using VMware V Cloud Suite installed on Blade Server and core network switches with 2 Gbps lease line for internet connectivity.

MNIT Private Cloud is an IaaS service, which allows administrator to create Virtual data centres with virtual servers, machines and networks, expanding or reducing as their needs require, with this **Private Cloud**, MNIT users get both computational resources, and network License resources for their own exclusive use.

MNIT private cloud is running various applications/services used by student, faculty and Staff and many Virtual Machines (VMs) have been allotted to various research researchers

Computing Resources of Data Centre:

- ∂ **Blade Server:** There are total sixteen HP ProLiant BL460c G7 blades:
- ∂ Intel® Xenon® 5600 series 6/6 Core with HT processors,

- ∂ **10.8 TB SAN Storage:** Storage Controller: RAID 0 and 1HP Smart Array P410i Controller.
- ∂ **VMware Cloud Suite:** with four socket licence, VMware manages four HP blades and following storages.
- ∂ **EMC² Storages:-**
 - ✓ **ISILONS200 NAS Storage:** - 40 TB Raw
 - ✓ **VNX-5300 SAN Storage** :- 18 TB Raw
 - ✓ **AVAMAR M1200 Gen4S** :- 10 TB backup Appliance

Highlights of Data Centre

- Automated provisioning of IT resources
- Single interface for administrator for entire IT infrastructure
- Storage of lectures, assignments, notes
- Provide Data Storage to departments
- Provide High End Computational Resources for Research purpose
- Hosting various services like
 - MNIT Website <http://mnit.ac.in>
 - NIT Council Website www.nitcouncil.org.in
 - Intranet Web Application Hosting
 - Student-Student Mentorship Program Portal <http://smp.mnit.ac.in>
 - Portal for MRC <http://online.mnit.ac.in/mrc/>
 - DNS Server
 - Proxy server
 - LDAP Authentication Server for 6000 users
 - Software for Library Management - E-Granthalaya
 - Prowess Server (Database of the financial performance of Indian companies)

Various license Servers

- AutoCAD Licensing Server for 125 users
- MATLAB R2014b and Simulink License Server
- Hyperworks Licensing Server
- LMS Imazine.Lab License Server
- Autodesk_Inventor, 3ds_Max_Design, C3D, Map, Maya, MB, and Revit,
- JMat-Pro 8 License Server.
- ERDAS IMAGINE 2014 (Geographic Imaging solutions) and Hexagon Geo Media Desktop 2015.
- SimaPro 8 License server for 20 users
- ESET Anti virus server for 500 user license.
- Visual MODFLOW License server



Cloud Infrastructure

- NTP, DNS, DHCP Server for cloud infra
- VmwarevCenter Server
- IaaS Server & SQL Database Server
- VMware vCenter Operations Manager
- EMC Avamar Virtual Machine Combined Proxy.
- MNIT Domain Server for Cloud Infra
- Vmware Identity Appliance.
- VmwarevCloud Automation Center Appliance

Laboratory Resources:-

The Central Computer Centre has 510 high end PCs including 120 graphics work stations placed in TEN fully air conditioned computer laboratories with all modern teaching aids, which opens 24*7*365. The labs are equipped with following Software:-

1. AutoCAD Complete Suite 2016

Computer-aided design (CAD) is the use of computer systems to assist in the creation, modification, analysis, or optimization of design. Computer-aided design is used in many fields. Its use in designing electronic systems is known as electronic design automation, or EDA. In mechanical design it is known as mechanical design automation (MDA) or computer-aided drafting (CAD), which includes the process of creating a technical drawing with the use of computer software.

Product	Module/ component	License	Department
AutoCAD Complete Suite 2016	Fusion 360	120	Department of Civil Engineering, Department of Architecture and Planning
	Inventor Professional	120	
	Revit	120	
	Autocad	120	
	3dsmax	120	
	Maya	120	

* License Type: Network



2. AutoCAD Complete Suite 2016 Educational version Licences

Product	Module/ component	License	Department
Product Design Suite Ultimate	Included products Inventor Professional AutoCAD AutoCAD Mechanical AutoCAD Raster Design Recap Vault Basic 3ds Max Design Navisworks Manage AutoCAD Electrical	125	Department of Civil Engineering, Department of Architecture and Planning
Building Design Suite Ultimate	Included products AutoCAD AutoCAD Architecture AutoCAD MEP AutoCAD Structural Detailing Showcase AutoCAD Raster Design	125	Department of Civil Engineering, Department of Architecture and Planning
	Recap 3ds Max Navisworks Manage		

* License Type: Network

3. HyperWorksVersion 13.0

HyperWorks 13.0 provides the most comprehensive, open-architecture, multiphysics CAE platform to enhance product performance, design lightweight components, get products to the market faster and access to new technologies.

Product	Module/ component	License	Department
HyperWorks version 13.0	Optistruct	120	Department of Civil Engineering, Department of Architecture and Planning
	Radioss	120	
	Acu solve	120	
	Hypermesh	120	
	Hyper view	120	
	Hyper graph	120	
	Inspire	120	
	Evolve	120	



Product	Module/ component	License	Department
	Virtual Mind Dunner	120	
	Hyper Study	120	
	Motion View	120	
	Motion Slov	120	
	Sim lab	120	
	Hyper Crash	120	
	Hyper Math	120	
	Hyper Form	120	
	Hyper Xtrude	120	

* License Type: Network

4. ERDAS IMAGINE 2014

ERDAS IMAGINE is a remote sensing application with raster graphics editor abilities designed by ERDAS for geospatial applications. The latest version is 2015. ERDAS IMAGINE is aimed primarily at geospatial raster data processing and allows the user to prepare, display and enhance digital images for mapping use in geographic information system (GIS) or in computer-aided design (CAD) software.

Product	Module/ component	License	Department
ERDAS IMAGINE 2014	ERDAS Foundation	15	Department of Architecture and Planning
	ERDAS IMAGINE	15	
	ERDAS IMAGINE 2015 v15.1	15	
	Intergraph Licensing 2015	15	
	ERDAS IMAGINE 2015 Geodatabase Support	15	
	Condor for Intergraph 2015	15	
	ERDAS IMAGINE Remote Sensing Example Data	15	

* License Type: Network

Bentley Software:-

Product	Module/ component	License	Department
Bentley SELECT	STAAD Pro Adv. Analysis	10(Subscription till 31 March 2016)	Department of Civil Engineering, Department of Architecture and Planning
	STAAD offshore	10	
	STAAD beava	10	
	STAAD(X).Tower	10	
	RAM Steel	10	
	RAM Frame	10	
	RAM Foundation	10	
	RAM Concrete	10	
	RAM Elements	10	
	RAM Connection	10	

* License Type: Stand Alone



5. Adobe Master Collection CS 6

Adobe® Creative Suite® 6 Master Collection software. Adobe Creative Suite (CS) was a series of software suites of graphic design, video editing, and web development applications

Product	Module/ component	License	Department
Adobe Master Collection CS 6	What's inside Master Collection	10*	ALL Departments
	Photoshop Extended CS6 Photoshop CS6 Extended		
	Illustrator CS6 Illustrator CS6		
	InDesign CS6 InDesign® CS6		
	Acrobat Pro DC Acrobat® X Pro		
	Flash Professional CS6 Flash® Professional CS6		
	Flash Builder Flash Builder® 4.6 Premium Edition		
	Dreamweaver CS6 Dreamweaver® CS6		
	Fireworks CS6 Fireworks® CS6		
	Adobe Premiere Pro CS6 Adobe Premiere® Pro CS6		
	After Effects CS6 After Effects® CS6		
	Adobe Audition CS6 Adobe Audition® CS6		
	SpeedGrade CS6 SpeedGrade™ CS6		
	Adobe Prelude CS6 Prelude™ CS6		
Encore CS6 Encore® CS6			
Bridge CS6 Bridge CS6			
	Media Encoder CS6 Media Encoder CS6		

* License Type: Stand Alone

6. JMat Pro-v8

JMatPro® is a simulation software which calculates a wide range of materials properties for alloys and is particularly aimed at multi-components alloys used in industrial practice. JMatPro is a powerful tool for modeling materials properties and behaviors for complex commercial alloys. Using JMatPro you can make calculations for: Stable and metastable phase equilibria, Solidification behavior and properties, Mechanical properties, Thermo-physical and physical properties, Phase transformations, and Chemical properties.

Product	License	Department
JMat Pro-v8	10 (Ten)	Metallurgical and Material Engineering

* License Type: Network

7. LMS Imagine.LabAmesim 11.2.0

LMS Imagine. Lab Amesim software package is a suite of tools used to model, analyse and predict the performance of mechatronics systems. Models are described using nonlinear time-dependent analytical equations that represent the system's hydraulic, pneumatic, thermal, electric or mechanical behaviour. Compared to 3D_CAE modelling this approach gives the capability to simulate the behaviour of systems before detailed CAD geometry is available, hence it is used earlier in the system design cycle or V-Model.



Product	License	Department
LMS Imagine. Lab Amesim 11.2.0	03	Department of Mechanical Engineering

* License Type: Network

8. SimaPro 804:

SimaPro provides us a professional tool to collect, analyze and monitor the sustainability performance of products and services. SimaPro comes fully integrated with various databases and impact assessments, and is used for a variety of Life Cycle Assessment Applications.

Product	License	Department
SimaPro 8.0	20	Department of Environment and Energy Studies

*License type: Network

9. MATLAB R2014a & Simulink Software:-

MATLAB[®] (MATrix LABoratory) is a high-level language and interactive environment for numerical computation, visualization, and programming. Using MATLAB, you can analyze data, develop algorithms, and create models and applications. The language, tools, and built-in math functions enable you to explore multiple approaches and reach a solution faster than with spreadsheets or traditional programming languages, such as C/C++ or Java[®]. You can use MATLAB for a range of applications, including signal processing and communications, image and video processing, control systems, test and measurement, computational finance, and computational biology. More than a million engineers and scientists in industry and academia use MATLAB, MATLAB is widely used in academic and research institutions as well as industrial enterprises. MNIT has purchased Simulink with 50 Licenses & MATLAB R2014a with 100 licenses and following toolboxes.

Bioinformatics Toolbox	Optimization Toolbox	MATLAB Builder JA
Communications System Toolbox	Parallel Computing Toolbox	MATLAB Builder NE
DSP System Toolbox	Real-Time Windows Target	MATLAB Coder
Aerospace Blockset	SimDriveline	MATLAB Compiler
Aerospace Toolbox	Partial Differential Toolbox	MATLAB Report Generator
Neural Network Toolbox	Phased Array System Toolbox	Mapping Toolbox
Computer Vision System Toolbox	RF Toolbox	Model Predictive Control Toolbox
Control System Toolbox	Robust Control Toolbox	Model-Based Calibration Toolbox
Curve Fitting Toolbox	Signal Processing Toolbox	Spreadsheet Link EX
Data Acquisition Toolbox	SimBiology	Stateflow
Database Toolbox	SimElectronics	Statistics Toolbox
Datafeed Toolbox	SimEvents	Symbolic Math Toolbox



Econometrics Toolbox	SimHydraulics	System Identification Toolbox
Embedded Coder	SimMechanics	SystemTest
Filter Design HDL Coder	SimPowerSystems	Trading Toolbox
Financial Instruments Toolbox	SimRF	Vehicle Network Toolbox
Financial Toolbox	Simscape	Wavelet Toolbox
Fixed-Point Designer	Simulink 3D Animation	OPC Toolbox
Fuzzy Logic Toolbox	Simulink Coder	Image Processing Toolbox
Gauges Blockset	Simulink Control Design	Instrument Control Toolbox
Global Optimization Toolbox	Simulink Design Optimization	LTE System Toolbox
HDL Coder	Simulink Design Verifier	Simulink Report Generator
HDL Verifier	Simulink PLC Coder	Simulink Verification & Validation
Image Acquisition Toolbox	Simulink Real-Time	Simulink® Code Inspector™

10. Visual MODFLOW:-

This is Hydrogeology software. This is used for conceptual model of the groundwater system, prior to the simulation. The geological formations, property model, and boundary conditions are all designed outside the model grid or mesh. This allows the flexibility to adjust your interpretation of the groundwater system before applying a discretization method and converting to a numerical model.

Product	License	Department
Visual MOD Flow	5	Department of Civil Engineering

*License Type:-Network

11. The Language Laboratory is equipped with the following latest softwares:

- ✓ Tense Buster
- ✓ Study Skills Success
- ✓ Clear Pronunciation
- ✓ Clear Pronunciation 2
- ✓ Clarity English Success
- ✓ Business Writing
- ✓ It's Your Job
- ✓ Active Reading
- ✓ Issues in English 2- International
- ✓ Author Plus
- ✓ Result Manager

9.1.2 NKN (NATIONAL KNOWLEDGE NETWORK) AND CWN (CAMPUS WIDE NETWORKING)

- ∂ MNIT Jaipur has recently expanded its VC Infrastructure by establishing its own Centralised Control Centre for Videoconferencing Services including MCU upto 160 ports, Recording &



streaming server, video firewall, video gateway, conference management & monitoring systems etc. Also three new Virtual classrooms have been recently developed with state of the art facilities & well equipped with latest technological upgrades available in fields of audio/video & videoconferencing technologies. It removes the dependency of MNIT over NIC for VC Infra and also allows hosting multiple VC events simultaneously and parallelly.

- ∅ MNIT Jaipur is offering regular courses via distance teaching to IIT Jodhpur (Two courses for ECE & CSE) since last two academic years. IIT Kota is also benefitted from NKN virtual classrooms using it as a platform for online presentations of abroad faculty interviews & research scholar presentations. MNIT is also utilizing the NKN VCRs by actively involving in MHRD initiatives for knowledge & resource sharing like GIAN, ICT Academia etc.
- ∅ Regular PRSG meets are held using VC Infra. MNIT is also actively participating in MHRD hosted conferences like Unnat Bharat Abhiyan, TBI meets etc. Also modernisation of old NKN room with technological upgradations while integrating with existing VC Infra setup is also in progress.
- ∅ Tender has been prepared for upgradation of Campus Network with 144 Core Fibre Optic Backbone providing LAN at 10G upgradeable to 40G. The end access level points will be on 1G. The project also includes entire campus being Wi-Fi enabled in line with Digital India Initiative. Faculty and Staff residences will be on Gigabit Passive Optical Network (GPON) for Data and Voice connectivity. IPABX for IP Phones and EPABX facility will be integrated into the network. This will facilitate all students to access online content and video lectures round the clock at any location on the campus.
- ∅ NKN is providing 1 Gbps and we have procured 1 Gbps broadband access from BSNL (1:1). We are requesting NKN to provide additional 1 Gbps. NKNs requirement of a proprietary Firewall / Unified Threat Management (UTM) and compliance of storing logs for a certain period of time will be met as the tender is being evaluated for procurement of such a device.
- ∅ Faculty are being encouraged to make use of the high speed broadband network access for generation and dissemination of knowledge in various areas, live consultations, data sharing and resource sharing.
- ∅ Students are encouraged and facilitated to use NKN to access elective / specialized programmes in other NITs in the network.
- ∅ Many of the Faculty Development Programmes under Global Initiative for Academic Networks (GIAN) and Electronics and ICT (EICT) Academy are made available for various institutions and individuals over NKN through respective portals.
- ∅ The address of Hon'ble Visitor to faculty and students of MNIT Jaipur are facilitated at the pleasure of Hon'ble Visitor
- ∅ An e-governance project is in place and faculty, staff and students are using it efficiently. The same may be integrated with NKN software.
- ∅ A private cloud is being set up at MNIT Jaipur with HP blade servers, VMware software and EMC2 storage. Research and Educational Content will be stored and e-content generation of faculty will be planned in a phased manner.
- ∅ Collaborative M. Tech programmes over NKN are welcome.
- ∅ Faculty will be motivated to majorly focus their research on Science, Engineering and Technology related to education, health and agriculture.
- ∅ Faculty and students will use technology and research to address local problems of the city Jaipur in particular and the state of Rajasthan in general



- o Collaborations with International Institutes and Universities on research, knowledge sharing and student exchange programmes are in place

9.1.3 LANGUAGE LAB:

There is one language lab in Computer Centre. This lab has 20 computers with language learning softwares Clear Pronunciation, Study Skills Success, Clarity English Success, Business Writing, Active Reading and Tense Buster, etc.

9.2 WORKSHOPS

Central workshop is a central facility with state of the art machines to meet the following objectives:

1. To impart training to the students of all branches of 1ST Year B. Tech in various shops.
2. To impart training on latest machine tools to B. Tech. (Mechanical Engineering) and M. Tech. (MSE) Students.
3. To provide the workshop facilities for fabrication of minor and major projects to the students of all branches.
4. Central workshop has state of the art machine tools and equipment required for carrying out research work at M. Tech and Ph. D. level in all the departments and sections of the institute.
5. To develop a project lab which will have all basic tools required for carrying out projects of all the Departments of the institute. This project lab will open for 24 hrs.
6. To ensure safe working environment for staff and students.
7. Upkeep of institute furniture and other infrastructures.
8. To provide consultancy to industries/ organizations thereby improving Institute-Industry relationship.
9. Along with the above mentioned primary objectives the workshop would also be used for community development activities such as organizing training programs for society and staff.

Project lab will be a central facility with state of the art machines to meet the following objectives:

1. To provide workshop facilities for fabrication of minor and major projects to the UG/PG students of all branches.
2. The project lab would have state of the art machine tools and equipments to facilitate the research work at M. Tech and Ph. D. level in all the departments and sections of the institute.
3. The project lab shall be hub of innovations and shall help in registering patents for the same.
4. The project lab shall be managed by students under the guidance of coordinator Project Lab.
5. It will also showcase its innovations through exhibitions twice a year. These exhibitions shall be organized in collaboration with Industries.
6. This project lab will be open 24 hrs.

9.3 LIBRARY

1 Total Floor Area : 15847 sq feet (space per student – about 7.5 sq feet)

The Central Library is located in the Centre of the Institute, where visitors can approach easily. It has



15847 Sq.foot plinth area in two floors (Ground and First). It is well equipped with new and modern furniture (make **Godrej**) including optimizers (stacks on tracks). The sitting area of the users is **fully air conditioned** under the **CCTV Surveillance System** and also having **Smoke Alarm System**. Each sitting area / hall is having different reading cubicles for the users. The Central Library was reintroduced with new name i.e. “**LEARNING RESOURCE CENTRE**” in April,2012.

2 Library Automation and Computerization

Following recent developments have been taken place in the Central Library:-

- 2.1 Library Database on KOHA (Library Management Software)
- 2.2 RFID System for Smart Circulation with Gate Antenna
- 2.3 Smart Card Technology

3. Members (approx)

- a) Students 4454
- b) Faculty and staff members 480

4. Circulation of Books (approx)

- a) Main Library 85,100 per year
- b) Book Bank 63,200 per year

5. No. of Visitors (approx)

1900 Per day

(Faculty, Staff, Students and fee based outside members)

6. Timings

08.00 A.M. to 10.00 P.M. (Monday to Friday)

09.00 A.M. to 06.00 P.M. (Saturday & Sunday)

7. Holdings from 01/04/2015 to 31/03/2016

S.No.	Particulars		As on 31/03/2015	Added During 2015-2016	As on 1/04/2016	Withdrawn	Available holdings
1	Library	Print Books	89138	112	89249	3352	*85897
		e-Books	3073	-	3073	-	3073
2	Back Volumes		13580	-	13580	120	13460
3	BIS Codes		12498	-	12498	-	12498
4	Book Bank (Gen.)		51,585	61	51645	-	*51645
5	Book Bank (SC/ST)		19022	-	19022	-	*19022
6	CBIP Publications		531	-	-	-	531
7	CD ROMs Databases+ LRs (on different Subjects)		846	-	-	-	846
TOTAL HOLDINGS AVAILABLE							1,86,972
* PHYSICAL VERIFICATION WAS CONDUCTED AND FINAL REPORT IS TO BE SUBMITTED.							



8 NON PRINT MATERIAL

Total Numbers

- 1 Video Cassettes 1035
- 2 CDs & etc. (Received with books & magazines) approx.1000

9. Expenditure – (from 01/04/2015 to 31/03/2016)

9.1 Printed Books etc.

<i>S. No.</i>	<i>Heads</i>	<i>2015-2016 (in Rs.)</i>
1	Book Bank (Gen)	3825.00
2	Subscription of Print Journals	Paid-1500.00 Proposed-1,54,843.00
3	Newspapers & Magazines	64,422.00
	Total	2, 24,590.00

9.2 Expenditure on Online Resources (Plan Budget)

(i) Subscription of Online Journals & Databases	Paid	Rs. 16, 20,127.00
	Proposed	Rs. 2, 85,323.00
	Total	Rs. 19, 05,450.00
Grand Total (9.1+9.2)		Rs. 21, 30,040.00

9.3 Other Expenditure

(Delnet, Binding, Misc.) **Rs. 3, 65,240.00**

10 Print Journals:

- 10.1 Subscribed 85
- 10.2 Complementary Journals / Newsletters report etc.(approx) 70



11. Electronic/Online Resources & Databases:

S. No.	e-Resources	URL
I Online foreign journals (INDEST-AICTE Consortium, MHRD, GOI)		
01	ACM Digital Library	http://portal.acm.org/portal.efm
02	ASCE e-Journals	http://www.ascelibrary.org
03	ASME e-Journals	http://www.asme.org/pubs/journals
04	Springer Link	http://www.springerlink.com/
II Online Journals subscribed by MNIT Jaipur		
01	Taylor & Francis	www.tandf.com
02	Emerald (200 Journals)	www.emeraldinsight.com
03	SAGE Pub., New Delhi	http://online.sagepub.com http://jax.sagepub.com/
04	Science Direct(ELSEVIER PUBLISHERS)	http://www.sciencedirect.com/
05	IEL Online Journals	http://ieeexplore.ieee.org
III Bibliographic Databases		
01	Access Science Database (for Civil, Mech. & Arch.)	http://mhebooklibrary.com
02	PROWESS (Multi User LAN Version containing Financial databases of 27000 Indian companies.)	http://prowess.cmie.com
03	Economic Research (Eco View) + Industry Research on 10 industries	www.crisilresearch.com
IV J-GATE AGGRIGATOR of all Subscribed online Journals		

12. e-Books (3073Nos) (Purchased on perpetual basis)

S.No	Subject	Product/ Publication Package	No.of e-Books	Publisher	URL ADDRESS
1	Civil Engg.,	Custom Collection of Civil Electrical, ECE	37	Pearson Edu.	MyiLibrary – http://lib.mylibrary.com
	Electrical Engg.		92		
	ECE Computer Sc. & I.T.	CS+IT	169		
2	Electrical Engg.	List of three books	03	Cengage Learning	http://infotrac.galegroup.com/itweb/inmalviya



3	Mechanical Engg. & Industrial Engg. Electrical & ECE	i e- Books –Mechanical Engg. ii e- Books Industrial Engg. iii e- Electrical and Electronics Cluster	37 39 64	McGraw Hill	http://mhebooklibrary.com
4	Civil , Electrical ECE, Mechanical Engg. Mathematics	Package of- i. Engineering ii. Earth & Env. Sc. iii Mathematics and Statistics	775 285 535	Springer	www.springerlink.com http://link.springer.com
5	Mechanical Engg. Electrical Engg & ECE	Package of the e-Books of subject concerned	50 79	Tata McGraw Hill (TMH)	URL: www.mylibrary.com/
6	Electrical Engg. Electronics & Commn. Mechanical Engg. Industrial Engg. Computer Engg. Metallurgical & Mat.Engg. Civil Engg. Chemical Engg. Architecture (T&F) <u>Complimentary e-books (with T& F Package)</u> Metallurgical & Mat. Engg. Mechanical Engg. Industrial Engg.	Electrical Engg. Electronics & Comm. Mechanical Engg. Industrial Engg. Computer Engg. Materials Sc. Civil Engg. Chemical Architecture (T&F) <u>Complimentary e-books (with T& F Package)</u> Materials Sc. Mechanical Engg. Industrial Engg.	70 118 99 76 37 34 19 30 25 32 221 143	CRC Press and Taylor & Francis (T&F)	URL www.tandfonline.com
7	Humanities & Social Sc.	1) Encyclopedia of Governance, 2) Hand book of International Relations 3) The SAGE Handbook of Governance 4) The SAGE Handbook of Sociology Religion	04	Sage Pub.	http://knowledge.sagepub.com



Other Online Resources/Databases

1. **BIS Codes** updated till June, 2009 (Through Intranet)
2. **CD-Rom Databases** (846 CD-ROMs on engineering subjects)
3. Access to **Bibliographical Databases** of foreign journals more than 6500 journals being received by IITs & IIS Bangalore and IIMS (Users receive Research papers by submitting their requests through JCCC) under **INDEST–AICTE Consortium**.
4. **DELNET Database** services for research papers & Books.

13. Library & Information Services

1. Issuing of books (Main Library)
2. Issuing of books (Book Bank) (Extra books are issued to students of SC & ST)
3. Video Viewing Services
4. CD-ROM Databases
5. Reprographic Services (Photocopy Services)
6. Periodicals Services
7. Internet facility (Wi fi)
8. J-Gate Services
9. DELNET Services
10. Inter Library Loan (ILL) Services through DELNET
11. Reference Services
12. BIS and IRC Codes
13. Attending Users queries
14. Display of New Arrivals
15. Display of Important notices/ pamphlets etc.
16. Services to outside members

14. Orientation to and PG and Research Scholars

PG Students, Research Scholars and Faculty Members are also guided to use the **INDEST-AICTE Consortium** services and **DELNET Database** services.

15. Additional information

- (i) **Display of New Arrivals** : Newly Purchased books are displayed in the Central Hall to make the users aware about new arrivals.
- (ii) **Database of Thesis & Dissertation** : submitted to the institute have been entered and available on OPAC.
- (iii) Web-OPAC Users can access the Library database from across the Globe.

16. Created Silent Zone for PG & Research Scholars.

17. Brochure of Central Library.

18. Other Activities

- 18.1 Orientation to users about Online Access to e-Journals.
- 18.2 SSMP Oriented all new entrants about Library & its services.
- 18.3 Organised '**Books Exhibition**'.
- 18.4 Meeting Room facilities to various departments for organizing Meetings, Talks, Seminars etc.
- 18.5 Binding of books (time to time)

19. FUTURE PLAN:

- 19.1 Fire Safety Measures with Smoke Alarm System.
- 19.2 Purchase / subscription of e-Books and e-Journals on Various subject areas of E.S.T.
- 19.3 LED lights in entire Library.
- 19.4 Fitting of Air Conditioned in remaining part of Library

9.4 LABORATORIES

In addition to Central workshop and Central computer Centre, each department has laboratories in their specific areas of specialization. These laboratories are being used for conducting experiments for B.Tech and M. Tech. students for their regular course work and also for research purposes. Few more laboratories have also been created to cater to the needs of research scholars. These laboratories provide facilities for research and are being used by faculty, Ph.D. and M.Tech. students.

National Level Laboratories are also established in MNIT, Jaipur.

9.5 PHYSICAL FACILITIES

The Campus of the Institute is spread over an area of 125.04 hectares. It presents a spectacle of harmony in modern architecture, natural beauty and picturesque surrounding. The campus area has been organized into three functional sectors:

1. Instructional Buildings/ Vivekananda Lecture Complex
2. Ultra-modern Corporate Office
3. Residential Area for the Faculty & Staff
4. Hostels for Students

The instructional buildings and Vivekananda Lecture Complex have been so located that these are fairly near to both the hostels and the staff quarters. Vivekananda Lecture Complex has 34,360 square meters covered area and has been built at an expenditure of Rs 80 crores. The building is centrally air-conditioned with 43 theatres with a seating capacity of 120 people and 6 theatres with a seating capacity of 240 people. These classrooms are smart classrooms and are equipped with all needful systems. As a commitment towards green buildings, solar panels are being put up on almost all Institute buildings to generate electricity.

There is a branch of ICICI Bank Ltd. and SBI on the premises and a Post-office in the campus. The



ICICI Bank has installed an ATM on the campus.

An ultra-modern Corporate Office and Computer Centre have been developed and a Digital Library is being developed, having a carpet area of 20,000 square meters, for the students and faculty members of the institute. The building houses the entire Administrative and Accounts Section, Establishment and Academic Staff office, Director's office, Deans' office, Registrar's office, Training & Placement office with banking and post office services.

A team of Medical Officers and two Compounders supervises a full-fledged dispensary. The Institute has also been extending facility of a Part-time Homeopathic doctor, Ayurvedic and a Lady Doctor in the campus. Adequately equipped Canteen building, one near the instructional zone and one near the hostels provide facilities to the students and the staff during and beyond the working hours of the college. There is a milk booth on the campus, a barber's shop, washer men, stationary shop and a government co-operative store to provide amenities to the residents.

9.6 Games and Sports Facilities

Utilization:

All sports ground are most of the times (in morning and evening hours) seen occupied by the students, staff wards and the staff of the institute towards their activities in games and exercises.

Existing Infrastructure:

Outdoor Games/ sports facility

1. Basketball (Two Courts with flood lights)
2. Volleyball (Three Courts with flood lights)
3. Tennis (Three Synthetic Courts with flood lights)
4. Cricket (Two cemented pitch and one cricket pitch)
5. Football (Two Courts)
6. Athletic Ground

Indoor Games/ sports facility

1. Badminton (One Synthetic Court)
2. Billiard (One Table)
3. T.T.
4. Chess
5. Gym

Outdoor Games

Basketball (Two Courts with flood lights): There are two Basketball courts available and their structure follows the FIBA (Federation International Basketball Association) standard with sufficient space around. There are stairs in one side of the court for watching matches.

Volleyball (Three Courts with flood lights): There are three Volleyball courts are available according to the FIVB (Federation International De Volleyball) standard with sufficient space around. There are sufficient spaces for watching matches.

Tennis (Three Courts with flood lights): The Institute is preparing 03 Synthetic courts with flood light.

Cricket (Two cemented pitch for practice and one cricket pitch): There is a common playfield of Cricket and Athletic with sufficient space around. There are stairs in one side of the field for watching cricket matches.

Football (Two Fields): There is a common playfield where two green Football fields are available according to the FIFA standard with sufficient space around. There are stairs on one side of the field for watching matches.

Athletic: (One Track): There is a common playfield where the Track and Field is prepared before any tournament with sufficient space around. There are stairs on one side of the field for watching athletic performances.

Indoor Games

Badminton (One Court): There is one covered Badminton court available according to the BWF standard with sufficient space around. There are sufficient space for watching badminton matches.

Table Tennis: There is no permanent Table Tennis facility in the institute. Temporarily it is being played in the OLH.

Chess: There is no any permanent Chess facility in the institute. Temporarily it is being played in the badminton Hall and sometimes in the Basketball Stadium.

Billiard (One Table): We have only one standard size billiards table with all necessary accessories.

Gymnasium Hall: There is a standard Gymnasium hall in the institute. Gymnasium equipments are in the process of purchase. Engineering students are more interested in physique & physical culture. Institute team is winning positions in most of the tournaments for Power Lifting and Best Physique.

Proposed Addition:

1. Leveling of surface is about to begin soon for proposed new cricket ground.
2. Approval already taken to build facilities for various games to be named as **New Sports Complex**, which will comprise of squash court, badminton court, basketball court, volleyball court, changing rooms and office premises.



9.7 OTHER FACILITIES LIKE, HOSTELS, MESSES, STAFF QUARTERS, ADMINISTRATION ETC.

There are twelve hostels for the students of our Institute. The details of rooms are as follows:

Hostel No.	Single Seated Rooms	Double Seated Rooms	Triple Seated Rooms	Total Capacity
Boys' Hostels				
Hostel - 1	72		36	180
Hostel - 2	72		36	180
Hostel - 3	72		36	180
Hostel - 4	72	36		144
Hostel – 5	182			182
Hostel – 6	72		36	180
Hostel – 7			75	225
Hostel – 8	212			212
Aurobindo Hostel	986			986
Girls' Hostel				
Girls Hostel A Block	48		14	90
Girls Hostel B Block		68		136
Gargi Hostel	400			400
P.G. Hostel	16			16
MSH	8			8
GRAND TOTAL	2212	104	233	3119

Administrative set up for Hostels

Chief Warden	1
Warden	17
Mess Assistants	5
Caretakers	2

Hostel/ Mess Management

Presently we have mess facility in all hostels except Hostel no. 3, 4 and 5. The residents of these hostels are dining in messes attached with other hostels. The Mess in Aurobindo Hostel and Gargi Hostel (also catering to residents of Girls Hostel A and B Block) are being operated by private service provider. All messes have been renovated and have modern facilities to facilitate proper hygiene.

Mess Committee consisting of Mess Secretary and Student representatives mess members manage the mess. Entire salary of the mess servants is borne by the students themselves through MNIT Students Mess account.

Laundry Facilities

Modern laundry facilities have been installed in Aurobindo Hostel and Gargi Hostel for residents of Boys and Girls Hostel. Students are using these facilities through prepaid smart cards.

Other Facilities

There is one Common Room for each hostel, having the facility of a colour television, and one Table Tennis table.

Staff Quarters

The details of Staff quarters is as follows

	Type	Nos.
1.	A	01
2.	B	17
3.	C	20
4.	D	78
5.	BH	8
6.	WWH	12
7.	F	66
8.	H	52



10. NOTABLE DEVELOPMENT AND ACHIEVEMENTS

10.1 RESEARCH, DEVELOPMENT AND CONSULTANCY

The institute has been actively engaged in research, consultancy and development activities. The institute collaborates with premier industrial groups and R & D organizations. In this year more than 25 new projects with a total funding of 4.9 crores have been granted to the institute. The institute at present is handling 140 sponsored R&D projects by different funding agencies besides 220 consultancy projects worth 2.8 crores have been carried out in the institute. The institute pursues research in the Thrust areas, such as, solar energy, development of low cost high output prototype micro channel reactor for liquid-liquid extraction, x-ray absorption spectroscopy, robotic technology, intelligent controls, E-management, development of efficient turbo codes for 3G 4G mobile, etc. Concrete floor with anti-skid, water technology, defluoridation for water purification, experimental and modeling studies for process parameters, Rajasthan refinery township projects, climate change, energy efficient buildings, disaster mitigation management and many others. Funds for the projects have been granted by international agencies like UKIERI, DST, DAAD DOE-USA, Indo-US Science and Technology forum, Norwegian embassy, Ministry of New and Renewable Energy, Ministry of Human Resource Development, ODC-OFMK, Indian Council for Medical research, British Council etc.

Some of the major projects being carried out include research on advance green medicinal chemistry, research on various applications of stone waste, security analysis framework for Android platform, establishment of Indo-US joint centre for building energy research and development and others.

The institute has been awarded a project from Department of Science & Technology for the development of National standards on Base Isolation system. The objective of the project is to design and develop prototype base isolation systems for seismic hazard mitigation. We are planning the specialized construction for this national facility for testing. The design, planning and estimation work has already started.

10.2 INTERNATIONAL AND NATIONAL COLLABORATIONS

Collaborations are crucial to the accomplishment of high academic standards. These exchanges enrich the faculty and students who get an opportunity to interact and create linkages for future collaborations. It is important that the collaboration is beneficial to both sides and as such the institute has signed MoUs and collaborations with the University of Saskatchewan, Dundee UK, NDSU Fargo USA, Stevens Institute of Technology, USA, Minnan Normal University China, HUDCO, Centre for development of Stones (C-Dos) and more.

Recently three delegations of faculty members have visited various reputed institutes in different parts of the world for extension of existing MoUs. Some more collaborations are likely to come through with the Ohio state University USA, the University of Illinois, Urbana - Champaign, USA, York University Canada, Toronto University, Calgary University Canada, Bordeaux University, France and universities in Taiwan, Korea and Singapore where discussions are going on for identifying specific areas of collaboration. This is expected to broaden the horizons for the students and faculty.

10.3 INFRASTRUCTURE DEVELOPMENT

The Vivekanand Lecture Theatre Complex (VLTC) is near completion stage. It has all centrally air-conditioned classrooms with the facility of passenger lifts, modular furniture, cafeteria, security systems and smart classrooms. All these will be made available by the start of next academic session. As a commitment towards green building all openings of rooms are covered with energy efficient windows and roof-top solar panels being installed to provide a self-sustainable energy solution.

The three synthetic tennis courts added to the sports infrastructure have received overwhelming response and this has encouraged us to create a new widespread all inclusive sports complex. The execution of the sports complex is under tendering stage. It would contain two basket ball courts with synthetic turf, badminton courts, Table tennis, billiards, squash, weight lifting and training centre, carom chess and other sports amenities. Besides all these, the sports complex which may well be the largest in the state of Rajasthan, will have many distinct and magnificent features like yoga and meditation centre, physiotherapy centre, bio-mechanics lab etc. The centre will serve as an incubator for future champions.

Some new projects in the offing are: extension of the Architecture department, construction of the carpentry workshop, construction of incubation centre, new girls' hostel and married students' accommodation.

The institute has been granted sanction and approval for a 3 MLD potable water connection from the Bisalpur waterline from PHED of the Govt. of Rajasthan. Very soon this connection will be functional and the institute tube wells and ground water will have sufficient quantity for consumption. In order to optimize utilization of available water we have constructed and developed Sewage Treatment Plant of 1 MLD which is presently functioning at 500 kLD capacity. This capacity is likely to be expanded soon. The treated water is being used in gardening and making the campus green. A fully automated widespread irrigation network system containing drip-irrigation, rain guns and sprinklers is being planned. The system is designed for the entire campus as per optimum water requirement based on scientific analyses and work will start soon.

The infrastructure development is continuing in all direction and provision for passenger lift for differently-abled persons, renovation and refurbishment of department, new laboratories solid waste management, installation of security systems, cleaner toilets are on track to add to the convenience of the institute family.

COMPUTER CENTRE

The new Computer centre which also includes the data centre and the language lab was inaugurated by Prof. S.V. Raghavan, Former scientific secretary to the Government of India. The centre has 510 high end PCs including 120 graphic work stations placed in 10 laboratories. These provide computational facilities to all students, faculty and researchers. The centre is open 24/7/365.

Data centre using private cloud using VMWare cloud suite has also been established. The MNIT private cloud houses services like LDAP, MNIT website, NIT Council portal and various software licenses. The data centre is equipped with 60 TB storage.

The computer centre administers and manages the entire campus wide network. The staff at the computer centre has developed many web-based applications in-house, these include the institute website, semester registration, hostel allotment, and websites for conferences organized. Admission applications, recruitment processes for MNIT, NIT Delhi and NIT Jalandhar are also managed by the centre.

MATERIALS RESEARCH CENTRE

The MRC has acquired state of art equipment including Confocal RAMAN, LN2 Plant, Materials studio-modeling software, Masked Planner Milling System, UTM, XPS, EBSD, Impedance analyzer, Zeta Potential Analyzer and others.

The centre hosted visitors and invited lectures from eminent persons including Prof. Goverdhan Mehta, Prof. M. M. Sharma, Prof. Surendra Prasad, Prof. Srikumar Banerjee, Prof. Kishan Lal, Dr. H.N. Ghosh, Dr. A. Basu, Dr. Marc J. Madou, Prof. D P Agarwal, former chairman UPSC, Dr. Shailendra Kumar from Oxford University, Dr. D.D. Sharma from IISc. Bangalore, Dr. Kiezo Murata from Osaka City University. Japan Dr. Chandra S. from CEERI, Directors and many Professors from IITs and other national institutes of importance among others.



10.4 CENTRALIZED ADMISSIONS ORGANIZED BY MNIT

MNIT organized the common counseling for admissions to NITs and IIITs for foreign student through DASA.

10.5 STUDENT ACTIVITIES

An educational institution is, to borrow from Lincoln of the students for the students and to some extent by the students. The students of MNIT have been constructively active in co-curricular and extra-curricular activities.

Digital India week with competitive entries in research, papers, posters, skits, 3-D modeling, digital photo art, websites, animation, games, designing toolkits and handbooks, and hackathon was organized. A panel discussion with young authors from the Jaipur Literary festival was organized

5 students were nominated to Indian student Parliament at MIT Pune, 2 students were nominated to Indian Youth delegation to promote mutual understanding of culture and values, 2 students were nominated to in-residence program for NIT scholars at Rashtrapati Bhawan, 2 students were nominated to the Innovation club Meet at the Rashtrapati Bhawan. Students won the Mind-rover all India competition for innovative idea organized by TATA Motors.

6 students of Ohio State University completed their national science Foundation project in the Mechanical engineering department of MNIT.

A short term training program for students was organized on Auto-Desk Fusion 360 and one student has been declared finalist and invited to Auto-Desk (USA).

In the various cultural events the diverse culture of India was beautifully mirrored on a smaller scale. The Creative arts Society (Music Wing) organized table workshop by the renowned Himanshu Mahant, music concert by santoor exponent - Abhay Rustum Sopori, Dhrupad concert by Prashant and Nishant Mullick.

Blitzschlag, the institute Tech-fest was organized with customary enthusiasm. Events covering the entire gamut from folk to classical, local to global were organized.

Celebration of Yoga Day, Sadbhavna Divas, Vigilance Week, Constitution Day

Yoga day was observed on June 21, 2015; yoga session with inspirational speech, panel discussions, photo and book exhibitions were organized.

Sadbhavna Divas was observed on August 20, 2015, the entire faculty, staff and students took the Sadbhavna Oath.

Debate, poster making, slogan writing competitions, panel discussion were organized as part of the Vigilance awareness week.

Swachh Bharat Abhiyan

In the true spirit of Swachh Bharat initiative started on October 2nd 2014, on the 145th birth anniversary of Mahatma Gandhi, a special drive for cleanliness and tree - plantation was taken up by the students and staff members of the institute on August 15, 2015.

Achievement in Sports

The institute athletes and sports persons won medals at various inter NIT meets, SPORTECH 15 at IIT

Delhi, in tennis table tennis, chess, body-building, power-lifting volleyball and other games.

The sports department organized the annual athletic meet, inter-branch tournaments in all games including Hong kong sixes. The department hosted intranet tournaments too.

Entrepreneur Development Cell (EDC)

Our EDC is working hard to motivate students and alumni to develop their own startup. The cell has organized awareness camps at MNIT as well as other engineering Institutes in Rajasthan to inspire budding Engineers. They are working in close association with organizations like FICCI, CII etc. for the purpose.

10.6 CO-NIT MEET

A 3 -day meet of the Directors, Dean Research, Dean Academic affairs and Dean Administration of about 21 NITs, members of the consortium of NITs was hosted by MNIT.

In parallel brainstorming sessions the participants discussed institutional governance, developing research, strategic plan for NIT system for nation building, best practices and the way forward for more relevant and more effective journey NITs of the 21st century. The members emphasized the need for courses on Intellectual Property rights, Environmental studies Company Law, and Humanities for a 360 degree outlook. Dr. D.P. Agarwal, former chairman of UPSC said that the organized sector accounted for only 20 percent of the jobs and thus it is the unorganized sector that requires to be upgraded to generate wealth for the country. It requires industry experience and self-study courses to be introduced. Incubation centre is expected give a thrust to it. It also requires greater autonomy to implement new radical reforms.

10.7 DIGNITARIES AT MNIT

Our students are fortunate to had the opportunity to interact with some of best possible brains of our time. These interactions inspired them to think big and do it even bigger. To name a few, this year, Prof. Mashelkar, Prof. M. M. Sharma, Dr. A. S. Kiran Kumar (Chairman ISRO), S.Y. Siddiqui (Chief Mentor at Maruti Suzuki India Ltd.), Mr. K. Ram Kumar (Executive Director, ICICI Bank), Sri Mulyani Indrawati (COO and Executive Director World Bank), visited MNIT and inspired our students.

10.8 ACHIEVEMENTS IN SPORTS

The students of MNIT performed excellently in 2015-16 in sports. The details are as follows:

1. All India Inter NIT Athletic & Gym Competition 2015-16, held at MNIT Jaipur: overall second position. (Coach Dr. Virender Singh).
2. Udhgosh-15 held at IIT Kanpur: satisfactory results.
3. BOSM -15 held at BITS Pilani: Won silver medal in badminton girls and two medals in Athletics.
4. All India Inter NIT Tournaments 2015-16, (Volleyball, Badminton and Tennis) held at NIT Surat. Satisfactory results.
5. All India Inter NIT Tournament 2015-16 (basketball and cricket) held at NIT Calicut: Satisfactory performance (Coach Dr. Virender Singh).

10.9 UNNAT BHARAT SCHEME AT MNIT JAIPUR

As per the vision of Prime Minister **Sh. Narendra Modi** and the initiatives of MHRD to develop 100 villages as pilot project under **Unnat Bharat Scheme**, MNIT Jaipur is given a mandate to develop 05



villages. As per the mandate, MNIT Jaipur has identified the **05 villages** as Gram**DabhKaNalla**, Gram**Jirrota**, Gram**Pahadiya**, Gram**Bhurthal** and Gram**Tamarya**, near by Jaipur within 24 kms area

- ∂ A preliminary survey of all the villages was done and based on the survey it is observed that all the villages has problems related to drinking water, drainage, streets and street light, shortage of toilets in houses, health and skill development etc.
- ∂ A dedicated team of faculty and students has worked with the villagers to prepare this DPR to decide the course of action to mitigate all these issues. A house hold survey along with geographic survey was done for the above purpose.

Work done till now by UBA team @ MNIT Jaipur

- ∂ One Computer Skill Development Programme is organized for the youths living in the villages adopted by MNIT under Unnat Bharat Abhiyan (UBA) for the upliftment of rural India. Total 20 participants participated in this program. The participants were taught about basic computer, basic Internet skills, MS- Word, MS-Excel, MS-Power point, Creating and operating email id, railway booking, online shopping, online bill payment, social networking, e- newspaper, online recharge, etc.
- ∂ Five groups comprising of eleven faculty members and students have been made to handle problems in following areas:
 - Education, Water, Energy, Environment, Employment, sanitation and rainwater harvesting.
- ∂ Execution and promotion of Education in the villages- One DST Rajasthan, R & D project has been approved Rs. 5.6 lacs for development of Learning Tools in Hindi for school education. Work is under progress.

The following work is under process in this scheme:

1. Increasing Employment Opportunities through Skills Development Courses and Vocational Trainings
2. Use of Renewable Energy for Development of Villages in Rajasthan
3. Rain Water Harvesting and Sanitation – Complete proposal has been prepared for one village.
4. REIL, Jaipur has been approached for electrification of primary school of one village.
5. Mahatma Gandhi Medical College Jaipur has been approached for conducting Medical Camps in above five villages.
6. Faculty members and students are developing tools for development of Rural development.

10.10 PLACEMENT AND TRAINING

The Placement Cell has been active in arranging training and placement for students. This year a total of 95 companies visited the Campus and selected 516 (432 B.Tech, 68 M.Tech. and 16 MBA) students. Highest and Average Packages offered by companies were Rs. 25.00 LPA to 4 students of Computer Science & Engineering including one Student was given Pre Placement Offers (PPOs), and the average package of placed students (B.Tech) was 5.77 LPA.

11. ANNEXURE

11.1 BOARD OF GOVERNORS

S. No.	Nomination under	Name and Designation of nominated persons	Serve as
1.	Section 11 Clause (a)	Prof. I.K. Bhat (Director, MNIT Jaipur). The Director as per the Clause 17 (15) of NIT Statutes discharged the function of the Chairperson.	Chairman
2.	(b)	Prof.I.K.Bhat, Director, MNIT, Jaipur	Ex-Officio Member
3.	(c)	The Joint Secretary (Technical Education) Govt. of India, MHRD, Dept. of Higher Education Shastri Bhawan New Delhi	Member
4.	(c)	The Financial Advisor Government of India, MHRD, Dept of Higher Education, New Delhi	Member
5.	(d)	Prof. Ravi Juniwal, Apex Institute of Management, Jaipur	Member
6.	(d)	Member to be nominated by State Govt.	Member
7.	(e)	Member to be nominated by NIT Council.	Member
8.	(e)	Member to be nominated by NIT Council.	Member
9.	(f)	Prof. Ashok Sharma, Met. & Mat Engg. Dept., MNIT, Jaipur	Member
10.	(f)	Dr. Awdhesh Bhardwaj, Mechanical Engg. Dept., MNIT, Jaipur	Member
11.	Section 18 Clause (2)	Prof. M.K. Shrimali, Registrar, MNIT, Jaipur	Secretary

**11.2 FINANCE, BUILDING & WORKS AND OTHER COMMITTEES****Finance Committee**

S. No.	Name and Designation of nominated persons	Serve as
1	Prof. I.K. Bhat (Director, MNIT Jaipur). The Director as per the Clause 17 (15) of NIT Statutes discharged the function of the Chairperson.	Chairman
2	Prof.I.K.Bhat, Director, MNIT, Jaipur	Ex-Officio Member
3	The Joint Secretary (Technical Education) Govt. of India, MHRD, Dept. of Higher Education Shastri Bhawan New Delhi	Member
4	Two persons nominated by the Board amongst the members	Member
5	Registrar, MNIT, Jaipur.	Ex-officio Member Secretary

Building & Works Committee

S. No.	Name and Designation of nominated persons	Serve as
1	Prof. I.K. Bhat, Chairman, BWC MNIT Jaipur, JLN Marg,, Jaipur – 302017	Director, Ex-Officio Chairman
2	Sh. Sanjeev K. Sharma, Director (NITs), Department of Higher Education Ministry of Human Resource Development Government of India Shastri Bhawan, New Delhi – 110 001	Nominee, MHRD
3	Sh. Manish Jindal, Registrar, PEC University of Technology, Sector – 12, Chandigarh – 160012	Nominee, BOG
4	Shri Krishna Maheswari, Superintending Engineer (Civil, Planning) CPWD Circle, Sector-10, Vidhyadhar Nagar, Jaipur	Expert from Civil
5	Sh. Arjun Singh, Managing Director, JVVNL Jaipur	Expert from Electrical
6	Prof. Rohit Goyal, Dean (P&D), MNIT Jaipur, JLN Marg, Jaipur – 302017	Dean, P&D
7	Prof. M.K. Shrimali, Registrar MNIT Jaipur, JLN Marg, Jaipur – 302017	Member Secretary

THE SENATE

S. No.	Name	Designation and Address
1.	Prof. I. K. Bhat	Director & Chairman Senate, MNIT Jaipur
2.	Prof. A. K. Khare	Ex-Pro Vice Chancellor, UP Technical University, Lucknow
3.	Dr. S. Rangnekar	MANIT Bhopal, Bhopal
4.	Prof. Ashok Bapna	Flat No. 502, Golden Sobhagya, B-81, Rajendra Marg, Bapu Nagar, Jaipur-302015
5.	Prof. Ravindra Nagar	Dean, Academic & Professor, Civil Engg Dept., MNIT Jaipur
6.	Prof. Rohit Goyal	Dean, (P&D) and Professor, Civil Engg. Dept, MNIT Jaipur
7.	Prof. Manoj Fozdar	Dean, Faculty Welfare & Professor Electrical Engg. Dept., MNIT Jaipur
8.	Prof. Dilip Sharma	Dean, Students Welfare & Alumni Affairs and Professor Mechanical Engg. Dept., MNIT Jaipur
9.	Prof. Awadhesh Bhardwaj	Dean, Research & Consultancy and Professor, Mechanical Engg. Dept., MNIT Jaipur
10.	Prof. Jyotirmay Mathur	Dean, International Affairs & Professor, Mechanical Engg. Dept., MNIT Jaipur
11.	Prof. M. K. Shrimali	Head, National Centre for Disaster Mitigation and Management and Professor, Civil Engg. Dept., MNIT Jaipur
12.	Er. Ram Niwas Sharma	Head, Architecture & Planning Dept. MNIT Jaipur
13.	Dr. Sanjay Mathur	Head, Centre for Energy & Environment, MNIT Jaipur
14.	Dr. Suja George	Head, Chemical Engg. Dept MNIT Jaipur
15.	Dr. Jyoti Joshi	Head, Chemistry Dept. MNIT Jaipur
16.	Prof. Gunwant Sharma	Head & Professor, Civil Engg. Dept, MNIT Jaipur
17.	Prof. M. C. Govil	Head & Professor, Computer Science & Engg. Dept. MNIT Jaipur
18.	Dr. Vikas Gupta	Head, Electrical Engg. Dept., MNIT Jaipur
19.	Prof. K. K. Sharma	Head & Professor, Electronics & Comm. Engg. Dept., MNIT Jaipur
20.	Dr. V. S. Shekhawat	Head, Humanities Dept, MNIT, Jaipur
21.	Dr. M. L. Mittal	Head, Management Studies, MNIT Jaipur
22.	Dr. Vatsala Mathur	Head, Dept of Mathematics, MNIT Jaipur
23.	Prof. G. S. Dangayach	Head & Professor, Dept of Mechanical Engg. Dept., MNIT Jaipur
24.	Prof. Upender Pandel	Head & Professor, Metallurgical & Materials Engg. Dept, MNIT Jaipur



25.	Prof. Suman Kumar Sharma	Head & Professor, Physics Dept, MNIT Jaipur
26.	Dr. Kanupriya Sachdev	Head, MRC, MNIT Jaipur
27.	Prof. R. A. Gupta	Professor, Electrical Engg. Dept MNIT Jaipur
28.	Prof. R. C. Gupta	Professor, Civil Engg. Dept., MNIT Jaipur
29.	Prof. Rajeev Shringi	Professor, Architecture & Planning Dept MNIT Jaipur
30.	Prof. Alok Ranjan	Professor, Architecture & Planning Dept, MNIT Jaipur
31.	Prof. Rakesh Jain	Professor, Mechanical Engg. Dept MNIT Jaipur
32.	Prof. Sudhir Kumar	Professor, Civil Engg. Dept, MNIT Jaipur
33.	Prof. K. D. Gupta	Professor, Chemistry Dept, MNIT Jaipur
34.	Prof. Vineet Sahula	Professor, Electronics & Comm. Engg. Dept., MNIT Jaipur
35.	Prof. M. S. Gaur	Professor, Computer Science & Engg. Dept, MNIT Jaipur
36.	Prof. Ashok Sharma	Professor, Metallurgical & Materials Engg. Dept, MNIT Jaipur
37.	Prof. Gopal Agarwal	Professor, Mechanical Engg. Dept, MNIT Jaipur
38.	Prof. S. L. Soni	Registrar & Professor, Mechanical Engg. Dept, MNIT Jaipur
39.	Prof. A. P. S. Rathore	Professor, Mechanical Engg. Dept MNIT Jaipur
40.	Prof. P. R. Soni	Professor, Metallurgical & Materials Engg. Dept, MNIT Jaipur
41.	Prof. A. K. Bhargava	Professor, Metallurgical & Materials Engg. Dept MNIT Jaipur
42.	Prof. A. B. Gupta	Professor, Civil Engg. Dept., MNIT Jaipur
43.	Prof. Y. P. Mathur	Professor, Civil Engg. Dept., MNIT Jaipur
44.	Prof. B. L. Swami	Professor, Civil Engg. Dept, MNIT Jaipur
45.	Prof. A. K. Vyas	Professor, Civil Engg. Dept, MNIT Jaipur
46.	Prof. Alok Gupta	Professor, Chemical Engg. Dept MNIT Jaipur
47.	Prof. S. P. Chaurasia	Professor, Chemical Engg. Dept MNIT Jaipur
48.	Prof. K. R. Niazi	Professor, Electrical Engg. Dept, MNIT Jaipur
49.	Prof. K. C. Jain	Professor, Mathematics Dept, MNIT Jaipur
50.	Prof. Rashmi Jain	Professor, Mathematics Dept, MNIT Jaipur
51.	Prof. R. P. Yadav	Professor, Electronics & Comm. Engg. Dept., MNIT Jaipur
52.	Prof. D. Boolchandani	Professor, Electronics & Comm. Engg. Dept., MNIT Jaipur
53.	Prof. M. K. Banerjee	Steel Chair Professor, Metallurgical & Materials Engg., MNIT Jaipur
54.	Prof. V. Sinha	Professor, Electronics & Comm. Engg. Dept., MNIT Jaipur
55.	Prof. Tusha Kanti Datta	Professor-Adjunct, National Centre for Disaster Mitigation and Mgt., MNIT Jaipur
56.	Prof. Sampad Kumar Biswas	Professor-Visiting, Metallurgical & Materials Engg., MNIT Jaipur



57.	Dr. Lava Bhargava	Associate Dean (PG) & Associate Professor, ECE Dept., MNIT Jaipur
58.	Dr. Kailash Singh	Associate Dean (UG) & Associate Professor, Chemical Engg. Dept., MNIT Jaipur
59.	Ms. Priyanka Sharma (2012UMT1092)	Student Nominee (Metallurgical & Materials Engg. Dept.)
60.	Ms. Tanu Pittie (2014PCS5111)	Student Nominee (Civil Engg. Dept.)

11.3 RESEARCH PROJECTS AND CONSULTATION JOBS

1. SUMMARY OF MAJOR SPONSORED RESEARCH SCHEMES & CONSULTANCY PROJECTS

DEPARTMENT OF ARCHITECTURE & PLANNING

New Research Projects (Started in the Year 2015-16):

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Type of funding agency (R&D/ academic/ Industry/PSU/ Govt./Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Vernacular Practices as a basis for formulation of building regulations for different climatic zones of Rajasthan	Dr. Ashwani Kumar & Dr. Satish Pipralia	DST Rajasthan	R&D	6.51	Ongoing



CENTRE FOR ENERGY & ENVIRONMENT

Continuing Sponsored Research Projects (Started earlier than 1st April 2015):

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Type of funding agency (R&D/ academic/ Industry/PSU/ Govt./Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	US-India Joint centre for building and development (CBERD) under the umbrella of US-INDIA partnership to advance clean energy (PACE)	Prof. Jyotirmay Mathur	US-DOE and Indian Ministry of science and technology with matching industrial funding	Govt.	593 lacs	Ongoing
2.	Setting of energy resource centre by RRECL	Prof. Jyotirmay Mathur	RRECL	Govt.	20 lacs	Ongoing

New Research Projects (Started in the Year 2015-16):

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Type of funding agency (R&D/ academic/ Industry/ PSU/Govt./ Specify if any other)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Biomass to Biogas	Dr Vivekanand	Department of Biotechnology, GoI	Govt.	88.00	Ongoing

Continuing Consultancy Projects started and completed in the year 2015-16):

S. No.	Name of the Project	Team Members	Client	Type of funding agency (R&D/ academic/ Industry/PSU/Govt./Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Vetting of the Feasibility report for MSW management project for Jaipur Municipal Corporation	Dr Vivekanand Prof Jyotirmay Mathur Dr Sanjay Mathur	Jaipur Nagar Nigam	Govt.	1.5	Completed



New Consultancy Projects (Started in the year 2015-16)

S. No.	Name of the Project	Team Members	Client	Type of funding agency (R&D/ academic/ Industry/PSU/G ovt./Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	ECBC Code compliance & beyond a pilot study	Prof. Jyotirmay Mathur	Battele Memorial Institute PNNL USA	Battele Memorial Institute PNNL USA	3.35	Ongoing
2	Development of 3 rd party system in ECBC implementation process	Prof. Jyotirmay Mathur	Battele Memorial Institute PNNL USA	Battele Memorial Institute PNNL USA	2.22	ongoing

DEPARTMENT OF CIVIL ENGINEERING

Continuing Sponsored Research Projects (Started earlier than 1st April 2015):

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Type of funding agency (R&D/ academic/ Industry/PSU/Govt./ Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1	Assessment of possibilities of recovery and reuse of wastewater in handmade paper industry in Sanganer	A. B. Gupta; Dr Kailash Singh; Saakshi	DST, (2011)	GOI	35.98 lacs	Work under progress
2	Treatment of textile wastewater using sand as a low cost adsorbent	Dr Urmila Brighu, A.B. Gupta,	RPCB(2014)	GOR	24.34 lacs	Work under progress
3	Defluoridation of Drinking water using Combination of Magnesium and Calcium amended activated alumina	Suja George, A.B. Gupta	DST, Rajasthan India (2013)	GOR	11.524	Work under progress



4	Sustainability Evaluation of Urban Environment Quality and Development of upcoming Megacities of India	PI: Dr. Ankita Pran Dadhich Mentor: Prof. Rohit Goyal	Department of Science & Technology	Govt.	23.93	Ongoing
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New Research Projects (Started in the Year 2015-16):

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Type of funding agency (R&D/ academic/ Industry/PSU/ Govt./Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Utilization of Marble Slurry powder for Production of Hydroxyapatite (HAP) suitable for defluoridation of drinking water	Suja George, Virendra Saharan, A.B. Gupta	RPCB(2015)	Rajasthan Government	42.976	ongoing
2	IWRM Plan for KBNIR in Rajasthan	PI: Prof. Rohit Goyal, Members: Prof. A.B. Gupta, Dr. Sandeep Srivastava	CH2M Hill (India) Pvt. Ltd, Noida	Industry	7.50	Ongoing
3	Recruitment examination (Confidential)	PI: Prof. Rohit Goyal, Members: Prof. I.K. Bhat, Prof. Awadhesh Bhardwaj	PWD, Daman	Govt.	21.0	Completed

Continuing Consultancy Projects started and completed in the year 2015-16):

Information may please be collected from Dean (R & C)

S. No.	Name of the Project	Team Members	Client	Type of funding agency (R&D/ academic/ Industry/PSU/Govt./Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Consultancy for testing and verification of the work related with area development of SAIL Warehouse Kota executed by CPWD under Ajmer Kendriya Mandal.	Dr. S. K. Tiwari Dr. Gunwant Sharma Dr. Pawan Kalla	Ajmer Kendriya Mandal CPWD Ajmer	Govt.	6.15 lacs	Completed
2	Consultancy report regarding classification of strata(earth work) as Soil, Ordinary Rock and Hard Rock at Karauli project under package KRL/WW/05	Dr. S. K. Tiwari Dr. Y. P. Mathur Dr. Rajib Sarkar	Rajasthan Urban Infrastructure Development Project, DSC-I, JAIPUR	Govt.	6.74 lacs	Completed
3	Consultancy for soil testing (Geotechnical Investigation) at Sanchore for construction of RWR	Dr. S. K. Tiwari Dr. Gunwant Sharma Dr. Rajib Sarkar	SPML Infra Limited	Industry	2.29 lacs	Completed



Projects completed during the year 2015-16

Information may please be collected from Dean (R & C)

S. No.	Name of the Project	Team Members	Client	Type of funding agency (R&D/ academic/ Industry/PSU/Govt./Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Development of a Solar Energy based Membrane Distillation System for rural drinking Water applications in Rajasthan	A.B. Gupta, Dr S. P. Chaurasia, Sushant Upadhyaya, G. D. Agarwal	CCDU, GOR (2012)	GOR	10.5 lacs	completed
2.	Membrane Integrated Modified Nalgonda Defluoridation Technique for drinking Water	Madhu Agrawal, Suja George, A.B. Gupta, Dr S. P. Chaurasia	CCDU, GOR (2012)	GOR	15.9 lacs	completed

DEPARTMENT OF CHEMICAL ENGINEERING

Continuing Sponsored Research Projects (Started earlier than 1st April 2015):

S. No.	Name of the Project	Principal Investigator / Coordinator	Sponsoring Agency	Type of funding agency (R&D/ academic/ Industry/ PSU/Govt./ Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Hydrodynamic cavitation as an intensifying tool for the treatment of crude oil and waste water.	Dr. Virendra Kumar Saharan	DST	Government	35.00	Ongoing since 15 th January 2014
2	Defluoridation of Drinking water using Combination of Magnesium and Calcium amended activated alumina	Dr. Suja George Dr. Urmila Brighu Prof. A.B. Gupta	DST, Rajasthan India	Government	11.524	Ongoing since March 2013.
3	Experimental and modeling studies for process parameter optimization of nutrient mist reactor for sustained production of hairy roots	Dr. Manish Vashishtha	DST, Rajasthan India	Government	9.62	Ongoing Since 2014



New Research Projects (Started in the Year 2015-16):

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Type of funding agency (R&D/ academic/ Industry/PSU/ Govt./Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Green Process: Development of Green Catalyst for the Synthesis of Glycerol Carbonate from Waste Glycerol	Dr. Subbaramaiah V.	DST, New Delhi.	Early Carrier Research Award (2016-2019)	15.00	Since 2016
2	Utilization of Marble Slurry powder for production of Hydroxyapatite suitable for defluoridation of drinking water.	Dr. Suja George (PI) and Dr. Virendra Kumar Saharan (Co-PI) Prof. A.B. Gupta (Co-PI)	Rajasthan State pollution Control Board,	Government	43.0	Since 2016
3	Manufacture of Bricks and Paver Blocks by using Plastic material along with waste marble material and additives	Dr. Sushant Upadhyaya (PI) Dr. K. Singh (Co-PI) Prof. A. B. Gupta (Co-PI) Dr. Sandeep Chaudhary (Co-PI) Dr. M.L. Meena (Co-PI)	Kolor Kraft, Rajasthan, India	Industry	16.74	Since Dec., 2015



Projects completed during the year 2015-16

S. No.	Name of the Project	Team Members	Client	Type of funding agency (R&D/ academic/ Industry/PSU/Govt./Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Membrane Integrated Modified Nalgonda Defluoridation Technique for Drinking Water	Dr. Madhu Agarwal, Prof. A.B. Gupta, Prof. S.P. Chaurasia Dr. Suja George	CCDU, WSSO Rajasthan	Government	15.90	Completed in March 2016
2	Development of a Solar Energy Based Membrane Distillation System for Rural Drinking Water Applications in Rajasthan	Prof. S.P. Chaurasia Prof. A.B. Gupta, Dr. Sushant Upadhyaya Dr. G. D. Agarwal	CCDU Rajasthan	Government	10.00	Completed on 15 March 2016

DEPARTMENT OF CHEMISTRY

Continuing Sponsored Research Projects (Started earlier than 1st April 2015):

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Type of funding agency (R&D/ academic/ Industry/PSU/ Govt. / Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	New Perspectives to Advance Green Medicinal Chemistry	Dr. Raj Kumar Joshi, MNIT Jaipur Dr. Gregory Smith, University of Cape Town, South Africa	DST, New Delhi	Indo-South African Joint research Project	34	Ongoing



2	Strategically development of Metasilylene complexes: Potential catalyst for unique organic transformation reactions and silylene transfer reaction.	Dr. Raj Kumar Joshi, MNIT Jaipur	CSIR New Delhi	Govt.	25	Ongoing
3.	Exploring non-opioid analgesics from bench-side to bed-side: An efficient, cost-effective, asymmetric synthesis and SAR study of new non-opioid anti-pain lead compound, Conolidine.	Dr. Sandeep Chaudhary	DST-SERB Start-up Research Grant (Young Scientist)	Government	25 lakhs	Ongoing
4.	Strategic Investigation of Organo-catalyzed direct arylation of arenes and hetero-arenes via sp^2 C-H bond activation: Application to an efficient synthesis of bioactive heterocycles.	Dr. Sandeep Chaudhary	CSIR	Government	25 lakhs	Ongoing
5.	Exploring nitrogen-based heterocycles from bench-side to bed-side: Synthesis, chemistry, stereo-chemical assignment, structure-activity relationship studies and biological evaluation.	Dr. Sandeep Chaudhary & Prof. Irina V. Mashevskaya	DST-RFBR Indo-Russian Joint Research Project	Government	26.236 lakhs	Ongoing
6.	Chemo- and regio-selective transition metal-catalyzed asymmetric hydroarylation of methylenecyclobutanes and methylenecyclopentanes	Dr. Sandeep Chaudhary	Institute Seed Grant	Government	16 lakhs	Ongoing
7.	High-performance hyper-branched nitrogen/phosphorous doped photo-luminescent carbon quantum dots for imaging and sensing applications	Dr. Sumit Kumar Sonkar	DST	Government	47.22 Lacs	Ongoing



New Research Projects (Started in the Year 2015-16):

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Type of funding agency (R&D/ academic/ Industry/PSU/ Govt./Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Design and Study of Potential Metallocarborene Catalysts for General and Selective Organic Reactions	Dr. Raj Kumar Joshi, MNIT Jaipur, Prof. Igor Timofeevich Chizhevsky, INOES, Moscow, Russia	DST -RFBR	Indo-Russian Joint research project, Govt. funded	18.5	Ongoing
2.	Exploring Antimalarial Peroxides from Bench-side to Bed-side: Synthesis, Chemistry, Antimalarial Assessment and SAR studies of Novel functionalized 1, 2, 4-Trioxanes and 1, 2, 4, 5-Tetraoxanes against Multi-drug Resistant Malaria.	Dr. Sandeep Chaudhary & Dr. Jernej Iskra	DST-ARRS Indo-Slovenian Joint Research Project (2015-2018)	Govt.	14.5 lakhs	Ongoing
3	Designing and Systematic Study of New Two Dimensional MXenes for Electrochemical Energy Storage Applications	Dr. Sumanta Kumar Meher	DST-SERB	Govt.	24.22	Ongoing

Projects completed during the year 2015-16

S. No.	Name of the Project	Team Members	Client	Type of funding agency (R&D/ academic/ Industry/PSU/Govt./Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1	Synthesis of metal carbonyl based organometallic clusters (specially Fe containing) and their catalytic applications in organic chemistry	Dr. Raj Kumar Joshi, MNIT Jaipur	SERB/DST, New Delhi	Govt.	16.8	Completed

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Continuing Sponsored Research Projects (Started earlier than 1st April 2015):

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Type of funding agency (R&D/ academic/ Industry/PSU/Govt./Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Security Analysis Framework for Android Applications	Prof. M S Gaur Dr. Vijay Laxmi	Deity	Govt.	55.5	Ongoing
2.	Information Security Education Awareness – Phase II Resource Center	Prof. M S Gaur Dr. Vijay Laxmi	Deity	Govt.	185	Ongoing
3.	Investigating the Source of the Spoofed Emails	Dr. Pili Emmanuel Shubhakar	UCOST	State Government DST	1.48	Completed
4.	Urdu Corpus Development and Handwritten Text Recognition	Dr. Neeta Nain	DST Govt. of Rajasthan	Govt	8.25	ongoing
5.	Path and Spectrum Aware Routing protocol for multi-channel and multi radio CRWMN	Mr. Ramesh Babu B	DST, India	R&D	61	Ongoing

New Research Projects (Started in the Year 2015-16):

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Type of funding agency (R&D/ academic/ Industry/PSU/ Govt./Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Indo French Project “Reflection Aware ICC Analysis Framework for Android Apps”	Dr. Vijay Laxmi	CEFIPRA	R &D International	32.24	Ongoing
2.	Design and Implementation of the Learning Activities in Hindi for School Education for Rural Development (SERD	Dr. Namita Mittal	DST Rajasthan	R & D	5.6	Ongoing



Projects completed during the year 2015-16

S. No.	Name of the Project	Team Members	Client	Type of funding agency (R&D/ academic/ Industry/PSU/Govt./ Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	HiPER NIRGAM (UKIERI-Phase II)	Prof. MS Gaur, Dr. Vijay Laxmi and Prof. Mark Zwolinski, University of Southampton (UK)	UKIERI	Academic	30 lacs	Completed
2.	On-Chip Network Simulation Platform for Reliable, Accurate and Fast System Co-Design of Embedded and Multi-Core Systems	Prof. MS Gaur, Dr. Vijay Laxmi	DST	Central Government	28 lacs	Completed
3.	Countermeasures for Protocol Compliant Attacks in Mobile Adhoc Networks	Dr. Vijay Laxmi, Prof. MS Gaur,	DST	Central Government	17 lacs	Completed

DEPARTMENT OF ELECTRICAL ENGINEERING

New Research Projects (Started in the Year 2015-16):

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Type of funding agency (R&D/ academic/ Industry/PSU/Govt./ Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Performance Enhancement and Reliable Operation of Wind-PV Distribution System Supplying AC/DC Loads with Remote Condition Monitoring	Dr. Vijayakumar K	SERB -DST	Govt. of India	19.89	Ongoing



2.	Design and Development of Power Electronic Converter Controllers for Renewable Powered Telecommunication System	Dr. Vijayakumar K	Ministry of Communications & Information Technology	Govt. of India	37.00	Ongoing
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New Consultancy Projects (Started in the year 2015-16)

S. No.	Name of the Project	Team Members	Client	Type of funding agency (R&D/ academic/ Industry/PSU/Govt./Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Testing of Cable	Dr. H.P. Tiwari, Dr. Vikas Gupta, Dr. Rohit Bhakar	PHED Government of Rajasthan	PHED, Government (Quality Control)	0.92 Lacs	Completed



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Continuing Sponsored Research Projects (Started earlier than 1st April 2015):

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Type of funding agency (R&D/ academic/ Industry/PSU/Govt./Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Design and Development of Micro-structured Optical Components for Photonic Integrated Circuit (PICs) applications	Dr. Ghanshyam Singh	INDIA-JAPAN COOPERATIVE SCIENCE PROGRAMME (DST-JSPS JOINT RESEARCH PROJECT	Govt. of India and Japan	Rs. 4.56 (Indian component)	Completed (March 2016)
2.	New Architectures of elliptical air hole PCF for ultra low Dispersion	Dr. Ritu Sharma	DST Rajasthan	R &D	1.60	Ongoing
3.	Special Manpower Development Programme for Chips to System Design	Prof. D. Boolchandani Co Investigator; Dr. Lava Bhargava	Ministry of Communications & IT	Government	100	Ongoing

New Research Projects (Started in the Year 2015-16):

S. No.	Name of the project	Principal Investigator/ Coordinator	Sponsoring Agency	Type of funding agency (R&D/ academic/ Industry/PSU/ Govt./Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Integrated Optic Devices for Visible Light Communication	Dr. Ravi Kumar Medilla	DEITY	Govt.	37	Ongoing



2.	Design and Development of Nanostructured ZnO Film Based Piezoelectric Devices for Energy Harvesting Applications (2015-2017)	Dr. C. Periasamy (PI) Dr. Ghanshyam Singh (Co-PI)	India(DST) And Austria (BMWF) Scientific-Technological Co-Operation Programme	R&D /Govt.	10	Ongoing
3.	Design and Development of AlGaN/GaN High Electron Mobility Transistors (HEMTs) for Biosensing Applications (2015-2019)	Dr. C. Periasamy (PI)	Science & Engg. Research Board (SERB)	R&D /Govt.	20.96	Ongoing
4.	Research grant (2016-2020)	Dr. C. Periasamy (PI)	DeitY Ministry of Comm. & IT, Govt. of India	R&D /Govt.	37	Ongoing
5.	Development of Piezoelectric Nanogenerator for Energy Harvesting Applications (2015-2017)	Dr. C. Periasamy (PI)	DST	R&D /Govt.	11	Ongoing
6.	Modeling and characterization of Lithium Niobate (LiNbO ₃) based optical devices using surface geometric techniques for their applications in Integrated Optical Circuits (IOCs)	Dr. Ghanshyam Singh	INDIA-UKRAINE INTER-GOVERNMENTAL SCIENCE & TECHNOLOGY COOPERATION PROGRAMME	Govt. of India and Ukraine	10.78440 (Indian component)	ongoing



7.	Efficiency Enhancement in thin film GaAs solar cells using Photonic Crystal as a back reflector	Vijay Janyani	DST-SERI	Govt.	39.63 1	Ongoing
8.	Design and Simulation of cantilever type MEMS based energy harvester	Dr. Ritu Sharma	IITM Kanpur	Academic	2	Ongoing
9.	Nodal Officer, Visvesvaraya PhD Scheme of DeitY,	Prof. V. Sahula				Ongoing
10.	Chief Investigator, Electronics & ICT Academy	Prof. V. Sahula				Ongoing
11.	SMDP VLSI	Co-Coordinator	Ministry of comm. & IT	DEITY		Ongoing
12.	E & ICT Academy	Co-Coordinator	Govt.	DEITY	1000	Ongoing

Continuing Consultancy Projects started and completed in the year 2015-16):

S. No.	Name of the project	Team Members	Client	Type of funding agency (R&D/ academic / Industry/ PSU/ Govt. / Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Training/ conducting one week special course for Railway supervisors 1000110664	Prof. K.K. Sharma Co-Coordinator Dr. Ghanshyam Singh	Indian Railways	Central Govt.	1.51	Completed
2.	Synthesis of isoporous CNTS for water/solar applications	Dr. Ritu Sharma, Dr. Neeta Nain, Dr. Santosh Chaudhary	Aquafil Polymers Pvt. Ltd. Ahmadabad	Industry	1	ongoing

DEPARTMENT OF HUMANITIES & SOCIAL STUDIES

Continuing Sponsored Research Projects (Started earlier than 1st April 2015):

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Type of funding agency (R&D/ academic/ Industry/PSU/Govt./Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Politics of Alienation and Secessionism in North-Eastern India	Dr. Vibhuti Singh Shekhawat (Principal Investigator)	ICSSR, New Delhi	Under HRD Ministry	4 Lac	Completed in 2016

DEPARTMENT OF MECHANICAL ENGINEERING

Continuing Sponsored Research Projects (Started earlier than 1st April 2015):

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Type of funding agency (R&D/ academic/ Industry/PSU/Govt./ Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Experimental Study of Flat Plate Solar Collector (Direct absorption type) Using Nano-Fluids	Dr G D Agrawal	DST	R & D	11.95 Lacs	Completed
2.	Studies of Thumba (Citrullus Colocynthis) Seed Oil on Engine Performance, Combustion and Exhaust Emission Characteristics	P.I.- Prof. S.L. Soni Co-P.I- Prof. Dilip Sharma	Department of Science and Technology Delhi		34.7 Lac	Completed
3.	Design & Development of low cost one way Abrasive Flow Machine (AFM) utilizing pulp & fullers earth based media	Dr. Harlal Singh Mali	DST		12.49	On Going
4.	Gainful utilization of stone waste in the state of Rajasthan- CDOS-Stone Chair	Coordinator- Prof. R. Nagar, Co- Coordinators - Dr. Amar Patnaik Dr. Harlal Singh Mali	Centre for Development of Stones, Jaipur	Govt.	100	Ongoing



New Research Projects (Started in the Year 2015-16):

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Type of funding agency (R&D/ academic/ Industry/PSU/ Govt./Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Design and Development of Solar Assisted Rapid Milk Cooler	P.I- Prof. Dilip Sharma Co-P.I- Prof. S.L. Soni	Department of Science and Technology Delhi	Technology System Development (TSD) Programme	37.8 Lac	Started
2.	Development of Marble dust Filled Fibre Reinforced Polymer Composite for Wind Turbine Blade	Principal Investigator	State S&T Councils, Department of Science and Technology, New Delhi	R&D	58Lacs	Ongoing
3.	Development of Ti-Al-N based coating on Al-alloy for application in hydroturbine blades	Principal Investigator	Council of Scientific and Industrial Research (CSIR)	R&D	19Lacs	Ongoing
4.	RES:US-India Collaborative Research in Mechanical, Biomedical, and Materials Science Engineering for Undergraduates	PI: Dr. Lisa Abrams, OSU, Columbus Co-PI: Dr. Harlal Singh Mali, MNIT Jaipur. Dr. Sheryl Sorby, OSU, USA. Dr. Tammy L. Haut, CSU, USA. Dr. Anil Jain, SDMH Jaipur	NSF, USA	R&D	90	Ongoing



Continuing Consultancy Projects (Started in the year 2015-16):

S. No.	Name of the Project	Team Members	Client	Type of funding agency (R&D/ academic/ Industry/PSU/Govt./Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Summer internship program on "Advances in Industrial Research Applications in Mechanical Engineering	Amar Patnaik (PI) Prof. I. K. Bhat (Co-PI) Prof. Rakesh Jain (Co-PI) Dr. Harlal S. Mali (Co-PI) Dr. Amit Singh (Co-PI) Dr. Dinesh Kumar (Co-PI) Dr. Gunjan Soni (Co-PI)	Students	academic	0.75Lacs	Completed

New Consultancy Projects (Started in the year 2015-16)

S. No.	Name of the Project	Team Members	Client	Type of funding agency (R&D/ academic/ Industry/PSU/Govt./Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Vetting of design and drawings extension of vertical gates	Dr. Himanshu Chaudhary (PI), Dr. Sandeep Chaudhary, Dr. Rajesh Gupta	M/s Pink Engineering Corporation, Udaipur	Industry	0.97	Completed Jun 2016

Testing (Carried out in the Year 2014-15)

S. No.	Name of the Lab	Total Amount (in Lacs of Rs.)	Type of funding agency (R&D/ academic/ Industry/ PSU/Govt./Specify if any other.)
1.	Advanced Research Centre for Tribology	0.75 Lacs	



DEPARTMENT OF MANAGEMENT STUDIES

New Research Projects (Started in the Year 2015-16):

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Type of funding agency (R&D/ academic/ Industry/PSU/ Govt./ Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Rural Women Empowerment and Sustainable Growth	Dr. Monica Sharma	DST, GOI	Govt.	27.40	Ongoing
3.	An Empirical Investigation of Ergonomic Interventions in Handicraft industry in Rajasthan with a special reference to Gems and Jewellery industry	Dr. Monica Sharma Co-PI/ PT Prof. Awadhesh Bhardwaj	DST, GOI	Govt.	18.5	Ongoing

Continuing Consultancy Projects started and completed in the year 2015-16):

S. No.	Name of the Project	Team Members	Client	Type of funding agency (R&D/ academic/ Industry/PSU/Govt./Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Performance Enhancement Of Large Scale Social Welfare Schemes using Work Study and Ergonomics	Dr. Monika Sharma Prof. Awadhesh Bhardwaj	NITTTR	Govt	1.7	Completed

Projects completed during the year 2015-16

S. No.	Name of the Project	Team Members	Client	Type of funding agency (R&D/ academic/ Industry/PSU/Govt./Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	"Determinants of Working Capital Management Practices after Global Financial Crisis in Indian Companies: Behavioral Finance Approach"	Dr. Satish Kumar	NA	ICSSR New Delhi	07 lakhs	Completed on Jan 31, 2016

DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING

Continuing Sponsored Research Projects (Started earlier than 1st April 2015):

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Type of funding agency (R&D/ academic/ Industry/PSU/Govt./ Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Investigation of heat-transfer characteristic on nano-fluid in sub-cooled flow boiling	Dr. R. K. Duchaniya	BRNS, BARC	Academic	17 Lakhs	Ongoing
2.	Synthesis and Characterization of High Entropy Mg _x -Al-Fe-Cu-Cr Alloys	Dr. Vinod Kumar	DST	Govt. of India; New Delhi	17.86 Lakhs	Ongoing
3.	Synthesis and environmental degradation study of multicomponent alloy for high temperature application	Dr. Vinod Kumar	BRNS	Dept. of Atomic Energy, Govt. of India; Mumbai	17.65 Lakh	Ongoing

Continuing Consultancy Projects started and completed in the year 2015-16):

S. No.	Name of the Project	Team Members	Client	Type of funding agency (R&D/ academic/ Industry/PSU/Govt./ Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Testing of Gal- Volume Sheet	Dr. R. K. Duchaniya	Dhanshree Construction DRM (Works), NWR, Jaipur	Industry	0.17	Completed
2	Mixing Of Silver With Iron	Dr. R. K. Duchaniya	SHREE KAUSHALYAS GEMS	Industry	2.00	Completed

New Consultancy Projects (Started in the year 2015-16)

S. No.	Name of the Project	Members	Client	Type of funding agency (R&D/ academic/ Industry/PSU/Govt./ Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Characterization Of precious metal	Dr. M. K. Bannerjee Dr. Upendra Pandel Dr. R. K. Duchaniya	Industry	Industry	1	completed



New Research Projects (Started in the Year 2015-16):

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Type of funding agency (R&D/ academic/ Industry/PSU/Govt./Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Development Of Ceramic Armour Panels to STANAG 4569 Level-4 for Futuristic Infantry Combat Vehicle (FICV)	Prof. S. K. Biswas	ODC Min. Of Defense Govt. Of India	Govt. Of India	Rs. 19 Lakhs	On-going
2	Direct reduction of mill scale	Dr. M. K. Bannerjee	Ministry of Steel, GoI	R&D	166	Ongoing

Projects completed during the year 2015-16

S. No.	Name of the Project	Team Members	Client	Type of funding agency (R&D/ academic/ Industry/PSU/Govt./ Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Mixing of Silver With Iron	Dr. R. K. Duchaniya	SHREE KAUSHALYAS GEMS	Industry	2.00	Completed

DEPARTMENT OF PHYSICS

Continuing Sponsored Research Projects (Started earlier than 1st April 2015):

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Type of funding agency (R&D/academic/ Industry/PSU/Govt./ Specify if any other.)	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Tuning the structural, optical and electrical properties of Au nanocrystals embedded in dielectric oxide layers for nonvolatile memory applications	Dr. Srinivasa Rao Nelamarri	SERB, New Delhi	R&D/ Govt	23.20	Ongoing
2.	Development of efficient polymer fullerene bulk heterojunction organic solar cell using noble metal nanoparticles	Dr. Rahul Singhal	DST New Delhi	Govt. of India	Rs.80.00 Lakhs	Ongoing



3.	Tailoring the structural, electrical and mechanical properties of NiTi shape memory alloy thin films by energetic ion irradiation for application in MEMS	Dr. Rahul Singhal	DST New Delhi	Govt. of India	Rs. 12.84 Lakhs	Ongoing
4.	Tailoring the structural, electrical and optical properties of Ag-TiO ₂ , and Ag-ZnO nanocomposite thin films for various applications using energetic ions	Dr. Rahul Singhal	IUAC/ UGC New Delhi	Govt. of India	Rs. 6.51 Lakhs	Ongoing
5.	Block copolymer based nanoporous membranes: Engineering and Applications	Dr. Kamendra Awasthi	DST New Delhi	Govt.	83.00 Lakhs	Ongoing
6.	Fictionalization of track etched membranes for gas separation and sensing	Dr. Kamendra Awasthi	IUAC (UGC) New Delhi	Govt	7.00 Lakhs	Ongoing
7.	High Pressure magnetotransport studies on topological insulator nano devices	Dr. Manoj Kumar	DST, New Delhi	Research	35.00 Lakhs	Ongoing
8.	X-ray absorption spectroscopy and high pressure magneto-transport studies of Bismuth chalcogenide based topological insulators	Dr. Manoj Kumar	UGC DAE CSR, Indore	Research	7.4 Lakhs	Ongoing
9.	Enhancement in the efficiency of organic solar cell using plamonics	Dr. Ritu Vishnoi	DST New Delhi	Research	18.96 Lakhs	Ongoing



New Research Projects (Started in the Year 2015-16):

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Type of funding agency	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Synthesis and Characterization of CZTS based thin films by low cost CBD method for solar cell application	Prof. S. K. Sharma (Mentor)	Department of Science and Technology	Government (for R & D and Academic projects etc.)	18,25,000/-	Started from Aug. 2015
2.	Thermoelectric Properties of Mg ₂ (Si:Sn) and SiSn Alloy with trivalent and pentavalent doping.	Dr. K. Sachdev - Co PI	GITA/DST	Govt.	Rs. 30.69 Lacs	Ongoing
3.	Self-assembled Block Copolymer Nanotemplates for Optoelectronics	Dr. Kamendra Awasthi (Mentor)	Department of Science and Technology	Government (for R & D and Academic projects etc.)	17,05,000/-	Started from Aug. 2015
4.	Laser Driven Particle Acceleration	Ashok Kumar	SERB (DST)	R&D	29.67	Ongoing

11.4 FACULTY/STAFF POSITIONS

STATEMENT SHOWING THE STAFF POSITION

a) Academic Staff

S.No.	Designation	Sanctioned Strength	In position (On 31.3.2016)
1	Director	1	1
2	Professor	68	39
3	Associate Professor	135	60
4	Assistant Professor	270	92

b) Non –Teaching Staff

S. No.	Name of Cadre	Total sanctioned posts	Officers/ officials structured in the cadre
A.	Officers (10 percent of faculty strength)	47	17
1.	Registrar	1	0
2.	Deputy Registrar	5	0
3.	Assistant Registrar	16	6
4.	Executive Engineer	1	1



5.	Assistant Executive Engineer	3	2
6.	Librarian	1	--
7.	Deputy Librarian	1	--
8.	Assistant Librarian	3	1
9.	Senior Medical Officer	1	1
10.	Medical Officer	2	1
11.	Senior Student Activity and Sports (SAS) Officer	1	--
12.	Student Activity and Sports (SAS) Officer	2	2
13.	Principal Scientific/ Technical Officer	1	--
14.	Senior Scientific/ Technical Officer	2	1
15.	Scientific/ Technical Officer	5	2
16.	Security Officer	2	0
B.	Technical Higher (30 percent of faculty strength)	141	50
1.	PB-2 with grade pay of Rs 4200/-	57	41
2.	PB-2 with grade pay of Rs 4600/-	42	06
3.	PB-2 with grade pay of Rs 4800/-	28	03
4.	PB-2 with grade pay of Rs 5400/-	14	00
C.	Technical Lower (30 percent of faculty strength)	142	83
1.	PB-1 with grade pay of Rs 2000/-	57	60
2.	PB-1 with grade pay of Rs 2400/-	43	03
3.	PB-1 with grade pay of Rs 2800/-	28	07
4.	PB-2 with grade pay of Rs 4200/-	14	13
D.	Ministerial Higher (08 percent of faculty strength)	38	11
1.	PB-2 with grade pay of Rs 4200/-	17	09
2.	PB-2 with grade pay of Rs 4600/-	11	00
3.	PB-2 with grade pay of Rs 4800/-	06	02
4.	PB-2 with grade pay of Rs 5400/-	04	00
E.	Ministerial Lower (17 percent of faculty strength)	81	55
1.	PB-1 with grade pay of Rs 2000/-	33	22
2.	PB-1 with grade pay of Rs 2400/-	24	10
3.	PB-1 with grade pay of Rs 2800/-	16	00
4.	PB-2 with grade pay of Rs 4200/-	08	23
F.	Supporting Staff (15 percent of faculty strength)	71	68
1.	PB-1 with grade pay of Rs 1800/-	29	13
2.	PB-1 with grade pay of Rs 1900/-	21	16
3.	PB-1 with grade pay of Rs 2000/-	14	21
4.	PB-1 with grade pay of Rs 2400/-	07	18
	GRANT TOTAL (110 percent of faculty strength)	520	284



WORKING HOURS

The Institute during the year under report observed the following working hours:

1	Academic Departments	8.00 a.m. to 5.00 p.m. Monday to Friday
2	For employees working in the Administrative Block	9.30 a.m. to 6.00 p.m. Monday to Friday
3	Hostels	Round the clock (shift –wise)
4	Estate Department	8.00 a.m. to 5.00 p.m. on all the days of the week and on Sunday, a few members of the staff are called on duty to attend emergency services.
5	Library	Shift wise

11.5 STAFF MEMBERS SPONSORED FOR TRAINING AND LEARNING

DEPARTMENT OF ARCHITECTURE & PLANNING

Keynote addresses by the Faculty in Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Date(s)	Title of Keynote address	Theme	Funding Agency
1.	Tarush Chandra	Panel Discussion	Centre for Energy and Environment (CEE) of MNIT, Jaipur	February 14, 2015	Environmental Clearance Process in India	Environmental Clearance of Infrastructure Projects	IL&FS Academy of Applied Development.

Participation of Faculty in National Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Funding Agency	Date(s)
1.	Tarush Chandra	'MUNICIPALIKA': 13 th International Conference and Exhibition on Sustainable Habitat and Smart Cities	JECC, Jaipur	N/A	December 9-11, 2015

Participation of Faculty in Short Term Courses in India

S. No.	Name of the Faculty	Name of the Course	Place	Funding Agency	Date(s)
1.	Tarush Chandra	16th IIRS Outreach Programme on "Geospatial Technologies for Urban Planning"	MNIT Jaipur, (Outreach Programme by IIRS Dehradun)	NA	Feb.11 - March 15, 2016



Guest Lectures Organized in the Department

S. No.	Name of Speaker	Designation & Affiliation	Topic of Invited Lecture	Date	Funding Agency
1.	Prof. Ing. Luc Boehme	Head of Technology Cluster Construction, Faculty of Engineering and Technology, Ku Leuven University, Belgium	Developing Sustainable proptotypes of Recycled Concrete	February 19th, 2015	MNIT Jaipur
2.	Prof. Ing. Luc Boehme	Head of Technology Cluster Construction, Faculty of Engineering and Technology, Ku Leuven University, Belgium	Recyclable mateerials, industrial slag and contruction waste for sustainability	February 19th, 2015	MNIT Jaipur

Visitors to the Department

S. No.	Name of the Visitor	Designation	Affiliation	Purpose	Date(s)	Funding Agency
1.	Suchi Verma	Design Engineer, Structural Glass Solutions	Saint Gobain India, Ltd.	Interactive Session and Webcast of TRANSPARENCE-2015	February 27, 2015	Saint Gobain India, Ltd.
2.	Silvia Constantini	First Secretary	Delegation of European Union (EU)	Interactive Session with students of Dept. of Architecture and Planning, MNIT Jaipur	March 19, 2015	

Seminar/Conference/Workshop/Short Term Course organized:

S No.	Name of the Organizing Secretary	Designation	Title of Event	Place	Date(s)	Funding Agency
1.	Tarush Chandra	Associate Professor	Design Workshop cum Technical Session of students of Architecture of School of Planning and	Malaviya National Institute of Technology (MNIT) Jaipur	July 31 st to August 3 rd , 2015.	MNIT Jaipur
			Architecture (SPA) Delhi, Central University of Rajasthan (CURAJ) and Malaviya National Institute of Technology (MNIT) Jaipur			



			Workshop on Design Concept and Introduction to 3D Printing	Prabha Bhawan, Malaviya National Institute of Technology (MNIT) Jaipur	April 3, 2015	MNIT Jaipur
2.	Tarush Chandra, Amit Singh	Coordinator, Centre for Advance Design	“Proto-builder Design Challenge”	Prabha Bhawan, Malaviya National Institute of Technology (MNIT) Jaipur	April 10-11, 2015	MNIT Jaipur

CENTRE FOR ENERGY & ENVIRONMENT

Participation of Faculty in Short Term Courses in India

S. No.	Name of the Faculty	Name of the Course	Place	Funding Agency	Date(s)
1.	Dr. Kapil Pareek	TEQIP-II workshop; Electrochemical Technologies in Hydrogen Production and Utilization for Electrical Energy	IIT Delhi	MNIT (CPDA)	8-9 th Oct, 2015
2	Dr. Vivekanand	Biogas Production, Purification and Power Generation	IIT Delhi	TEQIP	18–20 th May, 2015
3	Dr. Amartya Chowdhury	Recent Trends in Solar Energy Technology	IIT Delhi	TEQIP	16-23 rd June, 2015

Guest Lectures Organized in the Department

S. No.	Name of Speaker	Designation & Affiliation	Topic of Invited Lecture	Date	Funding Agency
1.	Dr. S. C. Bhaduri Mr. Vikas Mehta	Prof. Mechanical Engineering, J. K. Lakshmipat University, Jaipur Chemours India Pvt. Ltd.	Possibilities & Issues in Change of Refrigerant in Existing HVAC&R Machinery & Equipments	08 th August, 2015	Institute Fund

Visit of Faculty Members to other Institutions

S. No.	Name of Faculty	Institution / Organization Visited	Purpose of Visit	Date(s) of Visit	Funding Agency
1	Dr Vivekanand	Dr. B. Lal Institute of Biotechnology, Jaipur-Raj	Invited expert talk on, 'Leadership: the Quest' at Dr. B. Lal Institute of Biotechnology, Jaipur.	22 th Mar 2016	Sponsored by the organizer
2	Dr Vivekanand	Clean Water Norway, Hotel Taj, New Delhi	Invited talk on, 'Comparison of India and Norway: approach to business culture' and Moderator Panel Discussion' during 'Norway - India Summit at Hotel Taj Mahal, New Delhi.	14-15 th Mar 2016	Sponsored by the organizer
3	Dr Vivekanand	IIT Indore, Indore-MP	Invited expert talk on, 'Bioenergy: Sustaining the Future, Institute and Industry - Strategies for a Win-Win Concept' during '4th Industry-Academia Conclave -2016' at IIT Indore, Indore.	18-20 th Feb. 2016	Sponsored by the organizer
4	Dr Vivekanand	MNIT Jaipur-Raj	Inspirational lecture on "41 Rashtriya Rifals Mission Sadbhawna" to college students from J&K	4 th Nov.2 015	MNITJ
5	Dr Vivekanand	Government College of Technology, Coimbatore-TN	Invited expert lecture on “Lignin removal” and “Biogas from seaweed” in Faculty Development Program (FDP) on “Sustainable Technologies for Waste to Energy” at Government College of Technology, Coimbatore, India.	10-14 th Aug. 2015	Sponsored by the organizer
6	Dr Vivekanand	Bharathiyar University, Coimbatore-TN	Invited expert lecture on Biogas from Seaweed	12.Aug. 2015	Sponsored by the university

Visitors to the Department

S. No.	Name of the Visitor	Designation	Affiliation	Purpose	Date(s)	Funding Agency
1.	Dr Ashwini Kumar	Scientist and Director of SECI	MNRE	External Examiner	24-28 Nov 2015	MNITJ
2	Dr P. C. Ghosh	Assoc. Professor	IITB	Meeting	22-23 Dec 2015	MNITJ
3	Mr. Amit Kanudia	Director	KAN,ORS-EMR	Meeting	26 Nov 2015	MNITJ



S. No.	Name of the Visitor	Designation	Affiliation	Purpose	Date(s)	Funding Agency
4	Mr. Rakesh Kumar	Director	CRADLE CONTRAVOLTS	CFD Workshop	30/10/2015 to 1/11/2015	MNITJ
5	Dr. Monto Mani	Assoc. Professor	IISc Bangalore	External Examiner	24-28 Nov 2015	MNITJ

Seminar/Conference/Workshop/Short Term Course organized:

S No.	Name of the Organizing Secretary	Designation	Title of Event	Place	Date(s)	Funding Agency
1	Prof Jyotirmay Mathur	Professor	Workshop on "Solar Roof top systems & Way Ahead"	CEE	4 th Nov, 2015	Rajasthan Renewable Energy Corporation Limited
2	Prof Jyotirmay Mathur	Professor	NISE (MNRE) certified training program on "Solar Power Project Development"	CEE	5 th -10 th Oct, 2015	No funding
3	Prof Jyotirmay Mathur	Professor	ECBC training Program	CEE	3 rd -4 th Oct, 2015	Bureau of Energy Efficiency
4	Prof Jyotirmay Mathur	Professor	Building Simulation-2015	Hyderabad	7-9 th Dec, 2015	IBPSA

DEPARTMENT OF CIVIL ENGINEERING

Keynote addresses delivered by the Faculty in Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Date(s)	Title of Keynote address	Theme	Funding Agency
1	A.B. Gupta	Second INSPIRE camp	Manipal University, Jaipur	December 19, 2015	"Environmental science and technology interventions for a healthier society"		DST, GOI
2	A.B. Gupta	Ncgsts-16	GGC Ajmer	January 12, 2016	"Some of my experiments involving green chemistry research"	Green chemistry	



3	A.B. Gupta	ICBN-2016	IIS University, Jaipur,	Jan 31, 2016	Nitrate toxicity and biological nitrogen removal- new dimensions	International Conference on Biotechnology and Nanotechnology	
4	A.B. Gupta	NSCI-III	VGU, Jaipur	February 27, 2016	Drinking water quality in Rajasthan- the associated problems and engineering solutions- role of membrane processes	National Seminar on Current Issues	
5	A.B. Gupta	NCEEP 2016	AIT Jaipur	March 5, 2016	“Energy, Environment and pollution nexus- the way ahead”	Energy and Environment	
6	A.B. Gupta	21st Indian Plumbing Congress	Hotel Clarkes Amer, Jaipur	March 19, 2016	Advances in Biological waste water treatment systems	Plumbing	

Participation of Faculty in National Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Funding Agency	Date(s)
1.	Dr. M. K. Jat	“Flood Planning Mapping using Geospatial Analysis Techniques” Presented in Asian Forum on ICT for Sustainable Development	Malaysia		May 24-27, 2015
2	Dr. S. K. Tiwari	Programme on Institution building and leadership for the Faculty of MNIT Jaipur	IIM Ahmadabad	TEQIP	June 22-25, 2015.
3.	Dr. S. K. Tiwari	Short term course on “Flyash Management for Thermal Power Plant” under the sponsorship of held from at IIT Delhi.	IIT Delhi.	TEQIP-II	December 10-12 th , 2015

Participation of Faculty in Short Term Courses Abroad

S. No.	Name of the Faculty	Name of the Course	Place	Country	Funding Agency	Date(s)
1.	Dr. S. K. Tiwari	7th Asia Pacific Young Researchers And Graduates Symposium	University of Malaysia	Malaysia	TEQIP	20-21 August 2015.



Participation of Faculty in Short Term Courses in India

S. No.	Name of the Faculty	Name of the Course	Place	Funding Agency	Date(s)
1.	Dr. S.K Tiwari	Management capacity enhancement programme (MCEP)	IIM Bangalore	TEQIP –II	Jan 18-22, 2016.

Guest Lectures Organized in the Department

S. No.	Name of Speaker	Designation & Affiliation	Topic of Invited Lecture	Date	Funding Agency
1.	Sh. P.K. Parchure	Regional Director, CGWB, Jaipur	Ground Water Scenario of Rajasthan: Issues & Challenges	29/10/2014	MNIT Jaipur
2.	Dr. Arijit Dey	Scientist-D, CGWB, Jaipur	Groundwater scenario of Rajasthan & management strategies	28/10/2015	MNIT Jaipur
3.	Dr. R.K. Kushwaha	Scientist-C, CGWB, Jaipur	Determination of Aquifer Parameters: Pumping Test Analysis	3/11/2015	MNIT Jaipur
4.	Dr. D.V. Lazarus	Scientist-B, CGWB, Jaipur	Field visit with hands on exercise on Electrical Resistivity (Geophysical) Method.	4/11/2015	MNIT Jaipur
5	Dr. P. K. Khanna	Professor and Head, Dept. of Applied Chemistry Ex-Dean (Academics) DIAT, DRDO, Govt. of India, Girinagar Pune - 411 025, India	Green Nanotechnology for effluent treatment	12/01/2016	MNIT Jaipur
6	Col. Suresh Patil	Colonel, Military, Jaipur	Rejuvenation of Water Bodies /Lakes’.	22.01.2016	MNIT Jaipur
7	DR. Ashutosh Bhardwaj	Scientist, Indian Institute of Remote Sensing, Dehradun	3D Analysis in GIS and DEM Applications	13.01.2016	MNIT Jaipur
8	Dr. S. K. Wadhawan	Ex. Director General, Geological Survey of India	Natural Hazards Assessment and Analysis	02.02.2016	MNIT Jaipur

Visit of Faculty Members to other Institutions as an expert/speaker

S. No.	Name of Faculty	Institution / Organization Visited	Purpose of Visit	Date(s) of Visit	Funding Agency
1.	A. B. Gupta	IIT Kanpur	Delivered an invited talk titled " New challenges of drinking water quality for Public Health Engineers" in the training course on "Water Quality, its Interpretation and Sophisticated Analysis of Heavy Metals and Organics Including Pesticides and Polyaromatic Hydrocarbons"	March 26, 2015	Department of Drinking Water Supply (DDWS), Government of India
2	A. B. Gupta	Atomic Minerals Directorate for exploration and research, Jaipur	Invited lecture in their Training program on "Environmental Management" titled "Statistical Methods for environmental sampling"	October 6, 2015	AMDER, Jaipur
3.	Sanjay Mathur	University of Calgary, Canada	To explore possibilities of joint research	24th, 25th October, 2016	TEQIP
4.	Sanjay Mathur	University of Saskatchewan, Canada	To explore possibilities of joint research	26th, 29th October, 2016	TEQIP
5.	Sanjay Mathur	York University, Canada	To explore possibilities of joint research	29th October- 1st November, 2016	TEQIP
6.	Dr. M.K. Jat	L. D. Engineering College, Ahmadabad, Gujarat	Hydrological Modeling, Geospatial Technologies and their Application in Water Resources	31 st March, 2016	
7	Dr. M.K. Jat	Gujarat Technical University Ahmedabad	Geospatial Technologies and their Application in Water Resources	30 th March, 2016	
8	Dr. M.K. Jat	Department of Civil Engineering, VIT University Vellore	Geospatial Technologies and their Application in Water Resources	23 rd Nov. 2015	
9	Dr. M.K. Jat	Academic Staff College, VIT University Vellore	Hydrological Modeling	25 th Match, 2016	
10	Dr. S. K. Tiwari	ESTI Jaipur	1. Liquefaction of soils 2. Use of geotextile for construction of roads.	13 th Jan 2016	Director ESTI Jaipur



Visitors to the Department

S. No.	Name of the Visitor	Designation	Affiliation	Purpose	Date(s)	Funding Agency
1.	DR. V.M.S.R. Murty	Professor	ISM Dhanbad	(i) To explore the possibilities of MOU between MNIT, Jaipur & ISM, Dhanbad (ii) To discuss about the new M Tech program and research areas on "Tunneling & Underground Space Technology and Geomatics"	Nov. 13, 2015 to Nov. 17, 2015	ISM, Dhanbad

Seminar/Conference/Workshop/Short Term/ Training Course organized:

S. No.	Name of the Organizing Secretary	Designation	Title of Event	Place	Date(s)	Funding Agency
1.	Dr. M. K. Jat	Associate Professor	Hydrological Modeling Using SWMM	Academic Staff College, VIT University, Vellore	22 nd March, 2016	
2	Dr. M. K. Jat Dr. Sudhir Kumar	Associate Professor Professor	Training for 3 rd batch on "Monitoring and Impact Analysis of Watershed Development"	DWDSC Engineers. MNIT, Jaipur	September 18-22, 2015	DWDSC, Govt. of Rajasthan.
3.	Dr. M. K. Jat Dr. Sudhir Kumar	Associate Professor Professor	Training for 3 rd batch on "Planning of Watershed Development Using Geospatial Techniques"	MNIT, Jaipur	September 4-8, 2015	DWDSC, Govt. of Rajasthan.
4.	Dr. M. K. Jat Dr. Sudhir Kumar	Associate Professor Professor	Training cum Orientation Programme on DPR Preparation, Estimation and Geo-hydrology Software"	MNIT, Jaipur	August 26-28, 2015	DWDSC, Govt. of Rajasthan
5.	Dr. M. K. Jat Dr. Sudhir Kumar	Associate Professor Professor	Training for 2 nd batch on "Planning of Watershed Development Using Geospatial Techniques"	MNIT, Jaipur	May 29 – June 02, 2015	DWDSC, Govt. of Rajasthan
6	Dr. M. K. Jat Dr. Sudhir Kumar	Associate Professor Professor	Training for 3 rd batch on "Spatial Analysis Technologies and GIS Database Creation for Watershed Applications"	MNIT, Jaipur	August 21-25, 2015	DWDSC, Govt. of Rajasthan



7	Dr. M. K. Jat Dr. Sudhir Kumar	Associate Professor Professor	Training programme for 1 st batch was organized on the topic of "Monitoring and Impact Analysis of Watershed Development"	MNIT, Jaipur	June 12 - 16, 2015	DWDSC, Govt. of Rajasthan
8	Dr. M. K. Jat Dr. Sudhir Kumar	Associate Professor Professor	Training programme for 1 st batch was organized on topic of "Planning of Watershed Development Using Geospatial Techniques"	MNIT, Jaipur	May 01-05, 2015	DWDSC, Govt. of Rajasthan
9	Dr. M. K. Jat Dr. Sudhir Kumar	Associate Professor Professor	Training programme for 2 nd batch was organized on topic of "Spatial Analysis Technologies and GIS Database Creation for Watershed Applications"	MNIT, Jaipur	April 17- 21, 2015	DWDSC, Govt. of Rajasthan

DEPARTMENT OF CHEMICAL ENGINEERING

Keynote addresses delivered by the Faculty in Seminar/ Symposia/ Workshop/ Conference

S. No.	Name of the Faculty	Title of Event	Place	Date(s)	Title of Keynote address	Theme	Funding Agency
1	Dr. Subbaramaiah V.	Workshop on Storage & Safety of Explosives and Petroleum	MNIT Jaipur	4th December, 2015	Safety Aspects in Process Industries	Explosives	MNIT Jaipur
2	Dr. S. K. Jana	Biyani Group of Colleges, Jaipur	Jaipur	22nd September 2015	Delivered an invited talk in the International Conference, BICON-2015.		Biyani Group of Colleges, India
3	Prof. S. P. Chaurasia	International Workshop on Desalination	Andhra University, Vizag	29th -31st January 2016	Delivered an invited lecture on An Emerging Technology for Water Purification	Membrane Distillation	MNIT Jaipur



4	Prof. S. P. Chaurasia	International Conference on Clean India Technologies	Chennai	11th-13th, February, 2016	Energy Consumption Study on Vacuum Membrane Distillation for Desalination	Role of Desalination and Water Purification organized by Indian Desalination Association and Asia Pacific Desalination Association	MNIT Jaipur
5	Prof. S. P. Chaurasia	National Seminar cum Workshop	Mumbai	10th October 2015	Water Purification by Membrane Distillation	Clean India: Role of Chemical Engineers	Indian Desalination Association and IChE Mumbai Regional Center

Participation of Faculty in International Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Funding Agency	Date (s)
1.	Dr. Suja George	AICHE 2015 Spring Meeting & 11th Global Congress on Process Safety	Austin, Texas, USA	MNIT Jaipur	April 26-30, 2015
2	Dr. Sushant Upadhyaya	2nd International Conference on Desalination using Membrane Technology	Singapore	MNIT Jaipur	July 26-29, 2015
3	Prof. S. P. Chaurasia	International Workshop on Desalination	Andhra University Vizag	MNIT Jaipur	January 29-31, 2016
4	Prof. S. P. Chaurasia	International Conference on Clean India Technologies	Chennai	MNIT Jaipur	February 11-13, 2016



Participation of Faculty in National Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Funding Agency	Date(s)
1.	Dr. Madhu Agarwal	Conference on Advanced Materials and Processing	MNIT Jaipur	MNIT Jaipur	2-4,December, 2015
2.	Dr. Madhu Agarwal	International Conference on Recent Advances in Engineering Science and Management	New Delhi	MNIT Jaipur	30 th , August, 2015
3.	Dr. Madhu Agarwal	National Conference on Recent Advancements in Chemical Sciences RAICS-2015	MNIT Jaipur	MNIT Jaipur	21-23, August, 2015
4.	Dr. Madhu Agarwal	Workshop on Safety of Explosives & Petroleum Products	MNIT Jaipur	MNIT Jaipur and IChE JRC	4-5 Dec.,2015
5.	Dr. Madhu Agarwal	60 th Congress of The Indian Society of Theoretical and Applied Mechanics, An International Conference	MNIT Jaipur	MNIT Jaipur	16-19 December 2015
6.	Dr. Madhu Agarwal	International conference on Recent Trends in Engineering and Material Science(ICEMS-2016)	JNU, Jaipur	MNIT Jaipur	17-19, March,2016
7.	Dr. Rajeev Kumar Dohare	Workshop on Safety and storage of Explosive & Petroleum Products	MNIT Jaipur	MNIT, ICOL	04-05Dec.,2015
8.	Dr. Rajeev Kumar Dohare	National Hindi Symposium	NITTR Chandigarh	MNIT Jaipur	06-07 Sep.,2015
9.	Dr. Rajeev Kumar Dohare	3 rd World Summit on Accreditation (WOSA)	Gurgaon	TEQIP	18-20 March, 2016
10.	Prof. S.P. Chaurasia	3 rd World Summit on Accreditation (WOSA)	Gurgaon	TEQIP	18-20 March, 2016
11.	Dr. Sushant Upadhyaya	3 rd World Summit on Accreditation (WOSA)	Gurgaon	TEQIP	18-20 March, 2016
12.	Dr. Kailash Singh	3 rd World Summit on Accreditation (WOSA)	Gurgaon	TEQIP	18-20 March, 2016
13.	Prof. S. P. Chaurasia	World Water Day-2016	Mumbai	Indian Desalination Association	22 March 2016



Participation of Faculty in Short Term Courses in India

S. No.	Name of the Faculty	Name of the Course	Place	Funding Agency	Date(s)
1.	Dr. Madhu Agarwal	MNIT-USasK workshop cum short term course on Characterization Techniques for high performance Materials	MRC, MNIT Jaipur	MNIT Jaipur	May 25-29, 2015
2	Dr. Rajeev Kumar Dohare Dr. Sushant Upadhyaya	Community Sensitization on road safety organized by IIHMR University	IIHMR University	MNIT	February 23-25,2015
3	Dr. Rajeev Kumar Dohare	Information Security and Challenges (ISC'15)	MNIT	ISEA-II	November 16-20, 2015
4	Dr. Rajeev Kumar Dohare	Advanced Optimization Techniques	MNIT	MNIT	May 18-22, 2015

Guest Lectures Organized in the Department

S. No.	Name of Speaker	Designation & Affiliation	Topic of Invited Lecture	Date	Funding Agency
1.	Mr. Praveen Saxena	Director & CEO, M/s Blast Carboblocks Pvt. Ltd. Mumbai	Graphite: Greener and Energy Efficient materials for chemical process industries	23-11-2015	MNIT Jaipur & IChE JRC
2	Dr. S. Sivakumar	Associate Professor, IIT Kanpur	Nano-engineered materials for biological and energy applications	19-02-2016	MNIT Jaipur
3	Prof. Indra Deo Mall	Distinguished Professor and Head Chemical Engineering in University of Petroleum and Energy Studies, Dehradun.	Petroleum and Petrochemical Industry: Past, Present and Future	15-02-2016	MNIT Jaipur
4	Prof. Anil K. Mehrotra	Professor, Department of Chemical & Petroleum Engineering, University of Calgary, Canada	Heat-Transfer Based Approach for Wax Deposition	18-03-2016	MNIT Jaipur

Visit of Faculty Members to other Institutions as an expert/speaker

S. No.	Name of Faculty	Institution / Organization Visited	Purpose of Visit	Date(s) of Visit	Funding Agency
1.	Dr. V. Subbramanian	NIT Raipur	Delivered lecture on Advanced Oxidation Process: Opportunities and Challenges	18 February, 2016	
2	Dr. Rajeev Kumar Dohare	SVNIT Surat	To participate in Inter NIT Sports Tournament	11-13March,2016	MNIT Jaipur



3	Dr. Kailash Singh	University of Calgary, University of Saskatchewan, and York University, Canada	Research Collaboration	26 October to 2 November, 2015	MNIT Jaipur
4	Prof. S.P. Chaurasia	International Workshop on Desalination at Andhra University, Vizag	Delivered lecture on Membrane Distillation: An Emerging Technology for Water Purification	29-31 January, 2016	MNIT Jaipur

Visitors to the Department

S. No.	Name of the Visitor	Designation	Affiliation	Purpose	Date(s)	Funding Agency
1.	Dr. Faisal I. Khan	Professor & Head of Department Process Engineering	Memorial University of Newfoundland, Canada	To explore possibility of an MOU with MNIT Jaipur	16-1-2016	Memorial University of Newfoundland, Canada
2	Prof. Anil K. Mehrotra	Professor, Department of Chemical & Petroleum Engineering,	University of Calgary, Canada	To sign MoU between University of Calgary and MNIT Jaipur	March 18, 2016	University of Calgary, Canada

Seminar/Conference/Workshop/Short Term Course organized:

S. No.	Name of organizing Secretary	Designation	Title of Event	Place	Date(s)	Funding Agency
1	Dr. R.K. Dohare Dr. S. Upadhyaya Dr. M.L. Meena Dr. Madhu Agarwal	Coordinator Coordinator Co-Coordinator Co-Coordinator	STC on Advanced Application of MATLAB in Engineering	MNIT Jaipur	23-27 November, 2015	TEQIP
2.	Prof. S.P. Chaurasia Dr. R.K. Dohare Dr. S. Upadhyaya Dr. Madhu Agarwal	Convener Convener Convener Convener	Workshop on Storage and Safety of Explosives & Petroleum Products	MNIT Jaipur	4-5 December, 2015	MNIT Jaipur & IChE, JRC

**DEPARTMENT OF CHEMISTRY**

Participation of Faculty in National Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Funding Agency	Date(s)
1.	Dr. Jyoti Joshi	Management capacity enhancement programme	IIM Udaipur	TEQIP	08 th to 13 th June 2015
2.	Dr. Jyoti Joshi	Chaired a session in International conference on (NDCS-2015), Oct. 16 th to 18 th 2015 organized by BITS Pilani	BITS Pilani	DST, DRDO & Aditya Birla Group etc.	Oct. 16 th to 18 th 2015
3.	Dr. Sandeep Chaudhary	Chemistry Departmental Seminar Series	Ljubljana, Slovenia	Department of Chemistry, University of Ljubljana	8-10 Sep, 2015
4.	Dr. Sandeep Chaudhary	Recent Trends in Affordable and Sustainable Drug Discovery and Developments	Uka Tarsadia University, Bardoli, Surat	ISCB International Conference (ISCBC-2016)	06-02-2016
5.	Dr. Sandeep Chaudhary	Emerging Trends in Applied Chemical Sciences (ETACS-2016)	Central University of Rajasthan, Bandarsindri, Kishangarh, Ajmer	Central University of Rajasthan	18-03-2016
6.	Dr. Raj Kumar Joshi	International conference "Organometallic and Coordination Chemistry: Achievements and Challenges."	N. Novogrod, Russia	DST-RFBR, MNIT Jaipur	18-23 September 2015
7.	Dr. Raj Kumar Joshi	Frontiers in Inorganic and Organometallics	IIT Indore, Simrol, Indore	DST	14 April 2016
8.	Dr. Sandeep Chaudhary	Systematic Investigation of Bio-active Ozonides and Aza-Peroxides: Synthesis, Chemistry and their Biological Evaluation.	Department of Physical and Organic Chemistry, Jožef Stefan Institute, Ljubljana, Slovenia	DST-ARRS Indo-Slovenian Joint Research Project	08-09-2015

Guest Lectures Organized in the Department

S. No.	Name of Speaker	Designation & Affiliation	Topic of Invited Lecture	Date	Funding Agency
1.	Dr. Channabasaveshwar V. Yelamaggad	Scientist E1 Centre for Nano and Soft Matter Sciences P.B. No. 1329, Prof. U. R. Rao Road Jalahalli, Bangalore 560 013	“Liquid crystals-Unique State of Matter”	30-10-2015	N/A

Visit of Faculty Members to other Institutions as an expert/speaker

S. No.	Name of Faculty	Institution / Organization Visited	Purpose of Visit	Date(s) of Visit	Funding Agency
1.	Dr. Jyoti Joshi	BITS Pilani	Chair Person, International Conference on Nascent Developments in Chemical Sciences: Opportunities for Academia-Industry Collaboration (NDCS-2015)	October 16-18, 2015	DST
2.	Dr. Jyoti Joshi	DST, Govt. of Raj., Jaipur	For evaluation of proposals of green and environmental chemistry	23th Nov., 2015	DST
3.	Dr. Jyoti Joshi	JECRC Jaipur	To evaluate the paper presentations on technical and scientific concerns	19 th March, 2015	JECRC Foundation
4.	Dr. Raj Kumar Joshi	INOES, Moscow, Russia	Research Collaboration	15th September 2015 to 1st October 2015	DST-RFBR
5.	Dr. Sandeep Chaudhary	Department of Physical and Organic Chemistry, Jožef Stefan Institute, Ljubljana, Slovenia	Invited lecture	08-09-2015	DST-ARRS Indo-Slovenia Joint Research Project
6.	Dr. Sandeep Chaudhary	Department of Chemistry, University of Ljubljana, Ljubljana, Slovenia	Invited Lecture	10-09-2015	---do---
7.	Dr. Sandeep Chaudhary	Department of Chemistry, Sardar Vallabhbhai National Institute of Technology, Surat	Invited lecture	09-02-2016	CPDA



8.	Dr. Sandeep Chaudhary	Department of Chemistry, Alankar P.G. Girls College (Affiliated to University of Rajasthan), Jaipur	Invited lecture	12-02-2016	Self
9.	Dr. Sandeep Chaudhary	Department of Chemistry, Mohanlal Sukhadia University, Udaipur	Invited Lecture	23-02-2016	CPDA
10.	Dr. Sandeep Chaudhary	Department of Chemistry, Birla Institute of Science and Technology (BITS) Pilani-Goa Campus, Goa	Invited Lecture	21-03-2016	Self
11.	Dr. Sandeep Chaudhary	Department of Chemistry, Goa University, Goa	Invited Lecture	22-03-2016	Self

Visitors to the Department

S. No.	Name of the Visitor	Designation	Affiliation	Purpose	Date(s)	Funding Agency
1.	Andrew Burgoyne	Research Scholar	PhD Student	Research Collaboration	26th September 2015 to 16th October 2015	DST-NRF

Seminar/Conference/Workshop/Short Term Course organized:

S No.	Name of the Organizing Secretary	Designation	Title of Event	Place	Date(s)	Funding Agency
1.	Dr. Jyoti Joshi	Convener	CCDDR 2015 (International conference)	MNIT Jaipur	23 rd to 25 th Nov. 2015	MNIT, SERB, New Delhi
2.	Dr. Mukesh Jain	Co-Convener	CCDDR 2015 (International conference)	MNIT Jaipur	23 rd to 25 th Nov. 2015	MNIT, SERB, New Delhi
3.	DR. Raj Kumar Joshi	Coordinator	National conference on "Recent Advancement in Chemical Sciences"	MNIT Jaipur	21-23 August 2015	CSIR New Delhi, MNIT Jaipur and various sponsors
4.	Dr. Sandeep Chaudhary	Convener	Current Challenges in Drug Discovery Research CCDDR 2015	Department of Chemistry, MNIT Jaipur	23 rd – 25 th Nov, 2015	MNIT, SERB, New Delhi
5.	Dr. Sumanta Kumar Meher	Convener	National Conference on Recent Advancements in Chemical Sciences	MNIT Jaipur	21 st -23 rd August 2015	MNIT & CSIR



6.	Dr. Sumanta Kumar Meher	Convener	Conference on Advanced Materials & Processing	MNIT Jaipur	02 nd -04 th December 2015	MNIT
7.	Dr. Sumit Kumar Sonkar	Co-Convener	National Conference on Recent Advancements in Chemical Sciences	MNIT Jaipur	21 st -23 rd August 2015	MNIT & CSIR

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Keynote addresses delivered by the Faculty in Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Date(s)	Title of Keynote address	Theme	Funding Agency
1.	Dr. Vijay Laxmi	National Conference	IIT Roorkee	July 6, 2016	Multi-Core Architectures	Research	Host Institute
2.	Prof. MS Gaur	VDAT 2015	Nirma University	July, 2015	Network on Chip	Research	Host Institute
3.	Prof. M S Gaur	GTU Research Week	GTU	March, 2015	Android Security	Research	Host Institute
4.	Prof. M S Gaur	NIT Warangal	NIT Warangal	March 2016	Mobile Platform Security	Research	Host Institute
5.	Dr. Pilli Emmanuel Shubhakar	International Conference on Recent Trends in Engineering and Material Sciences	JNU, Jaipur	March 18, 2016	Research Challenges in Cloud Computing		
6.	Dr. Pilli Emmanuel Shubhakar	National Conference on Paradigms in Computing (COPIC 2015)	MBM Engineering College, JNVU, Jodhpur	Dec 23, 2015	Big Data Analytics – Research Case Studies		DST
7.	Dr. Pilli Emmanuel Shubhakar	Cloud Security Alliance (CSA) Summit	Bangalore	Sept 11, 2015	Cloud Forensics		CPDA
8.	Dr. Namita Mittal	BICON-International Conference	Jaipur	Sept 21, 2015	Data Mining-issues and applications	Information Technology	Biyani College Jaipur
9.	Dr. Namita Mittal	Machine Learning and Data Analytics, 2016 Workshop	GWECA Ajmer	Jan 16, 2016	Information Retrieval, Recommender System	Machine Learning	Women Engineering College, Ajmer
10.	Dr. Arka Prokash Mazumdar	RTTICC	Government Engineering College Ajmer	March 1, 2016	Internet of Things: The Paradigm Shift	Internet of Things	Government Engineering College Ajmer
11.	Dr. Arka Prokash Mazumdar	WEAR-C-TECH	Government Women Engineering College Ajmer	Oct 3, 2015	Internet of Things	Internet of Things	Government Women Engineering College Ajmer



Participation of Faculty in National Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Funding Agency	Date(s)
1.	Dr. Pilli Emmanuel Shubhakar	Twelfth Annual IFIP WG 11.9 International Conference on Digital Forensics	New Delhi	ISEA	January 4-6, 2016
2.	Dr. Pilli Emmanuel Shubhakar	CCICI Cloud in India Workshop	Bangalore	CPDA	April 29, 2015
3.	Dr. Namita Mittal	One Week National Workshop on Nature Inspired Computing and Applications (NICA-15)	MNIT Jaipur	CPDA	April 2-6, 2015
4.	Dr. Vijay Laxmi	Execitive Tranning Program	IIM Ahmedabad	TEQIP	

Participation of Faculty in Short Term Courses in India

S. No.	Name of the Faculty	Name of the Course	Place	Funding Agency	Date(s)
1.	Dr. Pilli Emmanuel Shubhakar	National Workshop on Nature Inspired Computing and Applications (NICA 2015)	MNIT Jaipur	CPDA	April 2-6, 2015

Guest Lectures Organized in the Department

S. No.	Name of Speaker	Designation & Affiliation	Topic of Invited Lecture	Date	Funding Agency
1.	Dr. VCV Rao	Associate Director CDAC Pune	Parallel Computing (MPI, OpenMP and POSIX) and GPU Computing (CUDA and OpenCL)	Oct 31 – Nov 2, 2015	TEQIP II
2.	Mr. Sangamesh Banappa Mr. Kiran Kannappan	Wipro Calligo Technologies	Code Modernization and Parallel Computing	Aug 25-26, 2015	Intel
3.	PROF. ANIL K. JAIN	University Distinguished Professor, Department of CSE at Michigan State University, 48824-1226	Biometrics and Security	11 Jan 2016	Dept. CSE
4.	PROF. NAOUEL MOHA	Professor, Université de Montréal (Canada)	Supporting Software Evolution through Detection of Patterns and Antipatterns	24 Nov 2015	IIIT Kota



5.	Dr Geetha ManjuNath	Manager and Researcher , Xerox Ltd. Bangalore	Recent issues and application of Semantic web	Feb 7, 2016	MNIT Jaipur
6.	Prof Ela Kumar	Professor and Dean, IGWEC, Delhi University, Delhi	Recent issues and application of Semantic web	Feb 8, 2016	MNIT Jaipur
7.	Prof. Parthasarathi Roop	University of Auckland, New Zealand	Remulation: A New Paradigm for Designing Cyber-Physical Systems: Cardiac Conduction and Heart on a Chip	Feb, 24, 2016	
8.	Dr. Damjan Zazula	System Software Laboratory, Faculty of Electrical Engineering and Computer Science, University of Maribor, Slovenia	Unobtrusive Photoplethysmography in Home Environments	Sept. 23, 2015	
9.	Prof. Naouel Moha	Department of Informatics, University of Québec, Montréal	Supporting Software Evolution through Detection of Patterns and Antipatterns	Nov. 24, 2015	
10.	Prof. Mosbah	University of Bordeaux, France	Models and Formal Approaches of Distributed Systems	November 12, 2015	
11.	Prof. Akka Zemmari	University of Bordeaux, France	Computing in Distributed Complex Systems and Networks	November 12, 2015	
12.	Prof. Adit Singh	University of Auburn, USA	Adaptive Test Methods for Zero Defect Electronics	January 15, 2016	
13.	Dr. Jagdish Lal Raheja	Scientist, CEERI Pilani	Human Activity Recognition	Sept. 23, 2015	
14.	Prof. Vijay K. Vaishnavi	Professor Emeritus, Department of Computer Information Systems, Georgia State University	Design Science Research --	February 05, 2016	
15.	Prof. Anil K. Jain	Professor, Michigan State University	Biolemtrics and Security	Jan. 11, 2016	
16.	Prof. Madhu Mutyam	Professor IIT Madras	Networks on Chip, UKIERI Workshop	December, 2015	



17.	Prof. Sujay Deb	Asst. Professor, IIITD	Networks on Chip, UKIERI Workshop		
18.	Prof. Joyce Meckie	Asst. Professor, IIT Gn	Networks on Chip, UKIERI Workshop		
19.	Prof. John Jose	Asst. Professor, IIT Guwahati	Networks on Chip, UKIERI Workshop		
20.	Prof. Virendra Singh	Associate Prof., IIT Mumbai	Networks on Chip, UKIERI Workshop		

Visit of Faculty Members to other Institutions as an expert/speaker

S. No.	Name of Faculty	Institution / Organization Visited	Purpose of Visit	Date(s) of Visit	Funding Agency
1.	Dr. Vijay Laxmi	Taganrog, Russia	RFBR Project		
2.	Prof. MS Gaur	Taganrog, Russia	RFBR Project		
3.	Prof. MS Gaur	Nirma University	VDAT 2015		
4.	Prof. M S Gaur	GTU	Research Week, GTU		
5.	Prof. M S Gaur	IIIT Delhi	UKIERI Workshop		
6.	Dr. Pilli Emmanuel Shubhakar	NIT Warangal	FDP on Parallel Computing	Feb 14, 2016	EICT
7.	Dr. Pilli Emmanuel Shubhakar	GWEC Ajmer	FDP on Machine Learning for Data Analytics	Jan 18, 2016	TEQIP II
8.	Dr. Pilli Emmanuel Shubhakar	MNIT Jaipur	FDP on Effective Teaching	Dec 16, 2015	TEQIP II
9.	Dr. Pilli Emmanuel Shubhakar	IIIT Bangalore	Joint Workshop of CCICI and IEEE	Oct 31, 2015	CPDA
10.	Dr. Pilli Emmanuel Shubhakar	GWEC Ajmer	Workshop for Enlightenment on Advance Research Trends in Computer Technology	Sept 30, 2015	TEQIP II
11.	Ramesh Babu B	IIITM Gwalior	Guest faculty for course on Special Topics in Information Security	----	IIITM Gwalior

Visitors to the Department

S. No.	Name of the Visitor	Designation	Affiliation	Purpose	Date(s)	Funding Agency
1.	Prof. Parthasarthi Roop	Professor	University of Auckland, New Zealand	Invited talk on Remulation: A New Paradigm for Designing Cyber-Physical Systems: Cardiac Conduction and Heart on a Chip	Feb, 24, 2016	
2.	Dr. Damjan Zazula	Professor	University of Maribor, Slovenia	Invited talk on Unobtrusive Photoplethysmography in Home Environments	Sept. 23, 2015	
3.	Prof. Naouel Moha	Professor	University of Québec, Montréal	Invited talk on Supporting Software Evolution through Detection of Patterns and Antipatterns	Nov. 24, 2015	
4.	Prof. Mosbah	Professor	University of Bordeaux, France	Invited talk on Models and Formal Approaches of Distributed Systems	November 12, 2015	
5.	Prof. Akka Zemhari	Professor	University of Bordeaux, France	Invited talk on Computing in Distributed Complex Systems and Networks	November 12, 2015	
6.	Prof. Adit Singh	Professor	University of Auburn, USA	Invited talk on Adaptive Test Methods for Zero Defect Electronics	January 15, 2016	
7.	Dr. Jagdish Lal Raheja	Scientist	CEERI Pilani	Invited talk on Human Activity Recognition	Sept. 23, 2015	
8.	Prof. Vijay K. Vaishnavi	Professor Emeritus	Georgia State University	Invited talk on Design Science Research --	February 05, 2016	
9.	Prof. Anil K. Jain	Professor	Michigan State University	Biolemtrics and Security	Jan. 11, 2016	

Seminar/Conference/Workshop/Short Term Course organized:

S No.	Name of the Organizing Secretary	Designation	Title of Event	Place	Date(s)	Funding Agency
1.	Prof. M C Govil Dr. Dinesh Goplani Dr. Pilli Emmanuel Shubhakar	Coordinator Coordinator Coordinator	FDP on Parallel Computing	MNIT Jaipur	April 8 – 12, 2016	EICT
2.	Prof. MS Gaur Dr. Vijay Laxmi	CSE Department	Dissemination Workshop on Network on Chip	MNIT Jaipur	10-12-2015 to 12-12-2015	British Council
3.	Prof. MS Gaur Dr. Vijay Laxmi	CSE Department	One day Workshop on “Networks-on-Chip”,	IIIT Delhi	29-03-2015	



4.	Prof. MS Gaur Dr. Vijay Laxmi	CSE Department	International Conference on Security, Privacy and Applied Cryptographic Engineering (SPACE 2015)	MNIT Jaipur	4-7-2015 to 7-07-2015	DRDO, BEL, RedHat
5.	Dr. Meenakshi Tripathi Mr. Ramesh Babu Battula	CSE Department	Information Security and Challenges (ISC'15)	MNIT Jaipur	16-11-2015 to 20-11-2015	
6.	Dr. Neeta Nain Dr. Mushtaq Ahmed Dr. Yogesh Kumar Meena	Coordinator Coordinator Coordinator	National Workshop Machine Vision and Biometrics	MNIT Jaipur	Oct 17-21, 2015	TEQIP
7.	Dr. Namita Mittal Dr. Santosh Kr. Vipparthi	Coordinator Coordinator	Recent Advancement in Engineering and Medical Imaging	MNIT Jaipur	Feb 12-16, 2016	IIIT Kota
8.	Dr. Namita Mittal	Coordinator	Workshop on Data Analytics	MNIT Jaipur	May 12-14, 2015	Self Sponsored
9.	Dr. Namita Mittal	Coordinator	National Conference in Mathematics and Computation	MNIT Jaipur	Feb 20-21, 2016	MNIT Jaipur NITTTR Chandigarh
10.	Mr. Ramesh Babu B	Coordinator	FDP on SDN	MNIT	March 18-22, 2016	MNIT and IIIT Kota
11	Mr. Ramesh Babu B	Publicity chair	SPACE 2015	MNIT	October 3-7, 2015	Self
12.	Mr. Ramesh Babu B	Coordinator	Advanced Wireless Networks	MNIT	June 28- July 2, 2015	TEQIP

DEPARTMENT OF ELECTRICAL ENGINEERING

Keynote addresses delivered by the Faculty in Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Date(s)	Title of Keynote address	Theme	Funding Agency
1.	Dr. Rohit Bhakar	STC on Trends and Challenges in Emerging Power Systems	MNIT Jaipur	19 th – 23 rd October, 2015	Network Pricing	---	Partly Institute Funding
2.	Dr. Rohit Bhakar	National Workshop on Green Energy and Technology	Government Engineering College Ajmer	1-5 February, 2016	Future Challenges to Evolving Green Grids	---	TEQIP
3.	Dr. Satyanarayana Neeli	STTP on Smart Grid Technologies	MNIT Jaipur	04-11-2015	Estimation and Control of Systems based on Multirate Sampling		Partly Institute Funding



4.	Dr. Prerna Jain	STC on Trends and Challenges in Emerging Power Systems	MNIT Jaipur	19 th – 23 rd October, 2015	Deregulation of Electric Supply Industry: Necessity, Evolvement and Overview	---	Partly Institute Funding
5.	Dr. Prerna Jain	Short Term Course on “Advanced Optimization Techniques	MNIT, Jaipur	18 th to 22 nd May 2015	Differential Evolution Algorithm	---	Self Financed
6.	Dr. D. Saxena	One week STC “Trends and Challenges in Emerging Power Systems”	MNIT Jaipur	19 th Oct. – 23 rd Oct, 2015	Monitoring and Analysis of PQ Events using Advanced Digital Signal Processing Techniques	STC	Partly Institute Funding
7.	Dr. D. Saxena	One week STC “Trends and Challenges in Emerging Power Systems”	MNIT Jaipur	19 th Oct. – 23 rd Oct, 2015	Mathematical Modelling of PQ Events and the Simulation of PQ events using MATLAB	STC	Partly Institute Funding
8.	Dr. D. Saxena	One Week Academy Training Programme On Adaptive Signal Processing: Theory and Applications	MNIT Jaipur	26th Feb. to 1st Mar. 2016	Assessing Power System Quality using Digital Signal Processing Techniques	Academy Training Programme	DeitY
9.	Dr. Vijayakumar K	STTP on Smart Grid Technologies	MNIT Jaipur	04-11-2015	Distributed Generation and Control	FDP	Partly Institute Funding
10.	Dr. Vijayakumar K	International Conference On Recent Trends In Engineering And Material Science (ICEMS-2016)	Jaipur National University, Jaipur	17 March, 2016	Renewable Energy-Today Perspective	International Conference	Self funding
11.	Dr. Vijayakumar K	Short Training Program (STP) for supervisors of Indian Railways	MNIT, Jaipur	27/10/2015	Modulation schemes: PWM/AM/FM for speed and VF speed control	STTP	Consultancy
12.	Dr. Vijayakumar K	Short Training Program (STP) for supervisors of Indian Railways	MNIT Jaipur	27/10/2015	DC/DC converters, IGBT based battery chargers	STTP	Consultancy



Participation of Faculty in National Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Funding Agency	Date(s)
1.	Dr. Nitin Gupta	National Workshop on Power Electronics (NWPE-2015)	Department of Electrical Engg., DTU Delhi	CPDA	06 th to 7 th Nov. 2015
2.	Dr. RohitBhakar	6 th International conference on Power Systems	IIT Delhi	MNIT Jaipur	5 th -6 th March 2016
3.	Dr. H. P. Tiwari	Workshop	IIT Kanpur	CPDA	20 th -21 st , Nov. 2015
4.	Dr. H. P. Tiwari	Workshop	CPRI Bangalore	CPDA	3 rd -4 th , March 2016
5.	Dr. KusumVerma	12th IEEE India International Conference (INDICON 2015)	Jamia Millia Islamia, New Delhi, India	CPDA	17 th -20 th Dec.2015
6.	Dr. Vijayakumar K	Workshop on High Performance Computing	Manipal University, Jaipur	Self	8 Jan. 2016
7.					

Participation of Faculty in Short Term Courses in India

S.No.	Name of the Faculty	Name of the Course	Place	Funding Agency	Date(s)
1.	Dr. Nitin Gupta	Summer Faculty Research Fellow Programme – 2015	Department of Electrical Engg., IIT Delhi,	CPDA	18 th to 24 th June 2015
2.	Dr. Nitin Gupta	STC under TEQIP – II on Integrated Automation Technologies	Department of Mechanical Engg., IIT Delhi	CPDA	01 st to 05 th June 2015
3.	Dr. Nitin Gupta	STTP on Advanced Power Electronics & Electrical Drives	Department of Mechanical Engg., NIT Bhopal	CPDA	03 rd to 7 th Jan. 2016
4.	Dr.D. Saxena	“International Training Program on Leadership and Career Development for Women Scientist & Technologists”	IISER Pune	DST	28 th August, 2015 to 1st September, 2015.

Guest Lectures Organized in the Department

S. No.	Name of Speaker	Designation & Affiliation	Topic of Invited Lecture	Date	Funding Agency
1.	Dr. JayaramNakka	Assistant Professor, Department of Electrical Engg., NIT Kurushetra	Multilevel Inverters: Basics, Modelling, Simulation and Hardware Design Technique	18 th Nov. 2015	MNIT Jaipur
2.	Dr. Ian Walker	Department of Psychology, University of Bath, UK	How do People understand their Energy Behaviour	20 th Jan. 2016	MNIT Jaipur
3.	Dr Ram Prasad Potluri	Associate Professor & IIT Kanpur	Path-tracking control of 4WS4WD electric vehicle and moon rover	14 th Sept. 2015	MNIT Jaipur

Visit of Faculty Members to other Institutions as an expert/speaker

S. No.	Name of Faculty	Institution / Organization Visited	Purpose of Visit	Date(s) of Visit	Funding Agency
1.	Dr. Anil Swarnkar	Govt. Mahila Engineering College Ajmer	Expert talk in STTP on “Engineering Applications of MATLAB”	4 Aug 2015	TEQIP, Ajmer
2.	Dr. RohitBhakar	Government Engineering College Ajmer	Expert talk in STTP on “National Workshop on Green Energy and Technology”	1-5 February, 2016	TEQIP

Visitors to the Department

S. No.	Name of the Visitor	Designation	Affiliation	Purpose	Date(s)	Funding Agency
1.	Dr. A.R. Abhyankar	Associate Professor	IIT Delhi	PhD viva voce	3 rd February, 2016	MNIT Jaipur
2.	Prof. M. L. Kothari	Professor	IIT Delhi	Chief Guest, Expert Talk in a Short Term Course	2 Nov 2015	TEQIP
3.	Prof. Bhim Singh	Professor	IIT Delhi	Expert Talk in a Short Term Course	19 th Oct, 2015	Partly funded by MNIT Jaipur
4.	Prof. Sukumar Mishra	Professor	IIT Delhi	Chief Guest, Expert Talk in a Short Term Course	20 th Oct. 2015	Partly funded by MNIT Jaipur



Seminar/Conference/Workshop/Short Term Course organized:

S No.	Name of the Organizing Secretary	Designation	Title of Event	Place	Date(s)	Funding Agency
1.	Dr. Prerna Jain Dr. Dipti Saxena	Coordinators	Short Term Course on Trends and Challenges in Emerging Power Systems	MNIT Jaipur	19 th – 23 rd October, 2015	Partly Institute Funding
2.	Dr. Rajesh Kumar, Dr. Kusum Verma	Coordinators	Short Term Course on “Advanced Optimization Techniques	MNIT, Jaipur	18 th to 22 nd May 2015	Self-Financed
3.	Dr. Rajesh Kumar, Dr. Kusum Verma	Coordinators	One day Workshop on “MATLAB Programming for Research Scholars	MNIT, Jaipur	14 th Sept. 2015	Self-Financed
4.	Dr. Rajesh Kumar, Dr. Kusum Verma	Coordinators	One day Workshop on “Research Publishing Tools	MNIT, Jaipur	21 st Sept. 2015	Self-Financed
5.	Prof. K R Niazi, Dr. Nikhil Gupta, Dr. Anil Swarnkar, Dr. Kusum Verma	Coordinators	Short Term Course on “Smart Grid Technologies”	MNIT, Jaipur	02 nd to 6 th Nov. 2015	TEQIP (Partial)
6.	Dr. Vijayakumar K	Coordinators	Short Term Course on Industrial Automation and Control (IAC-2015)	MNIT, Jaipur	05-09-2015 to 08-09-2015	Partly Institute Funding
7.	Dr. Vijayakumar K	Coordinators	Workshop on Renewable Energy Sources	MNIT, Jaipur	16-01-2016 to 17-01-2016	Self-Financed
8.	Dr. Vijayakumar K	Coordinators	Short Term Course on Emerging Trends in Industrial Automation and Control	MNIT, Jaipur	01-04-2016 to 04-04-2016	Partly Institute Funding

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Keynote addresses by the Faculty in Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Date(s)	Title of Keynote address	Theme	Funding Agency
1.	Prof. K.K. Sharma	Two days workshop sponsored by OSA	School of Electronics Engineering, KIIT University, Bhubaneswar.		Image processing: fundamentals & applications		KIIT University



2.	Prof. K.K. Sharma	STC	Govt. Women Engg. College, Ajmer		MATLAB and applications		Govt. Women Engg. College, Ajmer
3.	Prof. K.K. Sharma	Workshop on Choice based credit system	RGPV, Bhopal	June 02, 2016 to June 03, 2016	Choice based credit system		RGPV Bhopal
4.	Dr. Ghanshyam Singh	Visiting Researcher Talk	Lviv National Polytechnique University, Lviv - Ukraine	December 2015	Lithium Niobate: Optical characterization and device designs	Photonics	DST New Delhi
5.	Dr. Ghanshyam Singh	Visiting Researcher Talk	Department of EEE, Keio University, Hiyoshi Campus, Yokohama (Japan)	February 2016	Objective achievements in the collaborative research project sponsored by DST-JSPS	Photonics	DST-JSPS
6.	Dr. Ghanshyam Singh	Visiting Researcher Talk	Department of Computer, Wakkanai Hokusei Gakuen university, Wakkanai, Japan	February 2016	Introduction to Optics group@MNIT Jaipur Photonic Switching: Devices and Designs	Photonics	DST-JSPS
7.	Dr. Ghanshyam Singh	OSA Visiting Lecturer	Department of Radio Physics and Computer Technologies, Belarusian State University, Minsk, Belarus	31.03.2016 – 03.04.2016	OSA centenary year – 2016: Reflecting a century of innovation. Research trends in Optics and Photonic Technologies	Photonics	Optical Society of America
8.	Dr. Ghanshyam Singh	OSA Young Student Congress on Photonic Technologies	OSA Student Chapter, MNIT Jaipur	16.04.2016	Activities and future plans of OSA Student Chapter	Photonics	OSA



9.	Dr. Vijay Janyani	National Workshop on Recent Advances in Photonics and Optics (RAPO-2015)	Ajmer	November 24-25, 2015	Optical Networks: Energy Efficient, Ultra High Bit Rate, Hybrid Optical Networking Technologies (Invited Talk)	Photonics	--
10.	Dr. Vijay Janyani	National Conference on Advancements in Nano-Electronics and Communications Technologies (ANCT-2016)	Jaipur	17-19 March 2016	Gigabit Passive Optical Networks: Overview and future aspects	Photonics	--
11.	Dr. Lava Bhargava	VLSI & DSP Systems	Jaipur	January 2016	LDPC decoders	VLSI	Govt.
12.	Dr. Lava Bhargava	Dean's Meet	Nagpur	August 2015	Choice based credit system	Academic	Govt.
13.	Dr. Lava Bhargava	Advances in Digital system Design	Ajmer	30 Nov 2015	Advances in FPGA	VLSI	Govt.
14.	Dr. Amit M Joshi	Advances in Digital system Design	Ajmer	1 Dec 2015	FPGA based Digital Design using VHDL	VLSI	Govt.

Participation of Faculty in National Seminar/Symposia/Workshop/Conference

S. No.	Name of conference and workshop	Faculty	Venue	Period
1.	MIMO-OFDM Course	Prof K.K. Sharma	IIT Kanpur	Feb 18, 2016 to Feb 22, 2016



2.	OSA sponsored International Conference Asia Communication and Photonics (ACP-2015)	Dr. Ghanshyam Singh	Hong Kong	Nov. 19, 2015 to Nov. 23, 2015
3.	Schedule for IETE Zonal Seminar on Information and Communication Technologies (ICTs) for Health-care	Dr. Ghanshyam Singh	IETE New Delhi	March 5, 2016 to March 6, 2016
4.	OSA Young Student Congress on Photonic Technologies	Dr. Ghanshyam Singh	OSA	April 16, 2016 to April 17, 2016
5.	Workshop on Compressive Sensing	Dr. Vijay Janyani	MNIT Jaipur	September 12, 2015 to September, 13, 2015
6.	4th Annual NKN Workshop	Dr Vijay Janyani	Hyderabad	January 21, 2016 to January 22, 2016
7.	International workshop on network on chip	Dr. Lava Bhargava	Jaipur	December 10, 2015, to December 12, 2015
8.	SPACES 2015	Dr. Lava Bhargava	Jaipur	October 3, 2015 to October 7, 2015
9.	SOC & Embedded System Design	Dr. Lava Bhargava	Jaipur	February 27, 2016, to March 2, 2016

Participation of Faculty in Short Term Courses Abroad

S. No.	Name of the Faculty	Name of the Course	Place	Country	Funding Agency	Date(s)
1.	Dr. Ghanshyam Singh	Research Visit, Joint Research Project	Lviv	Ukraine	DST New Delhi	
2.	Dr. Ghanshyam Singh	Research Visit, Joint Research Project	Yokohama	Japan	DST New Delhi	

Participation of Faculty in Short Term Courses in India

S. No.	Name of the Faculty	Name of the Course	Place	Funding Agency	Date(s)
1.	Ritu Sharma	Mathematical modeling, MATLAB Programming and their Applications in Engineering and Science	MNIT Jaipur	TEQIP	December 24, 2015 to December 28, 2015.
2.	Dr. Lava Bhargava	VLSI & DSP Systems	Jaipur	E & ICT Academy	January 23 to January 27, 2016



Guest Lectures Organized in the Department

S. No.	Name of Speaker	Designation & Affiliation	Topic of Invited Lecture	Date	Funding Agency
1.	Prof B P Pal	Professor, Mahindra École Centrale College of Engineering, Hyderabad	The International Year of Light 2015 and Light-based Technologies – An Introspection	04 March 2016	MNIT Jaipur
2.	Dr. Shantanu Bhattacharya	Associate Professor, Mechanical Engineering Department, IIT Kanpur	Fabrication, Characterization and Application of various Nano-structures in Sensing and Remediation.	28th October, 2015	Institute
3.	Dr. Vinod Kumar	Alcatel Lucent, France	1-credit intensive course on "Wireless communications: Principles & Research challenges	16-28 Feb. 2015	
4.	Prof. Sastri L.	Kota, USA	Satellite Communication: Principles & Research challenges	6-15 Jan. 2015	
5.	Invited Guest speaker,		Exascale Computing, IMPACT 2015, VIT Jaipur		

Visit of Faculty Members to other Institutions:

S. No.	Name of Faculty	Institution / Organization Visited	Purpose of Visit	Date(s) of Visit	Funding Agency
1.	Dr Vijay Janyani	Keio University Japan	Joint Project	09 Feb, 2016 to 21 Feb 2016	DST
2.	Dr Vijay Janyani	University of Tunis El Manar, Tunisia	Invited talk	03 May, 2015 to 08 May, 2015	Inviting University
3.	Dr Vijay Janyani	Lviv Polytechnic, Ukraine	Joint Project	8 Dec. 2015 to 17 Dec. 2015	DST

Visitors to the Department

S. No.	Name of the Visitor	Designation	Affiliation	Purpose	Date(s)	Funding Agency
1.	Prof. Toshiharu Saiki	Professor	KEIO University, Yokohama, Japan	Visiting Researcher	November 3 – 7, 2015	JSPS (Japan) & DST (India)
2.	Prof B P Pal	Professor	Mahindra École Centrale College of Engineering, Hyderabad	Invited Talk	4 March 2016	MNIT Jaipur
3.	Prof. Bhargab Bhattacharya	Director	ISI Kolkata		Nov. 2015	
4.	Prof. M. S. Bhat	Professor	NITK Surathkal		May 2016	
5.	Dr. S. P. Kochhar	CEO	Telecom Sector Skills Council		April 2016	
6.	Prof. D. B. Phatak	IIT Bombay			April 2016	

Seminar/Conference/Workshop/Short Term Course organized:

S. No.	Name of the Organizing Secretary	Designation	Title of Event	Place	Date(s)	Funding Agency
1.	Mr. Amit M Joshi, Prof. Vineet Sahula, Dr. Lava Bhargava	Asst. Prof. Professor Associate Prof.	VLSI DSP Systems	MNIT, Jaipur	23-27 January, 2016	Electronics & ICT Academy

DEPARTMENT OF HUMANITIES & SOCIAL STUDIES

Participation of Faculty in National Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Funding Agency	Date(s)
1.	Dr. Nupur Tandon	The Sexual Harassment of Women at the Workplace (Prevention, Prohibition & Redressal) Act 2013	Institute of Public Administration, Bengaluru	MNIT Jaipur	18-19 December, 2015
2.	Vibhuti Singh Shekhawat	UIP National Seminar on Indian Democracy: Institutions and Processes	Department of Political Science, University of Rajasthan Jaipur	UGC	19-20 Jan.2016
3.	Dr. Dipti Sharma	98th Annual Conference of the Indian Economic Association	Centre for Economic and Social studies, Hyderabad	CPDA	27-29 Dec. 2015
4.	Dr. Dipti Sharma	National Conference on Indian Economy: A Roadmap towards Development	NITI Aayog Chair University of Rajasthan	Self-Financed	22-24 Jan. 2016



5.	Dr. Preeti Bhatt	XII Annual International Conference of Rajasthan Association for Studies in English on 'Evolving Facets of Translation: Comparative Perspectives, Adaptation, and Popular Culture' organized by Central University of Rajasthan.	Bandra Sindri,	MNIT Jaipur	November 23-24, 2015.
6.	Dr. Preeti Bhatt	National Seminar on 'Multiple Modernisms' organized by Institute for Research in Interdisciplinary Studies and University of Rajasthan, Jaipur.	Jaipur	University of Rajasthan, Jaipur	September 25-27, 2015.
7.	Dr. Preeti Bhatt	TESOL Academy organized by the Regional English Language Office, U.S. Embassy, New Delhi	Chandigarh	TESOL International Association and RELO, Chandigarh	April 24 to 25, 2015
8.	Dr. Preeti Bhatt	National Conference on 'Gender and Media: The Emerging Concerns' organized by University Maharani College, University of Rajasthan, Jaipur	University Maharani College, UOR, Jaipur	MNIT Jaipur	Oct. 16-17, 2015

Participation of Faculty in Short Term Courses in India

S. No.	Name of the Faculty	Name of the Course	Place	Funding Agency	Date(s)
1.	Dr. Preeti Bhatt	FDP on 'Effective Teaching' jointly organized by Department of Management Studies and Department of Metallurgical and Materials Engineering.	MNIT Jaipur	NITTR Chandigarh and MNIT Jaipur	14-18 Dec. 2015

Guest Lectures Organized in the Department

S. No.	Name of Speaker	Designation & Affiliation	Topic of Invited Lecture	Date	Funding Agency
1.	Prof. Vijay Vir Singh	Professor, Department of Economics University of Rajasthan Jaipur, and Director, NITI Aayog Chair University of Rajasthan Jaipur	Economic Transformation of India	24.8.15	MNIT
2.	Prof. Vijay Vir Singh	Professor, Department of Economics University of Rajasthan Jaipur, and Director, NITI Aayog Chair University of Rajasthan Jaipur	Budget 2016 with focus on Fiscal consolidation in India	3.3.16	MNIT

Visit of Faculty Members to other Institutions as an expert/speaker

S. No.	Name of Faculty	Institution / Organization Visited	Purpose of Visit	Date(s) of Visit	Funding Agency
1.	Dr. Nupur Tandon	JKLU, Jaipur	Conduct Course on Communication for PhD scholars	14-15 September, 2015	JKLU, Jaipur
2.	Dr. Nupur Tandon	Rabindra Bharti University, Kolkata	As External Examiner of M. Phil Thesis	28 March, 2016	Rabindra Bharti University, Kolkata
3.	Dr. Dipti Sharma	St. Xavier's College Jaipur	Judge an event Koot-Niti in National Economics Fest: SYNERGY 15	13.09.15	Self-Financed
4.	Dr. Dipti Sharma	Manipal University Jaipur	Expert Lecture on 'China Crisis and its impact on the Indian Economy'	6.10.15	MUJ
5.	Dr. Dipti Sharma	Indira Gandhi Institute of Development Research, Mumbai	Examiner of Doctoral Research entitled Sustainable Energy Security for India	22.12.15	IGIDR
6.	Dr. Dipti Sharma	Rajasthan Public Service Commission Ajmer	Member of Confidential Expert Committee	5.1.16	RPSC
7.	Dr. Dipti Sharma	Government Women Engineering College, Ajmer	Expert Lecture on 'Managerial Skills and Economics'	10.2.16	GWeca
8.	Mrs. Nanny Tripathi and Dr. Preeti Bhatt	IIT Gandhinagar	To discuss and plan the two-week Foundation and Immersion Programme for new entrants at IIT Kota	29 June, 2015	IIT Kota – MNIT Jaipur
9.	Dr. Preeti Bhatt	Government Women Engineering College, Ajmer	To deliver an invited lecture on 'Resume Writing' in the One-Week National Workshop on 'Soft Skills from Classroom to Corporate' from 08 - 13 February, 2016 at GWeca, Ajmer	10 Feb. 2016	GWeca, Ajmer
10.	Dr. Preeti Bhatt	Bansthali Vidyapeeth	To conduct Practical Exam of UG students as an Expert	March 31, 2016	Bansthali Vidyapeeth
11.	Dr. Preeti Bhatt	Regional Institute of English, Chandigarh	Visit organized by RELO, US Embassy, New Delhi during TESOL Academy at Chandigarh	April 24, 2015	RELO, US Embassy, New Delhi



Visitors to the Department

S. No.	Name of the Visitor	Designation	Affiliation	Purpose	Date(s)	Funding Agency
1.	Prof. Pashupati Jha	Professor of English	Dept. of HSS, IIT Roorkee	To conduct the PhD Viva-voce exam of Ms. Kalpna Vijay as External Examiner	Dec. 1, 2015	MNIT Jaipur
2.	Prof. Sudha Shastri	Professor of English	Dept. of HSS, IIT Bombay	As an expert for the Curriculum Development Workshop to revise P.G. Elective Course organized by Dr. Preeti Bhatt on Dec. 7, 2015	Dec. 7, 2015	MNIT Jaipur
3.	Mr. Shashwat Kulshreshtha	Head, Corporate Affairs	Cairn India	As an expert for the Curriculum Development Workshop to revise P.G. Elective Course organized by Dr. Preeti Bhatt on Dec. 7, 2015	Dec. 7, 2015	MNIT Jaipur
4.	Ms. Snigdha Gupta	Associate Director, and Head of Analytics Division	Delhi, Gurgaon	As an expert for the Curriculum Development Workshop to revise P.G. Elective Course organized by Dr. Preeti Bhatt on Dec. 7, 2015	Dec. 7, 2015	MNIT Jaipur

Seminar/Conference/Workshop/Short Term Course organized:

S No.	Name of the Organizing Secretary	Designation	Title of Event	Place	Date(s)	Funding Agency
1	Mrs Nanny Tripathi and Dr Preeti Bhatt	Associate Professor Assistant Professor	Foundation and Immersion Programme for New Students of IIIT Kota	MNIT Jaipur	28 July to 8 Aug. 2015	IIIT Kota – MNIT Jaipur
2.	Dr Vibhuti Singh Shekhawat	Assistant Professor	Curriculum Development Workshop for P.G. Open Electives	Deptt. of Humanities & Soc. Sciences, MNIT Jaipur	7 Dec. 2015	MNIT Jaipur
3.	Dr Preeti Bhatt	Assistant Professor	Curriculum Development Workshop for P.G. Open Elective	Deptt. of Humanities & Soc. Sciences, MNIT Jaipur	7 Dec. 2015	MNIT Jaipur



DEPARTMENT OF MATHEMATICS

Participation of Faculty in National Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Funding Agency	Date(s)
1.	Dr. Ritu Agarwal	International Conference on Analysis and Applications 2015	Aligarh Muslim University, Aligarh	CPDA (MNIT)	Dec 19-21, 2015

Participation of Faculty in Short Term Courses in India

S. No.	Name of the Faculty	Name of the Course	Place	Funding Agency	Date(s)
1.	Dr. Varun Jindal	MATLAB, A Tool in Research	MNIT Jaipur		December 24-28, 2015

Visit of Faculty Members to other Institutions as an expert/speaker

S. No.	Name of Faculty	Institution / Organization Visited	Purpose of Visit	Date(s) of Visit	Funding Agency
1.	Dr Vatsala Mathur	VIT (East) Jaipur	Invited Lectur	19 March 2016	NA
2.	Dr Vatsala Mathur	DST Jaipur	Subject Expert	21 March 2016	NA
3.	Dr. Ritu Agarwal	Poornima College of Engineering, Jaipur	Invited lecture	December 01, 2015	PCE

Visitors to the Department

S. No.	Name of the Visitor	Designation	Affiliation	Purpose	Date(s)	Funding Agency
1.	Prof. Balswaroop Bhatt	Professor	The Univ. of The West Indies	Invited Lectures	Dec. 24, 2015	MNIT Jaipur
2.	Prof. R. C. Mittal	Professor	IIT Roorkee	Invited Lectures	Dec. 26-27, 2015	MNIT Jaipur
3.	Dr. Sumit Kumar	Assistant Professor	IIM Udaipur	Invited Lectures	Dec. 26-27, 2015	MNIT Jaipur
4.	Prof. Maithili Sharan	Professor	IIT Delhi	PhD Viva voce Examination	Jan 15, 2016	MNIT Jaipur



Seminar/Conference/Workshop/Short Term Course organized:

S No.	Name of the Organizing Secretary	Designation	Title of Event	Place	Date(s)	Funding Agency
1	Dr. Rashmi Jain Dr. Ritu Agarwal	Professor Asstt. Prof.	Instructional school for teachers on Algebra	MNIT Jaipur	Dec 07-19, 2016	National Centre for Mathematics, Mumbai and MNIT Jaipur
2.	Dr. Nilama Gupta (Course Coordinator) Dr Santosh Chaudhary (Course Coordinator) Dr. Ritu Sharma (Course Coordinator)	Associate Professor Assistant Professor Assistant Professor	MATLAB, A Tool in Research	MNIT Jaipur	December 24-28, 2015	MNIT Jaipur

DEPARTMENT OF MECHANICAL ENGINEERING

Keynote addresses by the Faculty in Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Date(s)	Title of Keynote address	Theme	Funding Agency
1.	Prof. G. S. Dangayach	Symposium on Disaster Management & Risk Analytics under Big Data Paradigm	Indian Statistical Institute, Kolkata	20 Feb., 2016	Disaster Supply Chain Management	Big Data	ISI Kolkata
2.	Prof. G. S. Dangayach	FDP	Govt. Engg. College, Ajmer	25 November, 2015	Sustainable Manufacturing	Environment Sustainability	Govt. Engg. College, Ajmer
3.	Prof. Rakesh Jain	Conducting & Publishing Quality Research	MNIT, Jaipur	Feb 8-12, 2016	Data Analysis	Quality Research	NITTTR
4.	Prof. Rakesh Jain	Conducting & Publishing Quality Research	MNIT, Jaipur	Feb 8-12, 2016	Non-Parametric Test	Statistics	NITTTR
5.	Prof. Rakesh Jain	Research Methodology	MNIT, Jaipur	Oct 27-31, 2015	Basics of Statistics	Statistics	SF
6.	Prof. Rakesh Jain	Faculty Mentoring Program	Suresh Gyan Vihar University	April 25, 2015	NBA Accreditation: an overview	Accreditation of education	---
7.	Dr. Amit Kumar Singh	Annual 3D Printing Conference, Middle East	Dubai	March 30-31, 2016	Effective Product Development using Reverse Engineering and Additive Manufacturing	Additive Manufacturing	IQPC, DUBAI



8.	Amar Patnaik	Building Materials Characterization and Testing	MNIT Jaipur	1st June to 5th June, 2015	Abrasive test and Material characterization of epoxy filled composites wear9.	Seminar	MNIT Jaipur
9.	Amar Patnaik	Faculty Development Programme (FDP)	Moradabad (UP),	November 7, 2015	Emerging Research Trends in Mechanical Engineering	Workshop	IFTM University
10.	Dr. Harlal Singh Mali	Advanced Materials and Processing	Engineering College Bikaner	22 nd April 2016.	Micro-Nano Finishing Processes	National Seminar	TEQIP Phase-II
11.	Dr. Harlal Singh Mali	Advanced Materials and Processing.	Engineering College Bikaner	23 rd April 2016	Computer Aided Product Design & Manufacturing i.e. Design, Prototype & Part Program on a Single Platform	National Seminar	TEQIP Phase-II
12.	Dr. Harlal Singh Mali	Building Materials Characterization and Testing	MRC, MNIT Jaipur	June 08, 2016	Dynamic Mechanical Analyzer (DMA) a Tool for Mechanical Behavior of Materials	STTP	Self Financed
13.	Dr. Harlal Singh Mali	Achieving Make in India through Manufacturing Excellence (AMITME 2016)	Rajdhani Engineering College, Jaipur	27 th Feb 2016	Computer Aided Product Design & Manufacturing (a) Design (b) Prototype & (c) Part Program on Single Platform	National Conference	Institute
14.	Dr. Harlal Singh Mali	AU India Education Summit 2015	ITC Grand Central, Mumbai, India	6th Aug 15	Technology Trends in Manufacturing	International Summit	Autodesk Inc.
15.	Dr. M. L. Meena	FDP	Govt. Engg. College, Ajmer	25 November, 2015	Design an Environment: Ergonomics	Environment Sustainability	Govt. Engg. College, Ajmer

Participation of Faculty in National Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Funding Agency	Date(s)
1.	Prof. G. S. Dangayach	3 rd World Summit on Accreditation (WOSA)	Hotel Leela New Delhi	MNIT	18-20 March, 2016
2.	Prof. G. S. Dangayach	Orientation Workshop of NBA evaluators	India Habitat Centre, New Delhi	NBA	16 Nov., 2015
3.	Prof. G. S. Dangayach	11 th FICCI Higher education summit 2015	New Delhi	MNIT	3-4 Nov., 2015
4.	Prof. S. L. Soni	14th International Conference on sustainable energy technologies, by Nottingham University UK	Nottingham, UK		25-08-2015 to 27-08-2015



5.	Prof. S. L. Soni	Round table of Private Universities at GLA University, Mathura	Mathura, Uttar Pradesh		15-09-2015 to 16-09-2015
6.	Prof. S. L. Soni	W.Z. VCs Conference organized by Shivaji Rao University Kolhapur	Kolhapur, Maharashtra		26-11-2015 to 27-11-2015
7.	Prof. S. L. Soni	NBA- World Summit on Accreditation	Gurgaon		18-03-2016 to 20-03-2016
8.	Dr. Dinesh Kumar	Short Term Training Program Building Materials Characterization and Testing	MNIT Jaipur	Self	1st - 5th June, 2015
9.	Amar Patnaik	International Conference on Multifunctional Materials for Future Applications,	IIT BHU	IIT BHU	Oct.27 – 29, 2015
10.	Amar Patnaik	International Conference on Emerging and Futuristic Trends in Engineering & Technology	Maharaja Agrasen University at Solan HP	Maharaja Agrasen University at Solan HP	8-9 May 2015
11.	Dr. Harlal Singh Mali	COPEN-9	IIT Bombay	CPDA	9-12 Dec 2015
12.	Prof. Dilip Sharma	14th International Conference on sustainable energy technologies, by Nottingham University UK	Nottingham, UK		25-08-2015 to 27-08-2015
13.	Prof. Dilip Sharma	NBA- World Summit on Accreditation	Gurgaon		18-03-2016 to 20-03-2016
14.	Dr. M. L. Meena	3 rd World Summit on Accreditation (WOSA)	Hotel Leela New Delhi	MNIT	18-20 March, 2016
15.	Dr. M. L. Meena	11 th FICCI Higher education summit 2015	New Delhi	MNIT	3-4 Nov., 2015

Participation of Faculty in Short Term Courses Abroad

S. No.	Name of the Faculty	Name of the Course	Place	Country	Funding Agency	Date(s)
1.	Dr. Amit Kumar Singh		York University, University of Saskatchewan, Calgary University	CANADA	TEQIP	24 th October- November 3 rd , 2016

Participation of Faculty in Short Term Courses in India

S. No.	Name of the Faculty	Name of the Course	Place	Funding Agency	Date(s)
1.	Dr. Dinesh Kumar	Under Global Initiative of Academic Networks (GIAN), MHRD, a course on "Modeling and Simulations at Nanoscale and Nanostructures	MNNIT Allahabad	MHRD, GOI	March 7-11, 2016
2.	Dr. Amit Kumar Singh	Laboratory Quality Management System and Internal Audit	Kolkata	Institute of Applied Quality Management	October 12 th -15 th , 2015
3.	Dr. Gunjan Soni	'Nature Inspired Computing & applications'	Jaipur	Self-sponsored	April, 2nd-6th, 2015

Guest Lectures Organized in the Department

S. No.	Name of Speaker	Designation & Affiliation	Topic of Invited Lecture	Date	Funding Agency
1.	Dr. Gagan Syal	GM Mercedes Benz R&D India Whitefield Palms Bangalore-66	Sustainable Manufacturing	Nov. 2015	MNIT
2.	Dr. D. S. Khatri	Chairman, Vemsys Technologies, Gurgaon			
3.	Vijay K. Vaishnavi	Professor in Electrical Engineering Department, Georgia, State University	Design Science Research Method & Patterns	4 th February, 2016	TEQIP
4.	Mr. J.C Jha	Vice president, Manufacturing, NEI Ltd., Jaipur	Significance of 5S in Indian context	27th Jan, 2016	IIIE, Jaipur Chapter

Visit of Faculty Members to other Institutions as an expert/speaker

S. No.	Name of Faculty	Institution / Organization Visited	Purpose of Visit	Date(s) of Visit	Funding Agency
1.	Prof. G. S. Dangayach	SLIET, Longowal, Sangrur	NBA Accreditation	20-22 Nov 2015	NBA
2.	Prof. G. S. Dangayach	Gyan Ganga Institute of Tech. & Science, Jabalpur	NBA Accreditation	18-20 Sep 2015	NBA
3.	Amar Patnaik	MNIT Jaipur	speaker	1st June to 5th June, 2015	MNIT Jaipur
4.	Amar Patnaik	Sundernagar, H.P	speaker	28/10/2015	JNGEC, H.P
5.	Amar Patnaik	Moradabad (UP),	speaker	7/11/2015	IFTM University,
6.	Amar Patnaik	Dr. B.R. Ambedkar NIT, Jalandhar	Expert	17/08/2015	NIT, Jalandhar



7.	Gunjan Soni	National Productivity Counsel, Jaipur	Speaker	27/10/2015	NPC, India
8.	Gunjan Soni	Rajdhani Campus, Jaipur	Speaker	26/02/2016	Self-sponsored
9.	Dr. Harlal Singh Mali	Semi-Conductor Laboratory (SCL), Mohali	Industrial Visit along with of Students	March 28 th 2016	Institute
10.	Dr. Harlal Singh Mali	Advanced Tech. Pvt. Ltd., Chandigarh	Industrial Visit along with of Students	March 29 th 2016	Institute
11.	Dr. Harlal Singh Mali	Florida International University, Miami USA,	Member of Faculty Delegation for Academic & Research Collaboration	1st - 2nd Nov, 2015	TEQIP
12.	Dr. Harlal Singh Mali	University of Illinois in Urbana-Champaign(UIUC), USA	Member of Faculty Delegation for Academic & Research Collaboration	3rd Nov, 15	TEQIP
13.	Dr. Harlal Singh Mali	The Ohio State University, Columbus USA	Member of Faculty Delegation for Academic & Research Collaboration	4th - 5th November, 2015	TEQIP
14.	Dr. Harlal Singh Mali	AU-SAARC 2015 Annual Summit, Mumbai.	Academic Council Member in Summit.	7 th Aug 15	Autodesk Inc.
16	Prof. Dilip Sharma	GMR Institute of Technology, GMR Nagar, Rajam-532127, Srikakulam District, A. P.	NBA Accreditation	04 - 06 Sept. 15	NBA
19	Prof. Dilip Sharma	Ghousia College of Engineering, Ramanagaram District Karnataka	NBA Accreditation	11 - 13 March 16	NBA
20	Prof. Dilip Sharma	North Eastern Regional Institute of Science & Tech, Nirjuli, Itanagar, A. P.	NBA Accreditation	06 - 08 May16	NBA

Visitors to the Department

S. No.	Name of the Visitor	Designation	Affiliation	Purpose	Date(s)	Funding Agency
1.	Mr. J. C. Jha,	V.P. Manufacturing,	NEI India Ltd.	Lecture	27.01.16	MNIT
2.	Dr. Ing. Gagan Syal,	Manager	Mercedes Benz	Lecture	27.10.15	MNIT

3.	Dr. A. K. Nayak ,	Senior Scientist and Head	Babha Atomic and Research Centre (BARC), Mumbai	Lecture	20.08.2015	MNIT
4.	Dr. Nachiketa Tiwari	Associate Professor	Mechanical Engg. Deptt., IIT Kanpur	Lecture	30-3-2015	MNIT
5.	Padma Vibhushan Prof. R.A. Mashelkar	Ex-Director General	Council of Scientific & Industrial Research (CSIR)	Department visit	11.12.15	MNIT
6.	Padma Shri Dr. Upendra Kaul	Executive Director	Academics & Research(Cardiology)	Department visit	11.12.15	MNIT
7.	Mr. S.Y. Siddiqui, chief Mentor, Maruti Suzuki India Ltd.	Chief Mentor	Maruti Suzuki India Ltd.	Department visit and academic collaboration	07.09.15	MNIT
8.	Prof. Pradeep Kumar	Professor	IIT Roorkee	Lecture	09.03.2016	MNIT

Seminar/Conference/Workshop/Short Term Course organized:

S No.	Name of the Organizing Secretary	Designation	Title of Event	Place	Date(s)	Funding Agency
1.	Dr. Dinesh Kumar	Assistant Professor	60 th International Conference of Indian Society of Theoretical and Applied Mechanics (ISTAM 2015)	MNIT Jaipur	December 16-19, 2015	DRDO, INSA, MNIT Jaipur and a few Sponsorships
2.	Dr. Amit Kumar Singh	Assistant Professor	“Simulation Based Engineering Science: A Scientific Approach to Engineering”		20-21 st April, 2015	Self Sponsored, Registration fees
3.	Amit Singh, Amar Patnaik	Assistant Professor	Simulation Based Engineering Science: A Scientific Approach to Engineering	MNIT Jaipur	20th -21st April, 2015	MNIT Jaipur and RTU Kota
4.	Dr. M.L. Mittal and Dr. Gunjan Soni	Assistant Professor	Research Methodology	MNIT Jaipur	27-31 Oct.2015	Self-sponsored
5.	Organizing Chairman: Prof. Dilip Sharma Organizing Secretary: Dr Dinesh Kumar	Professor; Assistant Professor	International Conference of Indian Society of Theoretical and Applied Mechanics (ISTAM) 2015	MNIT Jaipur	16-19 December, 2015	MNIT Jaipur
6.	Prof. S.L. Soni (Convener) and Dr. Gunjan Soni (Co-convener)	Professor; Assistant Professor	Curriculum Development Workshop	MNIT Jaipur	28th -29th January, 2016	MNIT Jaipur



7	Prof. G.S. Dangayach	Professor	MoU with HMT	MNIT Jaipur	20th April, 2016	MNIT Jaipur
8	Dr. Harlal Singh Mali	Assistant Professor	ksedotuA" no PTTS® noisuF "noitalumiS decnavdA:360	Computer Center, MNIT Jaipur	9 th to 10 th January 2016	Autodesk Inc. & MNIT Jaipur
9	Dr. Harlal Singh Mali	Assistant Professor	STTP on "Project based Autodesk® Fusion 360"	Computer Center, MNIT Jaipur	7 th May 2016	Autodesk Inc. & MNIT Jaipur
10	Dr. Sandeep Chaudhary & Adjunct Faculty of MRC (Dr. Harlal Singh Mali)	Assistant Professor	STTP on "Building Materials Characterization and Testing"	MRC, MNIT Jaipur	06 -10 June 2016	Self Financed.

DEPARTMENT OF MANAGEMENT STUDIES

Keynote addresses delivered by the Faculty in Seminar/ Symposia/ Workshop/ Conference

S. No.	Name of the Faculty	Title of Event	Place	Date(s)	Title of Keynote address	Theme	Funding Agency
1	Dr. Deepak Verma	STTP on Research Methodology	MNIT Jaipur	Oct. 29, 2015	Multivariate Scaling	Multivariate Analysis	NA
2	Dr. Deepak Verma	STTP on Research Methodology	MNIT Jaipur	Oct. 30, 2015	Multivariate Analytical Techniques	Multivariate Analysis	NA
3	Dr. Deepak Verma	STTP on Effective Teaching	MNIT Jaipur	Dec. 17, 2015	Designing courses for Objective Based Learning	Teaching Pedagogy	NITTR
4	Dr. Deepak Verma	STTP on Conducting and Publishing Quality Research	MNIT Jaipur	March 1, 2016	Measurement and Scaling	Research Methodology	NITTR
5	Dr. Deepak Verma	STTP on Conducting and Publishing Quality Research	MNIT Jaipur	March 2, 2016	Correlation & Regression Analyses	Predictive Statistical Analysis	NITTR
6	Dr. Deepak Verma	STTP on Conducting and Publishing Quality Research	MNIT Jaipur	March 3, 2016	Factor and Cluster Analyses	Multivariate Statistical Analysis	NITTR
7	Dr. Monica Sharma	National Conference on "Energy & Sustainability in Engineering System"	MAIET, Jaipur	18-19 March 2016	Energy and Sustainability in engineering Systems: an overview	Energy & Sustainability	NA

Guest Lectures Organized in the Department

S. No.	Name of Speaker	Designation & Affiliation	Topic of Invited Lecture	Date	Funding Agency
1	Dr. GP Rao	Management Advisor & CEO GPR Consulting	Campus to Corporate	July 29, 2015	MNIT Jaipur
2	Dr. Rupande Padaki	Director The P&P Group, Bengaluru	Beyond class rooms learning for overall development of Manager	Aug.13, 2015	MNIT Jaipur
3	Dr. Keith C. D'Souza	Professor, SPJIMR Director, Human Touch HR and OD Services	Leadership for Organizational and Social Transformation	Sept. 18, 2015	MNIT Jaipur
4	Allen Sequeira	H.R. Council Director, India and Senior Fellow, Human Capital The Conference Board; Consultant	Future – proofing Gen Y vis-a-vis Expectations from India Inc.	Oct. 10, 2015	MNIT Jaipur
5	Dr. S K Pandey	Associate Professor, IIM Rohtak	Formulating Research Problems	Dec. 14, 2015	MNIT Jaipur
6	Dr. Suresh Jakhar	Assistant Professor IIM Rohtak	Getting your Research Published	Dec. 15, 2015	MNIT Jaipur

Visit of Faculty Members to other Institutions as an expert/speaker

S. No.	Name of Faculty	Institution / Organization Visited	Purpose of Visit	Date(s) of Visit	Funding Agency
1.	Dr. Satish Kumar	CRIT, IIS University, Jaipur.	Expert Lecture at 7-Day Workshop on Research Methodology for Faculty of Science	March 26, 2016	IIS University
2	Dr. Satish Kumar	IMS Ghaziabad	Expert Lecture on Corporate Finance to MBA students	November 6-7, 2015	IMS Ghaziabad
3	Dr. Satish Kumar	GITAM University Visakhapatnam	Expert Lecture and Viva Voce examination of MBA Students	October 10-15, 2016	GITAM University Visakhapatnam
1.	Dr. Deepak Verma	Deenbandhu Chhotu Ram University of Science & Technology, Murthal	Evaluation of MBA Projects/Dissertation	Sep. 10-11, 2015	
2.	Dr. Deepak Verma	Deenbandhu Chhotu Ram University of Science & Technology, Murthal	Expert Lecture on Information and Systems Security	Sep. 11, 2015	
3.	Dr. Deepak Verma	Deenbandhu Chhotu Ram University of Science & Technology, Murthal	Session Co-chair (Role of Emerging Technologies) at 2 nd National Seminar on Technology, Innovations and Entrepreneurship in 21st Century	March 17, 2016	



Seminar/Conference/Workshop/Short Term Course organized:

S No.	Name of the Organizing Secretary	Designation	Title of Event	Place	Date(s)	Funding Agency
1	Dr. Satish Kumar Dr. R. K. Duchaniya	Coordinator	FDP on Effective Teaching	Jaipur	14-18 December 2015	NITTTR Chandigarh
2	Dr. Deepak Verma Dr. Satish Kumar	Coordinator	STTP on Conducting and Publishing Quality Research	Jaipur	February 29- March 4, 2016	NITTTR Chandigarh
3	Prof. Awadhesh Bhardwaj Dr. Monica Sharma	Professor Asst. Prof.	Entrepreneurship Awareness Camp	MNIT	6-8 April 2015	EDI, Ahmadabad through DST, GOI
4	Prof. Awadhesh Bhardwaj Dr. Monica Sharma	Professor Asst. Prof.	Entrepreneurship Awareness Camp	Govt. Mahila Engg. College Ajmer	21-23 August 2015	EDI, Ahmadabad through DST, GOI
5	Prof. Awadhesh Bhardwaj Dr. Monica Sharma	Professor Asst. Prof.	Entrepreneurship Awareness Camp	Jaipur Institute of Engineering & Management	28-30 Sept 2015	EDI, Ahmadabad through DST, GOI
6	Prof. Awadhesh Bhardwaj Dr. Monica Sharma	Professor Asst. Prof.	Entrepreneurship Awareness Camp	Maharishi Arvind Institute of Engg. and research centre	12-14 Oct 2015	EDI, Ahmadabad through DST, GOI
7	Prof. Awadhesh Bhardwaj Dr. Monica Sharma	Professor Asst. Prof.	Entrepreneurship Awareness Camp	Poornima group of inst. Mansarovar	12-14 Feb 2016	EDI, Ahmadabad through DST, GOI
8	Prof. Awadhesh Bhardwaj Dr. Monica Sharma	Professor Asst. Prof.	Entrepreneurship Awareness Camp	MAIET, Jaipur	18-20 march 2016	EDI, Ahmadabad through DST, GOI
9	Prof. Awadhesh Bhardwaj Dr. Monica Sharma	Professor Asst. Prof.	Entrepreneurship Awareness Camp	Rajasthan Engg. College Dausa	26-28 Feb 2016	EDI, Ahmadabad through DST, GOI
10	Prof. Awadhesh Bhardwaj Dr. Monica Sharma	Professor Asst. Prof.	Entrepreneurship Awareness Camp	Dr Radhakrishan Ins. of Tech.	21-23 march 2016	EDI, Ahmadabad through DST, GOI

DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING

Keynote addresses delivered by the Faculty in Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Date(s)	Title of Keynote address/Expert lecture	Theme	Funding Agency
1	Prof. A. K. Bhargava	Workshop	MNIT Jaipur	20.10.2015	Heat Treatment of Aluminium Alloys	Best Practices in Melting and Casting of Aluminium Alloys	TEQIP-II/MNITJ
2	Prof. Ashok Sharma	National Workshop	MNIT Jaipur	Jan. 9-10, 2016	Application of DSC in Solidification Study of Hypoeutectic Al-Si Alloys	Thermal Analysis of Materials	TEQIP-II/MNITJ
3	Prof. A. K. Bhargava	Workshop	MNIT Jaipur	30.09.2015	Structure-Property of Polymer Materials	Structure-property Correlation	MNITJ
4	Prof. C.P. Sharma	Workshop	MNIT Jaipur	30.09.2015	Microstructural Aspects of Failure	Structure-property Correlation	MNITJ
5	Prof. M.K. Bannerjee	Workshop	MNIT Jaipur	01.10.2015	Structure-Property Correlation: Case studies	Structure-property Correlation	MNITJ
6	Prof. S. K. Biswas	Workshop	MNIT Jaipur	01.10.2015	Structure-Property of Ceramics	Structure-property Correlation	MNITJ
7	Prof. A.K. Bhargava	Conference	MNIT Jaipur	02.12.2015 To 04.12.2016	Wear behavior of in-situ grown ceramic film on Zirconium for orthopedic implants	Advanced Materials and Processing	TEQIP-II/MNITJ
8	M. K. Bannerjee	CAMP2015	MNIT	2-4 DEC	New generation TE material	ADV. MAT	---
9	M. K. Bannerjee	Frontiers in molecular science	MNIT	5-6 DEC	Metamagnetic shape memory alloy	Molecular Science & Technology	---
10	M.K. Bannerjee	Energy Material	TAIWAN	27-28AUG,15	Effect of second phase on thermoelectric	Energy material	ORGANISER
11	M. K. Bannerjee	OCTG	CHINA	22 DECEMBER,15	New generation steel as OCTG	OCTG	ORGANISER



Participation of Faculty in National Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Funding Agency	Date(s)
1	Prof. S. K. Biswas	Indian National Conference on Applied Mechanics	IIT Delhi	TEQUIP	12 th to 15 th July, 2015
2	Dr. R. K. Duchaniya	Workshop on Renewable Energies: Thermoelectric and Photovoltaics	Taiwan	MNIT Jaipur	27-08-2015 to 28-08-2015
3	Dr. R. K. Duchaniya	Model Curriculum for Material Science and Metallurgical Branch	Nagpur	NIT Nagpur	26-02-2016
4	Dr. R. K. Duchaniya	Materials and Metallurgy Curriculum	Srinagar	MNIT Jaipur	08-10-2015 to 09-10-2015
5	Dr. R. K. Duchaniya	3 rd World Summit on Accreditation	Gurgaon (Delhi NCR)	MNIT Jaipur	18-03-2016 to 20-03-2016
6	Vinod Kumar	Third World Summit on Accreditation (WOSA)	New Delhi	TEQIP-II	March 18-20, 2016
7	Vinod Kumar	17th Asian Pacific Corrosion Control Conference (APCCC)	IIT Bombay	From DST Project	January 27-30, 2016
8	Dr. Vijay N Nadakuduru	Workshop on "Materials and Metallurgy Curriculum"	NIT Srinagar	TEQIP	8 - 9 October 2015
9	Dr. Vijay N Nadakuduru	MODEL CURRICULUM MEETING	NIT Nagpur	Institute (MNIT Jaipur)	26th February 2016

Visit of Faculty Members to other Institutions as an expert/speaker

S. No.	Name of Faculty	Institution / Organization Visited	Purpose of Visit	Date(s) of Visit	Funding Agency
1.	Prof. Ashok Sharma	University of Petroleum and Energy Studies, VPO-Bidholi, Dehradun	To deliver expert lecture	17-08-2015	Host Institute
2	Prof. S. K. Biswas	MNNIT Allahabad	Invited Lecture on "Ceramic Armor" in Society of Applied Mechanics, MNNIT, Allahabad, 19 th May, 2015	19 th May, 2015	MNNIT, Allahabad
3	Prof. S. K. Biswas	CERDC, Bikaner	Advise to Faculty of CERDC and Guidance of research to PhD Students	20 th April, 2015 to 22 nd April 2015	CERDC, Bikaner
4	Prof. M. K. Bannerjee	University of Michigan, Ann Arbor, USA	Interaction	June 2015	---

Visitors to the Department

S. No.	Name of the Visitor	Designation	Affiliation	Purpose	Date(s)	Funding Agency
1	Dr. M. K. Totlani	Executive Director	ASM India Chapter	To conduct Materials Camp	May 4-8, 2015	ASM India Chapter
2	Dr. A. K. Nayak	Scientist	BARC Mumbai	Interaction with faculty for collaboration	20.08.2015	MNITJ
3	Dr. Surendra Kumar	Professor	IIT Roorkee	To deliver expert lecture	11.09.2015	MNITJ
4	Dr. V.S. Raja	Professor	IIT Bombay	To deliver expert lecture	01.10.2016	MNITJ
5	Dr. B. Ravi	Professor	IIT Bombay	To deliver expert lecture	19.10.2015	MNITJ
6	Dr. M. K. Bhargava	Professor	Former Prof. MNITJ	To deliver expert lecture	19.10.2015 and 20.10.2015	MNITJ
7	Dr. Haranath Ghosh	Scientific Officer/G	RRCAT, DAE Indore	Visit to Lab	2 nd Nov.2015	DAE
8	Padmashree Prof. Srikumar Bannerjee	Homi Bhabha Chair Professor	DAE	Visit to Lab and guidance to Faculty and Students	3 rd Dec. 2015	MNIT
9	Prof. Krishan Lal	Ex-President INSA	NPL	Visit to Lab and guidance to Faculty and Students	3 rd Dec. 2015	MNIT
10	Parimal P. Kulkarni	Scientist D	BARC	To deliver talk and discuss with research scholar	09-01-2016 to 10-01-2016	MNIT Jaipur
11	Ravi Gupta	Manager	Vedanta Group	To discuss possible MOU with Vedanta Group	20-11-2015	MNIT Jaipur
12	Naveen Jaju	CA	Vedanta Group	To discuss possible MOU with Vedanta Group	Oct 2015	MNIT Jaipur
13	Sanjiv Paul	Managing Director	Tata Metaliks	To discuss possible MOU	23-11-2015	MNIT Jaipur
14	Sri Kumar Bannerjee	Padam Shree and HomiBhabha Chair, BARC, Mumbai	BARC	To visit Department and discuss with faculty	02-12-2015	MNIT Jaipur
15	Dr. Ryoji Funahashi	Chief Senior Researcher	Advanced Industrial Science and Technology, Japan	Expert Talk	05-12-2015 to 06-12-2015	MNIT Jaipur
16	Dr. Li-Chyong Lin Chen	Distinguished Research fellow & Director, NTU, Taiwan	National Taiwan University	Expert Talk	05-12-2015 to 06-12-2015	MNIT Jaipur



17	Ching-Ming Wei	Distinguished Research fellow	Institute of Atomic and Molecular Science, Academia Sinica, Taiwan	Expert Talk	05-12-2015 to 06-12-2015	MNIT Jaipur
18	Prof. Kishan Lal	Pat President, INSA	INSA	To visit Department and discuss with faculty	02-12-2015	MNIT Jaipur
19	Dr Funahashi	Professor	Japan Inst. Of Sc and Tech	interaction	Sept., 2015	By the visitor
20	K-H Chen	Dy Director	Academia Sinica Taiwan	interaction	Sept., 2015	By the visitor
21	Prof Wei	Professor	National Taiwan Univ.	interaction	Sept., 2015	By the visitor
22	Prof Maumon	Advisor	Blade int.	lecture	Sept., 2015	

Seminar/Conference/Workshop/Short Term Course organized:

S No.	Name of the Organizing Secretary	Designation	Title of Event	Place	Date(s)	Funding Agency
1	Prof. Upendra Pandel Prof. C. P. Sharma Prof. A. K. Bhargava	Coordinators	Workshop on "Waste to Energy - Challenges and Opportunities"	MNIT Jaipur	11.09.2015	MNIT
2	Prof. Upendra Pandel Prof. C. P. Sharma Prof. A. K. Bhargava	Coordinators	Two-Day Workshop on Structure - Property Correlation	MNIT Jaipur	30.09.2015 To 01.10.2015	MNIT
3	Prof. Ashok Sharma	Convener	Two days' workshop on 'Best Practices in Melting and Casting of Aluminium Alloys'	MNIT Jaipur	19.10.2015 to 20.10.2015	MNIT
4	Prof. S. K. Biswas	Chairman	Conference on Advanced Materials & Processing	MNIT Jaipur	02.12.2015 To 04.12.2015	MNITJ
5	Prof.S. K. Biswas	Convener	MNIT-DRDO-OFB Meet	MNIT	29.01.2016	MNITJ
6	Prof. Ashok Sharma	Professor	One day workshop on 'Mechanical Properties of Aged Materials'	MNIT Jaipur	26.02.2016	MNIT
7	Dr. R. K. Duchaniya	Convener	National Short Term Course on Effective Teaching	MNIT Jaipur	14-12-2015 to 18-12-2015	TEQIP-II
8	Dr. R. K. Duchaniya	Convener	International Symposia on Frontier of Molecular Science and Technology	MNIT Jaipur	05-12-2015 to 06-12-2015	TEQIP-II
9	Dr. R. K. Duchaniya	Convener	MNIT-USask Workshop On "Characterization Techniques for High Performance Materials"	MNIT Jaipur	25th -29th May, 2015	Self Financed



10	Dr. R. K. Duchaniya	Convener	ASM Materials Camps	MNIT Jaipur	04-08 May 2015	ASM Materials Education Foundation
11	Prof. Ashok Sharma	Professor	Two days' workshop on 'Solidification of Castings: Technical and Scientific Aspects'	MNIT Jaipur	29.03.2016 to 30.03.2016	MNIT
12	Dr. R. K. Duchaniya	Convener	Symposium on "Frontier Materials"	MNIT Jaipur	October 12, 2014	Self Financed
13	Dr. R. K. Duchaniya	Convener	Short term course on "Applications of nanotechnology in Current Scenario"	MNIT Jaipur	22-26 Sept, 2014	Self Financed
14	Dr. R. K. Duchaniya	Convener	Short term course on "Energy & Environment Management in Foundries"	MNIT, Jaipur	10-14 July, 2014	MNIT Jaipur
15	Dr. R. K. Duchaniya	Convener	One day Workshop on "Promoting Techno-Entrepreneurship"	MNIT, Jaipur	19 May, 2014	TEQIP-II
16	Dr. R. K. Duchaniya	Convener	MNIT-DRDO-OFB meet	MNIT, Jaipur	25 April, 2014	MNIT Jaipur
17	Dr. R. K. Duchaniya	Convener	One day Workshop on "Industry-Academia Interaction for Engineering Students"	MNIT, Jaipur	11 Mar., 2014	TEQIP-II
18	Dr. R. K. Duchaniya	Convener	One day Work shop on "Prospects of Engineering students in Automobiles Sector and Expectations of Industry from students"	MNIT, Jaipur	9 Nov., 2013	TEQIP-II
19	Dr. R. K. Duchaniya	Convener	Short term course on Nanotechnology and its application	MNIT, Jaipur	7-11 Oct, 2013	Self Financed
20	Dr. R. K. Duchaniya	Convener	Refresher course on Characterization and Deformation Behavior of Materials for Strategic applications	MNIT, Jaipur	3-5 Oct, 2013	TEQIP-II
21	Dr. R. Singhal	Coordinator	National conference on Advanced Materials and Processing	MNIT Jaipur	Dec. 02-04, 2015	MNIT Jaipur
22	Dr. Vijay N Nadakuduru	Assistant Professor	National Workshop on Thermal Analysis of Materials	MNIT, Jaipur	9 - 10 January 2016	MNIT Jaipur in association with NETZSCH Technologies India Private Limited



DEPARTMENT OF PHYSICS

Keynote addresses by the Faculty in Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Date(s)	Title of Keynote address	Theme	Funding Agency
1	Dr. Kavita Lalwani	International conference on frontier detectors for frontier physics, 13 th Pisa Meeting on advanced detectors	La Biodola, Isola d'Elba (Italy)	24 th May to 30 th May, 2015	Design, Fabrication and Characterization of multi-guard-ring furnished p+n-n+ Silicon Strip Detectors for future HEP experiments	Advanced detectors	DST Delhi/ Young Researcher Grants provided by the Association Frontier Detectors for Frontier Physics
2	Dr. Rahul Singhal	National workshop on Low Energy Ion Beam facility (LEIBF)	IUAC, New Delhi	November 3 - 4, 2015	Study of low energy ion beams on nanocomposite	Low Energy irradiation	Funding by organizers
3	Dr. Rahul Singhal	National Workshop on the Use of Low Energy Ion Beams- 2016	Institute of Physics, Bhubaneswar	November 7-9, 2015	Low energy ion induced effects on FSMA thin films	Low energy characterization facilities	Funding by organizers
4	Dr. K. Sachdev	National Conference on Advanced Materials and Processing	MNIT Jaipur	Dec.3, 2015	Transparent conducting electrodes for Opto-electronic applications	Materials	-
5	Dr. K. Sachdev	Indo-Taiwan International Symposium on Frontiers of Molecular Science & Technology	MNIT Jaipur	Dec. 5, 2015	Transparent conducting electrodes for Opto-electronic applications	Condensed Matter Physics	MNIT/ National University of Taiwan
6	Dr. Kamalendra Awasthi	International Workshop on Advanced Materials Challenges for Alternative Energy Solutions	New Delhi	Dec.18-19,2015	Block copolymer based membranes for hydrogen purifications	Materials	Indo-German workshop/ DST, New Delhi



7	Dr. Rahul Singhal	Future Directions in Ion Beams in Materials Engineering and Characterizations	IUAC, New Delhi	Dec 30, 2015.	Polymer fullerene bulk heterojunction organic solar cell	Ion beams in Materials Science	Funding by organizers
8	Dr. Ashok Kumar	International Conference	SATI, Vidisha, MP	12-14 Feb, 2016	Electron Beam Induced Oscillations in a Nanotube Array and THz Emissions	High Power Coherent Radiation Generation & its nteraction with Matter	CPDA
9	Dr. Rahul Singhal	National workshop on Ion Beam Induced Growth and Engineering of Materials (IBGE M-2016)	Kurukshetra University, Kurukshetra.	March 4-5, 2016	Ion effects on shape memory alloys thin films	Engineering of materials by ion beams	Funding by organizers
10	Dr. Srinivasa Rao Nelamarri	International conference on recent trends in engineering and material sciences (icems-2016)	Jaipur National University, Jaipur	March 17-19, 2016	Growth and modification of semiconductor nanocrystals and dielectric thin films	Dr. Srinivasa Rao Nelamarri	

Participation of Faculty in International/National Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Funding Agency	Date(s)
1	Ashok Kumar	Lasers: Technology and Application in Engineering and Medicine	IITD, New Delhi	TEQIP, IITD	September 11-13, 2015
2	Dr. Venkata Ratnam Kamma Kesa	Workshop on Technical Manuscript Preparation with LaTeX	M.N.I.T Jaipur.		September 19, 2015
3	Dr. Rahul Singhal	18 th International Conference on Radiation Effects in Insulators (REI-18)	MNIT Jaipur		October 26 -31, 2015
4	Kavita Lalwani	18 th International Conference on Radiation Effects in Insulators (REI-18)	Hotel Royal Orchid, Jaipur, Rajasthan, India	MNIT Delhi	October 26 - 31, 2015



5	Kamlendra Awasthi	18 th International Conference on Radiation Effects in Insulators (REI-18)	Jaipur, Rajasthan, India	DST-New Delhi	October 26- 31, 2015
6	Manoj Kumar	18 th International Conference on Radiation Effects in Insulators (REI-18)	Jaipur, Rajasthan, India	DST-New Delhi	October 26- 31, 2015
7	Kamlendra Awasthi	7 th International workshop on Polymer Metal Nanocomposites	Jaipur Rajasthan India	DST-New Delhi	November 2-5, 2015
8	Manoj Kumar	7 th International workshop on Polymer Metal Nanocomposites	Jaipur Rajasthan India	DST-New Delhi	November 2-5, 2015
9	Dr. Venkata Ratnam Kamma Kesa	National conference on Advanced functional Materials	K L University Guntur (Dt) Andhra Pradesh.		November 3-4, 2015
10	Dr. Venkata Ratnam Kamma Kesa	Short Term Course on Advanced applications of Matlab in Engineering	M.N.I.T Jaipur.		November 23-27, 2015
11	Dr. Srinivasa Rao Nelamarri	CONFERENCE ON ADVANCED MATERIALS AND PROCESSING	MNIT Jaipur		December 2-4, 2015
12	Dr. Rahul Singhal	National Conference on Advanced Materials and Processing (CAMP-2015),	MNIT Jaipur		December 2-4, 2015
13	Dr. Srinivasa Rao Nelamarri	8 th National Conference on Thermophysical Properties	MNIT Jaipur		December 14 - 16, 2015
14	Kavita Lalwani	International conference on frontier detectors for frontier physics, 13 th Pisa Meeting on advanced detectors	La Biodola, Isola d'Elba (Italy)	DST/Young Researcher Grants provided by the Association Frontier Detectors for Frontier Physics	May 24-30, 2015

Guest Lectures Organized in the Department

S. No.	Name of Speaker	Designation & Affiliation	Topic of Invited Lecture	Date	Funding Agency
1	Dr. Siddharth Malu	Assoc. Prof. IIT Indore	Probing gas dynamics in Galaxy Cluster mergers	22 June 2015	MNIT Jaipur
2	Prof. Dmitry L. Zagorskiv	Institute of Crystallography of RAS, Moscow, Russia	Polymer track matrixes as the templates for matrix synthesis of nanowires	02 November 2015	MNIT Jaipur

Visit of Faculty Members to other Institutions

S. No.	Name of Faculty	Institution / Organization Visited	Purpose of Visit	Date(s) of Visit	Funding Agency
1.	Dr. K. Sachdev	Manipal Univ., Jaipur	Invited talk	July 8, 2015	-
2	Dr. Srinivasa Rao Nelamarri	University of Saskatchewan, Canada	to be part of Institute delegation for extension of existing MOU and possible collaboration	October 24 to November 2, 2015.	MNIT Jaipur
3	Dr. Srinivasa Rao Nelamarri	1. University of Calgary, Calgary, Canada 2. York University, Toronto, Canada	For exploring possible research collaboration.	October 24 to November 2, 2015	MNIT Jaipur
4	Dr. Rahul Singhal	Desy photon Science lab, Hamburg, Germany	SAXS exp. at PTETRA III	May 5 - 12, 2016	DST New Delhi
5	Dr. Rahul Singhal	Eletrra Synchrotron Lab, Trieste, Italy	MCX beam line high flux photon experiment	May 27 - June 4, 2016	DST & ICTP, Italy

Visitors to the Department

S. No.	Name of the Visitor	Designation	Affiliation	Purpose	Date(s)	Funding Agency
1	Dr. D. Kanjilal	Director,	IUAC New Delhi	Research Lab visit	August 2015	IUAC New Delhi
2	Dr. D. Kabiraj	Scientist	IUAC New Delhi	Research Lab visit	October 2015	IUAC New Delhi
3	Prof. Dmitry L. Zagorskiv	Professor	Institute of Crystallography of RAS, Moscow, Russia	Invited Talk	November 2015	MNIT Jaipur
4	Prof. F. Faupel	Professor	Univ. of Kiel, Germany	Research lab visit	November 2015	-
5	Dr. Thomas Strunkus	Scientist	Univ. of Kiel, Germany	Research lab visit	November 2015	-
6	Dr. Y. K. Mishra	Group Leader	Univ. of Kiel, Germany	Research lab visit	November 2015	-
7	Dr. D. K. Avasthi	Professor	Amity University Noida	Research lab visit	Feb 2016, June 2016	DST Project

**Seminar/Conference/Workshop/Short Term Course organized:**

S No.	Name of the Organizing Secretary	Designation	Title of Event	Place	Date(s)	Funding Agency
1	Dr. K. Sachdev (Convener)	Assoc. Prof.	International (Indo Usask, Canada) Symposium on Characterization Techniques	Jaipur	May, 2015	University of Saskatchewan/ MNIT
2	Dr. K. Sachdev (Co-chair)	Assoc. Prof.	International Conference on Radiation Effects in Insulators	Jaipur	Oct. 26- 31, 2015	International Society of Ion Beam/MNIT
3	Dr. K. Sachdev (Co-convener)	Assoc. Prof.	International School on Simulation of Ion Beams Irradiation and its effects	Jaipur	Oct. 24- 25, 2015	International Society of Ion Beam/MNIT
4	Dr. Kamendra Awasthi (Convener) Dr. Manoj Kumar (Organizing Secretary)	Asst. Prof.	7 th Nanoworkshop on Polymer Metal Nanocomposites	Jaipur	Nov. 2-5, 2015	IUAC/VGU/DRDO
5	Dr. R. Singhal (Secretary)	Asst. Prof.	National Conference on Advanced Materials and Processing (CAMP-2015)	Jaipur	Dec 2-4, 2015	TEQIP
6	Dr. K. Sachdev (Convener)	Assoc. Prof.	8 th National Conference on Thermophysical Properties	Jaipur	Dec. 14- 16, 2015	TPSI/DST/ MNIT
7	Dr. Srinivasa Rao Nelamarri (Co- Convener)	Asst. Prof.	8 th National Conference on Thermophysical Properties	Jaipur	Dec. 14- 16, 2015	TPSI/DST/ MNIT
8	Dr. Venkata Ratnam Kamma Kesa Coordinator	Asst. Prof	Organize a seminar on Raman and his life of National science day	Jaipur	Feb 26, 2016	MNIT Jaipur

**11.6 LIST OF CANDIDATES PURSUING / AWARDED Ph.D. OR M. TECH.
DEPARTMENT OF ARCHITECTURE & PLANNING**

List of Candidates Awarded/Pursuing Ph. D. Degree

S. No.	Name of student	Supervisor	Topic	Status
1.	Fuzail Jawaid	Dr. Satish Pipralia Dr. Ashwani Kumar	Building regulations and resultant urban form	Pursuing
2.	Neeti Garg	Dr. Ashwani Kumar Dr. Satish Pipralia	Sustainability Retrofitting of existing residential buildings	Pursuing
3.	Shweta Chaudhary	Dr. Satish Pipralia	Architectural Pedagogy	Pursuing
4.	Chandni Chowdhary	Dr. Satish Pipralia	Heritage based Sustainable Urban Development	Pursuing

List of Candidates Awarded M. Tech. Degree

S.No.	Name of Student	Supervisor	Title of Thesis	Status
1	Kamal Singh Shekhawat	Prof.Rajeev Shringi	Impact of land uses Specific to Transportation Corridors-A Study of Transportation Corridors in Jaipur	Awarded
2	Kul Vaibhav Sharma	Dr. Ashwani Kumar	Planning for Tourist Infrastructure in Jaisalmer	Awarded
3	Seema Mathur	Mr.Satish Pipralia	Planning Interventions for residential Sector to Minimize Electricity Demand-Case of Sector-4 Indra Gandhi Nagar Extension, Jaipur	Awarded
4	Ankita Gupta	Prof.Rajeev Shringi	Water front Development for the city of Ujjani Predominantly Associated with the Cultural Events And Activities	Awarded
5	Ankit Kashmiri Gupta	Ar. Nand Kumar	Planning Guidelines for Development Industrial Areas in Jaipur	Awarded
6	Achinta Prabhas Boruah	Ar. Pooja Nigam	Planning For Health Facilities in Earthquake Vulnerable Areas-A Case of Guwahati City	Awarded
7	Dizon Genuine John	Ar. Niruti Gupta	City Sanitation Strategies for Kochi Municipal Corporation	Awarded
8	Anita Singh Batar	Dr. Tarush Chandra	Planning Strategies for Efficient Collection and handling of municipal solid waste - A Case Study of jaipur city	Awarded

**List of Candidates Pursuing M. Tech. Degree**

S. No.	Name	Supervisor	Title of Thesis	Status
1	Manisha Sharma	Ar. Rina surana	Planning strategies for the development of Amanishah Nala,Jaipur	Pursuing
2	Dilip kumar Nimesh	Dr. Satish Pipralia	Planing strategies for Redevelopment of Derelict Industrial Area	Pursuing
3	Sakshi Bansal	Dr. Satish Pipralia	An Assesment of residential area compaction in Jaipur City .	Pursuing
4	Mehul Kumar	Ar. Nand Kumar	Assesment of Infrastructure Facilities in residential area of Surat City.	Pursuing
5	Brujbhanu Chandrawanshi	Ar.Kalpna Pandit	Study of transformation of settlement in the periphery of Naya Raipur.	Pursuing
6	Bilal Ahmad	Ar. Pooja Nigam	Planning strategies to improve urban mobility through decongestion in the city of Moradabad	Pursuing
7	Boudh Kuldeep	Prof.Alok Ranjan	Assesment of quality of public open space in Alwar city	Pursuing
8	Gagan Kumar Tanwar	Prof.Rajeev Shringi	Optimsation of Decentralised system of waste water management of faridabad city	Pursuing
9	Raunak Prasad	Prof.Rajeev Shringi	Planning strategies for the redevelopment of slums in lucknow city	Pursuing
10	Inderjeet Panchariya	Ar. Tarush chandra	Impact of textile industries on water resources. A case of pali city.	Pursuing
11	Jogeshwar Singh	Ar. Tarush chandra	Augmentation of infrastructure facilities in Riverfront area near Sangam Allahbad.	Pursuing
12	R Anjani	Ar. Nand Kumar	Impact of urbanization on urban water bodies in Hyderabad city	Pursuing

CENTRE FOR ENERGY & ENVIRONMENT**List of Candidates Pursuing /Awarded Ph. D.**

S. No.	Name of student	Supervisor	Topic	Status
1.	Mr. Anuj Mathur	Dr. Sanjay Mathur, Dr. G.D. Agarwal	Passive heating and cooling, heat transfer, CFD	Ongoing
2	Mr. Kalkhambkar Vaiju	Dr. Rajesh Kumar, Dr. Rohit Bhakar	Energy Storage, Renewable energy sources	Ongoing
3	Mr. Hemant Jain	Dr. Sandeep Srivastava	Study on Water Footprint of the Construction Phase of Multi-storey Residential Concrete Buildings	Ongoing

4	Mr. Mayank Bhatnagar	Prof. Jyotirmay Mathur	Building energy efficiency, Solar thermal, HVAC	Ongoing
5	Mr. Sanjay Jangra	Prof. Jyotirmay Mathur, Dr. Sanjay Mathur	Thermal comfort, Building Energy Conservation, Bio-climatic design, Solar Thermal	Ongoing
6	Mr. Partha Das	Prof. Jyotirmay Mathur, Dr. Rohit Bhakar	Energy System Modelling, Renewable energy Integration, Energy Policy	Ongoing
7	Mr. Prateek Srivastava	Prof. Jyotirmay Mathur	HVAC, Building Energy Efficiency, Combustion	Ongoing
8	Mr. Shashank Vyas	Dr. Rajesh Kumar	Predictive grid analytics for renewable energy integration, islanding behaviour of solar PV inverters, distribution system modelling for smart grids	Ongoing
9	Mr. Shankar Barman	Prof. Jyotirmay Mathur, Dr. Sanjay Mathur	Renewable energy system modelling and product, development, Energy efficiency, SPV application in building, Solar thermal and Thermal energy storage	Ongoing
10	Ms. Priyam Tewari	Dr. Sanjay Mathur, Prof. Jyotirmay Mathur	Passive Heating and Cooling in Buildings, Earth Air Tunnel Heat Exchanger	Ongoing
11	Mr. Shitanshu Sapre	Dr. Kapil Pareek	Hydrogen Energy, Thermal Energy Storage	Ongoing
12	Mr. Avinash Kumar	Dr. Amartya Chowdhury	Antireflection Coating, Solar Photovoltaic	Ongoing
13	Ms. Falti Teotia	Dr. Rohit Bhakar	Demand Side Response mechanisms, Power System Restructuring	Ongoing
14	Ms. Ayushi Chugh	Dr. Rohit Bhakar	Power system security evaluation for low carbon system, short term forecasting for renewable generation	Ongoing

List of Candidates Awarded M. Tech. Degree

S. No.	Name of Student	Supervisor	Title of Thesis	Status
1.	Mr.Naveen	Prof. J.Mathur	Comparison analysis of Centralized and Decentralized control of RTPV systems	2013-15
2.	Mr. Ashok Dhayal	Prof. J.Mathur	Energy performance of an institutional building with rooftop SPV plant integration at MNIT Jaipur	2013-15
3.	Mr. Srikanth Reddy Konda	Dr. Rajesh Kumar	CCS Technology Deployment in Smart Grid with Renewable Energy Penetration	2013-15
4.	Mr. Chunchu Siva Naga Raju	Dr. Rajesh Kumar	Cost and Area reduction of Rooftop Photovoltaic System	2013-15



5.	Mr. Lokesh Kumar Panwar	Dr. Rajesh Kumar	Energy management in smart grid with mobile electric vehicle	2013-15
6.	Mr. Neha Tiple	Dr. Sanjay Mathur	Risk constrained decision making for a wind power producer	2013-15
7.	Ms. Swati Panwar	Dr. Sanjay Mathur	Correlations for PREDICTING TRANSIENT PERFORMANCE of Earth Air Tunnel Heat Exchanger (EATHE)	2013-15
8.	Mr. Lekhraj Kumawat	Dr. Sanjay Mathur	Performance Enhancement of Solar Photovoltaic Module by Active Water Cooling System	2013-15
9.	Ms. Pallavi Ahuja	Dr. Urmila Brighu	Water after Footpring of Electricity Generation and Alternatives for Water Deficit Future	2013-15
10.	Mr. Gaurav Sharma	Dr. Urmila Brighu	Environmental sustainability indicators of SPV plant	2013-15
11.	Mr. Lalchand Meena	Dr. G.D.Agrawal	Study of Rural Energy Options and Planning	2013-15
12.	Mr. Gaurav Gupta	Dr. G.D.Agrawal	Analysis of Achieving grid parity for Solar PV Plant in India	2013-15
13.	Mr. Vikas Ranveer Singh Mahala	Dr. G.D.Agrawal	Study of Direct Absorption Solar Collector using Al ₂ O ₃ - Water nanofluid and SDS Surfactant	2013-15
14.	Mr. Nitin Panwar	Dr. Sandeep Shrivastava	Performance Assessment of solar power projects	2013-15
15.	Mr. Prakash Chandra Sharma	Dr. Sandeep Shrivastava	Plug Load management by using Hybrid Technique for rooftop PV integrated building	2013-15
16.	Mr. S.K. Chouhan	Dr. Sandeep Shrivastava	Barriers and opportunities in implementing green building practices in government organisations	2013-15

DEPARTMENT OF CIVIL ENGINEERING

List of Candidates Awarded/Pursuing Ph. D. Degree

S. No.	Name of student	Supervisor	Topic	Status
1.	Aditya Rana	Pawan Kalla	Sustainable use of kota stone waste in concrete	Pursuing
2.	Pradeep Kumar Gautam	Pawan Kalla Dr. Ajay Singh Jethoo	Gainfull utilization of flaggy limestone (solid and slurry waste)	Pursuing
3.	Harshwardhan Singh	Pawan Kalla	Utilization of fine slurry waste for making building materials	Pursuing

List of Candidates Awarded M. Tech. Degree

S.No.	Name of Student	Supervisor	Title of Thesis	Status
1.	Pravesh Saini	Pawan Kalla	Utilization of kota Stone Slurry for Soil Stabilization	Complete
2.	Pawan Patidar	Pawan Kalla	Experimental Investigation of Kota Stone Waste for Non-Bituminous Course	Complete
3.	Ashish Bishnoi	Pawan Kalla	Use of Kota Stone Waste in Asphaltic Mix BC and DBM	Complete
4.	Arpan Jain	Pawan Kalla	Pedestrian Mobility Enhancement	Complete
5.	Anil Choudhari	Pawan Kalla Dr. Mahaendra Chaudhry	Spatial Trend Analysis of Temperature in Uttar Pradesh for Last Century	Complete

DEPARTMENT OF CHEMICAL ENGINEERING

List of Candidates Awarded/Pursuing Ph.D. Degree

S. No.	Name of Student	Supervisor	Topic	Status
1.	Isha Arya	Dr. S. K. Jana	Analyses of gas-liquid and gas liquid-solid foam-bed reactors.	Awarded
2.	Parul Arora	Prof. Alok Gupta	Study of Batch Emulsion Polymerization of PMMA :Modeling and Control	Awarded
3	Manisha Sharma	Dr. R. K. Vyas and Dr. Kailash Singh	Experimental study and mathematical modeling of reactive adsorption of phenol	Awarded
4	D.R. Jangid (registered in Civil Engineering Department)	Prof. A. B. Gupta and Dr. R. K. Vyas	Performance analysis of activated sludge process and enhancement of energy yield using excess sludge as a flocculent in the primary settling tank - A case study of STP Delawas	Awarded
5	Jitendra Kumar Singh	Prof. S.P. Chaurasia	Studies on Vacuum Membrane Distillation for Desalination	Pursuing
6	Saakshy Agarwal	Dr. Kailash Singh & Prof. A.B. Gupta	Treatment, Recycle and Reuse of Waste Water in Handmade Paper Making	Pursuing
7	Arvind Kumar Agarwal	Dr. Manish Vashishtha	Study of Energy Potential from Agro residue in Rajasthan	Pursuing
8	Shiv Om Meena	Dr. Manish Vashishtha	Experimental and Modeling Studies on Coated Urea	Pursuing
9	Poonam Mondal	Dr. Suja George	Studies on Magnesium amended Hydroxyapatite for defluoridation on water	Pursuing
10	Sruti Chakraborty	Dr. Manish Vashishtha	Studies on Moisture Dynamics in Oil Paper Insulation of Power Transformers	Pursuing



11	Dhiraj Mehta	Dr. Suja George	Studies on Utilisation of Marble Slurry Powder into a value added product- Hydroxyapatite for defluoridation	Pursuing
12	Avanish Kumar	Dr. S.K. Jana	Absorption Accompanied by Chemical Reaction of SO ₂ in Selected Gas-Liquid and Gas-Liquid-Solid System	Pursuing
13	Abhay Dinker	Dr. Madhu Agarwal & Dr. G.D. Agarwal	Storage of Green and Sustainable Energy	Pursuing
14	Avdesh Singh Pundir	Dr. Kailash Singh	Adaptive Control of non -isothermal Packed Bed reactor	Pursuing
15	Sunil Rajoriya	Dr. V.K. Saharan	Development of advanced oxidation techniques based on hydrodynamic cavitation for the degradation of biorefractory pollutants	Pursuing
16	Ashok Singh	Prof. S.P. Chaurasia	Biodiesel production using natural materials as catalyst	Pursuing
17	Ajay Sujan	Dr. R.K. Vyas	Studies on Hydrodynamic and Mass Transfer Parameters in a Bubble Column	Pursuing
18	Jharna Gupta	Dr. Madhu Agarwal & Prof. Ajay Dalai	Production of biodiesel in continuous/helical reactor using nanocatalyst	Pursuing
19	Oza Avadh Rajeshkumar	Prof. S.P. Chaurasia & Prof. Ajay Dalai	Study on Bioethanol Production	Pursuing
20	Rakesh Baghel	Dr. Sushant Upadhyaya & Prof. S.P. Chaurasia	Studies on Vacuum Membrane Distillation	Pursuing
21	Komal Sharma	Dr. R.K. Vyas	Removal of Dyes/salts from water	Pursuing
22	Shivendu	Dr. Suja George	Studies on Textile effluent Treatment	Pursuing
23	Renu	Dr. Madhu Agarwal & Dr. Kailash Singh	Modeling and Experimental Study of Heavy Metal Removal from Textile Effluents	Pursuing
24	Priya Pal	Prof. S.P. Chaurasia	Studies on Bioethanol Production	Pursuing
25	Jitendra Carpenter	Dr. V.K. Saharan	Intensification of physical and chemical processes by cavitation	Pursuing
26	Gaurav Kataria	Dr. Kailash Singh	Development of Adaptive Soft Sensor for Reactive Distillation Column	Pursuing
27	Prakash Kumar	Dr. Suja George	Studies on Calcium Magnesium amended Activated Alumina for defluoridation of drinking water	Pursuing
28	Anusha Sharma	Dr. V.K. Saharan	Synthesis of metal oxide nanoparticles and their application in water treatment and biomedical application	Pursuing

29	Prashant Shrivastava	Dr. S.K. Jana	Synthesis of Precipitated Calcium Carbonate by Carbonation of Calcium Chloride	Pursuing
30	Swati Dubey	Dr. Madhu Agarwal	Defluoridation of water using continuous process	Pursuing
31	Sarita Kalla	Dr. Sushant Upadhyaya & Dr. Kailash Singh	Experimental and theoretical study on vacuum membrane distillation of aqueous solution of ethanol	Pursuing
32	Lokesh Kumar	Dr. S.K. Jana	Desulfurization of Flue Gas using Marble Slurry	Pursuing
33	Sudhanshu Singh	Dr. U.K. Arun Kumar	Reactive Extraction of Carboxylic Acids from Aqueous Solutions in Micro-Reactors-Experimental and Modeling Studies	Pursuing
34	Prerana Sikarwar	Dr. Subbaramaiah V.	Catalytic Desulfurization and Denitrification of Liquid Fuels	Pursuing

List of Candidates Awarded M. Tech. Degree

S.No.	Name of Student	Supervisor	Title of Thesis	Status
1	Leelesh	Dr. Sushant Upadhyaya	To study dimensional stability and mechanical properties of wood plastic composites with virgin and recycled HDPE of different composition	Awarded
2	Meena Prajapati	Dr. Rajeev Kumar Dohare & Dr. Kailash Singh	Experimental study of heat transfer enhancement using CuO/Water nanofluid	Awarded
3	Kritika Mathur	Dr. R.K. Vyas & Dr. Kailash Singh	Modification and characterization of granular activated Carbon for reactive adsorption of Resorcinol	Awarded
4	Wasim Khan	Dr. Prabhat Pandit	Desalination of water by electro-dialysis	Awarded
5	Satyender Kumar	Mr. Shiv Om Meena	Study on Urea coating	Awarded
6	Swati Dubey	Dr. Sushant Upadhyaya	Treatment of textile wastewater containing Methylene blue dye by vacuum membrane distillation and adsorption	Awarded
7	Aseem M	Dr. U.K. Arun Kumar	Hydrodynamics and simulation studies of liquid-liquid slug flow in micro-capillaries	Awarded
8	Khusboo	Dr. S.P. Chaurasia	Comparison of PTFE and PVDF membranes for separation of Ethanol-Water using vacuum membrane distillation	Awarded
9	Khusboo Chaudhary	Dr. Madhu Agarwal	Experimental optimization of extraction conditions of phenolic compounds from flaxseed, pea peel, Aloe Vera peel	Awarded



10	Priti Kumari	Dr. Madhu Agarwal	Synthesis, characterization and application of Carbon nanotubes	Awarded
11	Nidhi Kumari	Dr. S.K. Jana	Arsenic removal from aqueous solution by adsorption on activated Alumina and Magnetite	Awarded
12	Parimala S	Dr.Suja George	Synthesis of nano Alumina for defluoridation of drinking Water	Awarded
13	Kuldeep	Dr. Virendra Kumar Saharan	Study of cavity dynamics in a hydrodynamic cavitation reactor	Awarded

DEPARTMENT OF CHEMISTRY

List of Candidates Pursuing /Awarded Ph. D.

S. No.	Name of student	Supervisor	Topic	Status
1	Ms Kavita Verma (Student ID: 2012RCY9010)	Dr. K. D. Gupta	Hybrid disinfection of sewage using chlorine and UV-ozone in series to optimize the process	Completed
2	Sukhbeer Kumari (Student ID: 2010RCY101)	Dr. Jyoti Joshi	Development of green chemical approaches for synthesis of biologically active aza heterocycles	Completed
3	Shuchi Maheshwari (Student ID: 2010RCY102)	Dr. Jyoti Joshi	Synthesis and characterisation of some medicinally important spiro and condensed heterocycles through green approach	Completed
4	Yogesh Duchaniya (Student ID: 2011RCY7154)	Dr. Jyoti Joshi	Synthesis and studies of metallated derivatives of poly donor ligands	Ongoing
5	Tanuja Kumari (Student Id: 2012RCY9525)	Dr. Jyoti Joshi	Co-ordinate complexes with functional chelating ligands having Nitrogen and or Oxygen donor atoms	Ongoing
6	Ravi Kant Yadav (Student ID: 2016RCY9045)	Dr. Jyoti Joshi	Medicinal chemistry with green approach	Ongoing
7	Ms Yogita Madan (Student ID: 2009RCY103)	Dr. Ragini Gupta	Catalysis and nanocatalysis for green organic transformations	Awarded Ph. D. Nov 2015
8	Ms Anshu Jain (Student ID: 2011RCY7152)	Dr. Ragini Gupta	Synthesis of some new Heterocycle Based Anion Receptors	Ongoing
9	Ms Yachana Jain (Student ID: 2013RCY9069)	Dr. Ragini Gupta	Bioconjugates and Click Chemistry and its Applications in Drug Discovery	Joined Ph D in July, 2013
10	Ms Mithlesh Kumari (Student ID: 2013RCY9536)	Dr. Ragini Gupta	Synthesis of heterocyclic compounds via catalysis and organocatalysis	Joined in Jan 2014

11	Mr. Munsaf Ali (Student ID: 2013RCY9538)	Dr. Raj Kumar Joshi	Metal Carbonyl asserted one pot synthesis of unusual hetrocyclic compounds	Ongoing (Dec, 2013-Present)
12	Mr. Avinash Kumar Srivastava (Student ID: 2014RCY9056)	Dr. Raj Kumar Joshi	Synthesis and chracterization of silylene based metal carbonyl complexes, future catalysis for silylne transfer reaction and organic transformations	Ongoing (July, 2014-Present)
13	Mr. Naveen Satrawala (Student ID: 2014RCY9550)	Dr. Raj Kumar Joshi	Strategically development of metal silylene complexes potential catalyst for organic transformation reactions and silylene transfer reactions	Ongoing (Dec, 2014-Present)
14	Vashundhra Sharma (Student ID: 2012RCY9526)	Dr. Sandeep Chaudhary	Investigation of new carbon-carbon bond forming reactions: Application to the synthesis and SAR study of biologically active natural product.	Ongoing (Jan, 2013-Present)
15	Ritu Sharma (Student ID: 2013RCY9527)	Dr. Sandeep Chaudhary	Studies towards development of novel C-C Bond Forming Reactions: Synthesis, Chemistry and Biological evaluation	Ongoing (Jan, 2014-Present)
16	Mohit K. Tiwari (Student ID: 2014RCY9059)	Dr. Sandeep Chaudhary	Study of Potent Antimalarial Agents: Synthesis, Chemistry and Antimalarial Assessment	Ongoing (July, 2014-Present)
17	Bharti Rajesh Kumar Shyamlal (Student ID: 2014RCY9059)	Dr. Sandeep Chaudhary	C-H Bond Activation Reactions: Investigation of New C-C Coupling Reactions and It's Application to the Synthesis of Bioactive Heterocycles	Ongoing (July, 2014-Present)
18	Lalit Yadav (Student ID: 2014RCY9548)	Dr. Sandeep Chaudhary	Studies on Bio-active Heterocycles: Synthesis, Chemistry and Development of New Synthetic Strategies	Ongoing (Jan, 2015- Present)
19	Mahesh Paliwal (Student ID: 2013RCY9535)	Dr. Sumanta Kumar Meher	Metal-metal oxide based hetro nano-composites for electrochemical energy storage and green technology applications	Ongoing (Dec, 2013- Present)
20	Anupriya Singh (Student ID: 2013RCY9571)	Dr. Sumit Kumar Sonkar	Water soluble carbon nano-particles: Synthesis and Applications	Ongoing (Dec, 2013- Present)
21	Anshu Bhati (Student ID: 2013RCY9573)	Dr. Sumit Kumar Sonkar	Doped nano-carbon: Synthesis and Applications	Ongoing (Dec, 2013- Present)
22	Guture (Student ID: 2015RCY9058)	Dr. Sumit Kumar Sonkar	Hyper-branched N and P doped carbon nano-particles in imaging and sensing applications	Ongoing (July, 2015-Present)

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING****List of candidates pursuing /awarded Ph.D.**

S.No.	Name of Student	Supervisor	Title of Ph.D. Thesis	Status
1.	Mukesh Gupta	Dr. M.C. Govil Dr. Girdhari Singh	Detection of Security Vulnerabilities using Dynamic Analysis and Machine Learning Techniques	Submitted
2.	Rajat Goel	Dr. M.C. Govil Dr. Girdhari Singh	Security in Requirement Engineering and Design	Pursuing
3.	Mohit Kumar Gokhroo	Dr. M.C. Govil Dr. E.S. Pilli	Fault Tolerance in Cloud Computing	Pursuing
4.	Vimal Kumar Soni	Dr. M.C. Govil Dr. D. Goplani	Distributed Representation of Words through Deep Learning	Pursuing
5.	Kunwar Pal	Dr. M.C. Govil Dr. Mustaq Ahmed	Quality Aware Adaptive Live Video Streaming in Peer to Peer Network	Pursuing
6.	Anita Chaudhary	Dr. M.C. Govil Dr. Girdhari Singh	QoS Aware Energy-Efficient Resource Provisioning and Scheduling in Cloud Computing Environment	Pursuing
7.	Anand Kumar Mishra	Dr. M.C. Govil Dr. E.S. Pilli	Design and Implementation of Forensic Framework for Cloud Computing Environment	Pursuing
8.	Gajendra Singh Shekhawat	Dr. M.C. Govil Dr. D.Goplani	Design of Cross-Layer Real-Time Data Transmission protocol for Underwater Acoustic Sensor Networks (UWASN)	Pursuing
9.	Ved Mitra (PT)	Dr. M.C. Govil Dr. Girdhari Singh	Improved Parallel Architecture for Optimizing Performance in SoCs	Pursuing
10.	Maheep Singh (PT)	Dr. M.C. Govil Dr. E.S. Pilli	Salient Object Detection	Pursuing
11.	Vinesh Jain (PT)	Dr. M.C. Govil	Issues in Internet of Things	Pursuing
12.	Parvez Faruki	Dr. M. S. Gaur Dr. Vijay Laxmi	Techniques for Analysis and Detection of Android Malware	Awarded
13.	Anil Saini	Dr. M. S. Gaur Dr. Vijay Laxmi	Attacks and Mitigations in Web Browsers	Awarded
14.	Rimpy	Dr. M. S. Gaur Dr. Vijay Laxmi	Resilient Routing Implementation for 2-D Mesh Network on Chip	Awarded
15.	Renu Kumawat	Dr. Vineet Sahula Dr. M. S. Gaur	Modeling and Synthesis of Molecular Memory	Awarded
16.	Ramesh Babu Battula	Dr. M. S. Gaur Dr. Dinesh Gopalani	Cognitive Radio Wireless Mesh Networks MAC and Routing Protocols	Submitted
17.	Shweta Bahndari	Dr. M. S. Gaur Dr. Akka Zemmari, France	Static Analysis for Information Leakage in Android Apps*	Pursuing
18.	Vineeta Jain	Dr. M. S. Gaur	Android system information leakage through content providers*	Pursuing

19.	Ashish Sharma	Dr. M. S. Gaur Dr. Lava Bhargava	Reliability in NoCs*	Pursuing
20.	Gaurav Somani	Dr. M. S. Gaur Dr. Dheeraj Sanghi, IITK	DDoS Attacks in Cloud Computing: Detection and Mitigation	Pursuing
21.	Shweta Saharan	Dr. M. S. Gaur	Cloud Security*	Pursuing
22.	Smita Naval	Dr. Vijay Laxmi Dr. R. Muttukrishnan, UK	Behavior Based Dynamic Malware Detection Techniques	Awarded
23.	Manoj Kumar	Dr. Vijay Laxmi Dr. M. S. Gaur	Design of Highly Adaptive and Fault Tolerant Routing for Networks on Chip	Submitted
24.	Sonal Yadav	Dr. Vijay Laxmi Dr. M. S. Gaur	Architectural Exploration in Multi NoCs*	Pursuing
25.	Gaurav Singal	Dr. Vijay Laxmi Dr. M. S. Gaur	Multicast Routing in Wireless MANETs*	Pursuing
26.	B.V.Budhadev	Dr. Vijay Laxmi Dr. M. S. Gaur	Native Code injection and vulnerabilities in Android*	Pursuing
27.	Anugrah Jain	Dr. Vijay Laxmi Dr. Meenakshi Tripathi	Dynamic Reconfiguration in NoC*	Pursuing
28.	Lat Sab	Dr.M. S. Gaur Dr. Vijay Laxmi	Cyber Physical System*	Pursuing
29.	Jay Dave K.	Dr. Vijay Laxmi	Information System Security*	Pursuing
30.	Dr. Vipin Pal	Dr R.P. Yadav Dr. Girdhari Singh	Framework for Energy-Efficient Clustering Approach for Wireless Sensor Networks	Awarded
31.	Tanvi Chawla	Dr. Girdhari Singh Dr. E.S. Pilli	Big Data and Semantic Web	Pursuing
32.	Prakash Choudhary	Dr. Neeta Nain	An Annotated Urdu Corpus of Handwritten Text Image and Benchmarking of Corpus	Awarded
33.	Tapas Badal	Dr. Neeta Nain Dr. Mushtaq Ahmed	Non Chronological Video Synopsis and Indexing	Pursuing
34.	Maninder Singh Nehra	Dr. Neeta Nain Dr. Mushtaq Ahmed	Devnagari Handwritten Text Corpus Development and Part of Speech Tagging	Pursuing
35.	Maroti Deshmukh	Dr. Neeta Nain Dr. Mushtaq Ahmed	Multi Image Secure Sharing Schemes	Pursuing
36.	Sonu Lamba	Dr. Neeta Nain	Crowd Analysis and Abnormality Detection	Pursuing
37.	Riti Kushwaha	Dr. Neeta Nain	Footprint Biometric Authentication	Pursuing
38.	Harendra Chahar	Dr. Neeta Nain	Person Detection in Crowd	Pursuing
39.	Sandeep Kumar Gupta	Dr. Neeta Nain	Face Detection Over Age	Pursuing



40.	Ankit Vidhyarati	Dr. Namita Mittal	Clustering and Classification of Malignant Tumors in Brain MR Image using Machine Learning	Pursuing
41.	Abhishek Kilak	Dr. Namita Mittal	Emotion Detaction in Facial Images	Pursuing
42.	Lokesh Kr Sharma	Dr. Namita Mittal	Evidence Gathering and Language Alignment in Question Answering	Pursuing
43.	Chandra Prakash	Dr. Namita Mittal, Dr. Rajesh Kumar (Dept. of Electrical Engg.)	Machine Learning Techniques for Vision Base Human Gait Analysis	Pursuing
44.	Vijay Kr Sharma	Dr. Namita Mittal	Query Translation Disambiguation Approaches in Cross Language Information Retrieval	Pursuing
45.	Mithlesh Arya	Dr. Namita Mittal, Dr. Girdhari Singh	Cervical Cancer Detection Using Segmentation on Pap smear Images	Pursuing
46.	Yogesh Kumar Meena	Dr. Dinesh Gopalani	Extractive Automatic Text Summarization Based on Voting and Filtering Techniques	Awarded
47.	Ramesh Babu Battula	Dr. Dinesh Gopalani Dr. M. S. Gaur	Path Aware and Spectrum Aware Routing Protocol for Cognitive Radio Based Mesh Networks	Pursuing
48.	Vimal Kumar Soni	Dr. Dinesh Gopalani Dr. M.C. Govil	Distributed Representation of Words through Deep Learning	Pursuing
49.	Manish Jain	Dr. Dinesh Gopalani	Automatic Aspect Creator for Testing and Debugging Software Programs	Pursuing
50.	Ritu Sharma	Dr. Dinesh Gopalani Dr. Yogesh Kumar Meena	A Topic in Recommendation System	Pursuing
51.	Ravindra Kumar Saini	Dr. Mushtaq Ahmed	Fault Tolerant Routing Algorithms for 3D NoC	Pursuing
52.	Diwakar Gautam	Dr. Mushtaq Ahmed	Early Stage Detection And Diagnosis Of Carcinoma	Pursuing
53.	Anurag Sharma	Dr. Mushtaq Ahmed	Multi Objective Design Space Exploration In High Level Synthesis	Pursuing
54.	Ankur Gupta	Dr. Meenakshi Tripathi	Security in IoT	Pursuing
55.	Jyoti Gajrani	Dr. Meenakshi Tripathi Dr. M. S. Gaur	Dynamic Resolution of Reflection in Android for Improved Security*	Pursuing
56.	Manisha Samanta	Dr. Yogesh Kumar Meena	Real time event detection and prediction using Social Sensors.	Pursuing
57.	Preeti Mishra	Dr. Pilli Emmanuel Shubhakar	Efficient Techniques for Intrusion Detection in Cloud Environment	Pursuing
58.	Avani Sharma	Dr. Pilli Emmanuel Shubhakar	Managing Robust and Scalable Trust in Internet of Things	Pursuing
59.	Chauhan Sameer singh Ashok singh	Dr. Pilli Emmanuel Shubhakar	An Efficient Broker based Framework for Federated Cloud	Pursuing

* Tentative topics with work in progress

List of candidates awarded M. Tech. Degree:

S. No.	Name of Student	Supervisor	Title of M.Tech. Thesis	Status
1.	Akhilesh Kumar Gautam	Dr. M.C. Govil	Energy Aware Scheduling Approaches for Real Time Task in Cloud	Awarded
2.	Nitin Kumar	Dr. M.C. Govil	Improved Virtual Machine Migration Approaches in Cloud Environment	Awarded
3.	Ankit Gangwal	Dr. M. S. Gaur	Efficient SVC Video Streaming over SDN	Awarded
4.	Rekha	Dr. M. S. Gaur	Semantic Aware Android Malware Analysis	Awarded
5.	Megha Gupta	Dr. Vijay Laxmi	Detection of DDoS Attacks in SDN	Awarded
6.	M.Srikanth	Dr. Vijay Laxmi	Android Malicious App Analysis Techniques	Awarded
7.	Girish Sharma	Dr. Vijay Laxmi	Reverse Engineering Android Apksmalli to Java	Awarded
8.	Virendra Kumar Meghwal	Dr. Girdhari Singh	Automated test case generation using Activity diagram, Use –Case diagram and State Machine diagram	Awarded
9.	Om veer	Dr. Girdhari Singh	Prioritizing code for coverage with advanced detection of infeasible paths	Awarded
10.	Shalini Yadav	Dr. Neeta Nain	Face Detection with Profile Variations and Cartoon Characters	Awarded
11.	Mohit Kumar Singh	Dr. Neeta Nain Mr. Dinesh Kumar Tyagi	Unobtrusive Silhouette Extraction with Shadow Removal	Awarded
12.	Vishakha Sharma	Dr. Neeta Nain	Moving Object Detection	Awarded
13.	Somya Gupta	Dr. Namita Mittal	RAKE-PMI automated keyphrase extraction	Awarded
14.	Candy Lalrempuii	Dr. Namita Mittal	Sentiment Classification of Crisis Related Tweets	Awarded
15.	Gaurav	Dr. Namita Mittal	Gait Based General Recognition using Machine Learning techniques	Pursuing
16.	Vijay Kumar Agarwal	Dr. Dinesh Gopalani	Text Classification using Multinomial Naïve Bayes	Awarded



17.	Monika Sharma	Dr. Dinesh Gopalani Dr. Meenakshi Tripathi	An Approach for Predicting Related Words for the Hindi Language	Awarded
18.	Lipsy Garg	Dr. Mushtaq Ahmed	Malware Classification Using Hybrid Features	Awarded
19.	Daitule Omkar Vilas	Dr. Mushtaq Ahmed	Analyzing Large Web Log Files Using Map Reduce Distributed Cluster Environment	Awarded
20.	Anjali Saini	Dr. Mushtaq Ahmed	Video Surveillance	Pursuing
21.	Mr. Mintu Biswas	Meenakshi Tripathi	Energy Efficient Grid Based Clustering in Heterogenous Wireless Sensor Networks	Awarded
22.	Mr. Ramesh Chotiya	Meenakshi Tripathi	Two phase localization in Wireless Sensor Networks	Awarded
23.	Peeyush Deoliya	Dr. Yogesh Kumar Meena	Sentence Rejection Based Extractive Automatic Text Summarization	Awarded
24.	Vineet Nigam	Dr. Yogesh Kumar Meena	Evolutionary Approaches for Extractive Automatic Text Summarization	Awarded
25.	Madhuri Gupta	Dr. Pilli Emmanuel Shubhakar	Blocking Based Entity Resolution in Large Bibliographic Data using Map Reduce	Awarded
26.	Dolly Mittal	Dr. Pilli Emmanuel Shubhakar	Big Data Analytics	Pursuing
27.	Kunal Solanki	Dr. Pilli Emmanuel Shubhakar	Big Data Analytics	Pursuing
28.	Sunita Jangir	Dr. Pilli Emmanuel Shubhakar	Cloud Security	Pursuing
29.	Lt. Ankesh Bundela	Mr. Ramesh babu Battula	DEFUSE: DETECTION Mechanism For USER Emulation attacks in cognitive radio networks	Awarded
30.	Mr. Ritesh Kumar Ravi	Dr. A. P. Mazumdar	On energy efficiency of Ethernet Switches	Awarded
31.	Ms. Anamika Satrawala	Dr. A. P. Mazumdar	Meliorating Trust Propagation in Internet of Things	Awarded
32.	Lt Cdr Manu Arora	Dr. A. P. Mazumdar	Moving Target Defence with IP Randomization	Awarded
33.	Neha Naglot	Dinesh Kumar Tyagi	Design Issues and Implementaion of QoS aware Routing in WDM Optical Networks	Awarded

DEPARTMENT OF ELECTRICAL ENGINEERING

List of candidates awarded M. Tech. Degree:

S No.	Name of Student	Supervisors	Topic of Thesis	Status
1.	Saurabh Jaiswal	Praveen Kumar Agarwal	Solution of Economic Load Dispatch using Improved Particle Swarm Optimization Technique	Completed
2.	Gaurav Kansal	Vinod Sahai Pareek	Solution of Economic Load Dispatch considering Valve Point Loading using Bat Algorithm	Completed
3.	Hari Prakash Meena	Hemant Meena	Economic Load Dispatch using Firefly Algorithm	Completed
4.	Sanwar Mal Yadav	Dr Vikas Gupta	Dynamic Evolution Controller for Single-Phase and Three-Phase Inverters	Completed
5.	Anil Baitha	Dr Nitin Gupta	Improvement of Power Quality using Hybrid Active Power Filter in Distribution System	Completed
6.	Binshad T A	Dr Vijay Kumar K.	Modified Power Electronics Converter Topology for Photovoltaic Water Pumping System	Completed
7.	Sreenu Sreekumar	Dr Rajesh Kumar	An Approach Towards Short Term Load Forecasting for Smart Grid Framework	Completed
8.	Akshay Rana	Nikita Jhajharia	Optimal allocation of DG for Real Power Loss Minimization using Biogeography based Optimization Technique	Completed
9.	Ritesh Kumar Jha	Dr Anil Swarnkar	Dynamic Economic Load Dispatch of Micro-grid by Harmony Search Algorithm	Completed
10.	Parth Saxena	Dr Nikhil Gupta	Multi-Objective DG allocation in Distribution Systems using Improved Teaching Learning based Optimization	Completed
11.	Ram Swaroop	Dr. Harpal Tiwari	Assessment among Single and Three-Phase 28-Echelon Cascaded Multi-Inverter with 3H-Bridge Inverter Modules	Completed
12.	Akanksha Shukla	Dr Kusum Verma	Voltage Control in Distribution Networks with Distributed Generation	Completed
13.	Naresh K. Jangir	Dr Nikhil Gupta	Optimal Allocation of DGs in the Presence of Network Reconfiguration using Particle Swarm Optimization	Completed



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

List of Candidates Awarded/Pursuing Ph. D. Degree

S. No.	Name of Student	Supervisor	Topic	Status
1.	Sanyog Rawat	Prof. K.K. Sharma	Design of Microstrip design	Completed
2.	Hemant Sharma	Prof. K.K. Sharma	ECG signal Processing	On going
3.	Tanushree Sharma	Prof. K.K. Sharma	ECG signal Processing	On going
4.	Muquaddar Ali	Prof. K.K. Sharma Prof. R.P. Yadav	Design of Microstrip design	On going
5.	Varun Setia	Prof. K.K. Sharma	Design of Microstrip design	On going
6.	Nidhi Saxena	Prof. K.K. Sharma	Image fusion	On going
7.	Vivek Updhayay	Dr. Amit M Joshi	Study of Compressive Sensing application on Non Stationary Music Signals and Images	On going
8.	Suresh Balotia	Dr. Amit M Joshi	Design of 6T SRAM Design	On going
9.	Nitesh Kumar	Dr. Ravi Kumar Maddila, Dr. Manish Mathew	Growth and characterization of green LED for under water visible light communication	Pursuing
10.	Soma Kumawat	Dr. Ravi Kumar Maddila	Design and analysis of codes for SAC-OCDMA systems	Pursuing
11.	Divyanshu Gaur	Dr. Ravi Kumar Maddila	Design and Analysis of point to point Free Space Optical Communication Links	Pursuing
12.	Teena Sharma	Dr. Ravi Kumar Maddila	Design and analysis of codes for SAC-OCDMA systems	Pursuing
13.	Ashish Kumar Ghunawat	Dr. Ghanshyam Singh	Non linearity enhancements using Photonic Crystals (Faculty candidate)	Ongoing
14.	Mr. Saurav Sahu	Dr. Ghanshyam Singh	Photonic bio-sensors	Ongoing
15.	Mr. Sandeep Vyas	Dr. Ghanshyam Singh and Dr. Manish Tiwari	Non linear optics and supercontinuum generation in PCFs	Ongoing
16.	Ms. Shruti Kalra	Dr. Ghanshyam Singh and Dr. Manish Tiwari	Investigating interaction of light and highly nonlinear matter in micro-structured optical fibre for modifying nonlinearities	Ongoing
17.	Mrs. Monika Mathur	Dr. Ghanshyam Singh and Dr. S. K. Bhatnagar	Evaluation of Microstrip Antenna using concepts of Di-electric Engineering	Ongoing
18.	Mr. Upendra Choudhary	Dr. Ghanshyam Singh and Dr. Ritu Sharma	Nanophotonics (DeitY Sponsored candidate)	Ongoing
19.	Nikhil Deep Gupta	Dr Vijay Janyani	GaAs Solar Cells based on Photonic Crystals	Ongoing



20.	Amit Garg	Dr Vijay Janyani	Energy Efficient Optical Networks	Ongoing
21.	Usha Choudhary	Dr Vijay Janyani	OFDM in Optical Communication and nonlinear impairments	Ongoing
22.	Abhinav Bhatnagar	Dr Vijay Janyani	Efficiency enhancement in thin film solar cells	Ongoing
23.	Ashish Sharma	Dr Vijay Janyani, Prof R P Yadav	MEMS based acoustic sensors	Ongoing
24.	Shanky Saxena	Ritu Sharma	Design and fabrication of cantilever type MEMS based energy harvester	Pursuing
25.	Anup Sharma	Ritu Sharma	Synthesis and Characterization of CNTS for Solar Cell application	Pursuing
26.	Lalit Dusad	Ritu Sharma	Synthesis and Characterization of Si nanowires for photovoltaic application	Pursuing
27.	Girraj Sharma	Ritu Sharma	Cooperative spectrum sensing for cognitive radio	Pursuing
28.	Komal Swami	Ritu Sharma	Design of CNFETS based digital logic family for low power consumption	Pursuing
29.	Upendra Chaudhary	Ritu Sharma	Synthesis and Characterization of CNTS for Biosensor application	Pursuing
30.	Vinay Kanungo	Dr. Mohammad Salim	Planar Antenna Array Synthesis using GA modified Taylor Synthesis and its Mapping in Optical Domain	Pursuing
31.	Rukhsar Zafar	Dr. Mohammad Salim	Analysis of Slow light and Sensing Characteristics of MIM plasmonic Wave guide using Fano Resonance	Pursuing
32.	Praveen Jain	Dr. Mohammad Salim	Transparent Conduction Oxide Thin Films for Solar Cell and Optoelectronics Devise Applications	Pursuing
33.	Arti K. Sharma	Dr. Mohammad Salim; Prof. K.C. Jain	Design and Analysis of Efficient error control codes for Fifth Generation of Mobile Communication	Pursuing
34.	Asif Sayeed Khan	Dr. Mohammad Salim; Prof. V. Sinha	Design and Analysis of Efficient error control codes for deep space communication	Pursuing
35.	Sudheer Kaishari	Dr. Mohammad Salim; Prof. (Retd.) S. G. Modani	Performance of Fractional Fourier Transform & Its Evolution in Image Cryptography	Pursuing



36.	Bhoopesh Kumar Kumawat	Prof. R. P. Yadav; Dr. Mohammad Salim	-	Pursuing
37.	Ms. Seema Yardi	Prof. D. Boolchandani	A Novel Technique For Using Polymers As Optical Interconnects and as Sensors For Biological Recognition	Submitted
38.	Mr. Tarun Varma	Prof. D. Boolchandani	Fabrication and characterization of Zinc Oxide thin film for optoelectronics device applications	Ongoing
39.	Mr. Sanjay Kumar Singh	Prof. D. Boolchandani	Performance Evaluation of Tuning Methods of PID Controller based on soft computing techniques	Ongoing
40.	Ms. Sapna Khandelwal	Prof. D. Boolchandani	Reliability aware SVM based Surrogate models for analog and Digital circuits.	Ongoing
41.	Mr. Vimal Agarwal	Prof. D. Boolchandani	Design and Development of inertial Sensor	Ongoing
42.	Mr. Raju Patel	Prof. D. Boolchandani	Design and Development of MEMS Based Ultra Violet Light Sensor	Ongoing
43.	Mr. Tangudu Bharat Kumar	Prof. D. Boolchandani	Design of Signal conditioning circuits for Vibration sensors	Ongoing
44.	Mr. Arun Kishor Johar	Prof. D. Boolchandani	Interface circuits for On Chip MEMS Based Sensors and Actuators	Ongoing
45.	Ms. Renu Kumawat	Prof. V. Sahula	Nanoscale reliable memory architectures	Completed
46.	Mr. Lokesh Garg	Prof. V. Sahula	Efficient and Accurate Surrogate Models of Leakage in CMOS Gated Circuits	Completed
47.	Lintu Rajan	Dr. C. Perisamy	Design and Fabrication of Nano Structured ZnO Thin Film Based Devices for Gas Sensing Applications	Ongoing
48.	Shashikant Sharma	Dr. C. Perisamy	Design and Fabrication and Characterization of Nanostructured ZnO Thin-Film Based Optoelectronic Device	Ongoing
49.	Nikita Sharma	Dr. C. Perisamy	Design and Development of AlGaIn/GaN High Electron Mobility Transistors (HEMTs) for Biosensing Applications	Ongoing

List of Candidates Awarded M. Tech. Degree

S. No.	Name of Student	Supervisor	Title of Thesis	Status
1.	Anubhav Sharma	Prof. K.K. Sharma	Classification of EEG signals into seizure and nonseizure category using HVD	Completed
2.	Gaurav Choudhary	Prof. K.K. Sharma	Image fusion using HVD	Completed
3.	Vivek Kumar Garg	Prof. K.K. Sharma	Classification of different human emotions using EMD and HVD	Completed
4.	Bhupendra Singh Bhadoria	Dr.Amit M. Joshi	COMPARATIVE STUDY OF COMPRESSIVE SENSING FOR SIGNAL PROCESSING	Completed
5.	Seema Goswami	Dr. Ravi Kumar Maddila	Construction and Analysis of 2-D Optical Orthogonal Codes for Optical Code Division Multiple Access Communication Systems	Awarded
6.	Prashant Joshi	Dr. Ravi Kumar Maddila	Design, Analysis & Prototype Assembly of Visible Light Communication System	Awarded
7.	Anoop Singh	Dr. Ghanshyam Singh	Design and Analysis DR1/PMMA Based Asymmetry Mach-Zehnder Modulator (AMZM).	To be completed by June 2016
8.	Deepak Singh	Dr. Ghanshyam Singh	Mitigation Of Raman Cross Talk in Coexisted GPON & XG-PON Network.	To be completed by June 2016
9.	Abhishek Godbole	Dr. Ghanshyam Singh	Microring Resonator Based All Optical Logic Gates and Combinational Circuits.	To be completed by June 2016
10.	Manish K. Salunkhe	Dr. Ghanshyam Singh	Ultra Compact Optical Switch Design Using Phase Change Material.	To be completed by June 2016
11.	Ms. Purva Bansal	Dr. Ghanshyam Singh and Dr. KamalendraAwasthi	Study of Optical Properties of Rare Earth Doped ZnO	To be completed by June 2016
12.	ARCHANA SHAKTAWAT	Vijay Janyani	New Design of Borosilicate Photonic Crystal Fiber for Flattened Dispersion	Completed
13.	SARABJEET SINGH	Vijay Janyani	Real Time Monitoring System for Passive Optical Networks based on ASE Noise Reflection Spectrum with Fiber Bragg Grating.	Completed
14.	DEEPAK SONI	Vijay Janyani	Implementation of All Optical Reversible Multiplexer Using SOA based Mach-Zehnder Interferometer	Completed



15.	Anukul Sharma	Vijay Janyani	Improved Performance Analysis of Gigabit Passive Optical Networks	Ongoing
16.	Chandan Kumar Sharma	Vijay Janyani	Sleep Mode For Energy Saving Passive Optical Networks (PONS)	Ongoing
17.	ManishaVerma	Vijay Janyani	Design and Simulation of Optical Waveguide for Electro-Optic Modulator	Ongoing
18.	RakeshRaushan	Vijay Janyani	An Energy and Cost Efficient WDM/ OFDM PON System: Design and Demonstration	Ongoing
19.	Amresh Ashok Madavi	Vijay Janyani	Cost- Effective Introduction and Energy- Efficient Operation of Long-Reach WDM/TDM PON System	Ongoing
20.	TYAGI ANSUL PRABHAT	Dr. Mohammad Salim	Bionic hand for trans radial amputees	Pursuing
21.	BHAWANA KUMARI	Dr. Mohammad Salim	Analysis of non-ionized radiation level from base station transceiver	Pursuing
22.	VINAY SWAMI	Dr. Mohammad Salim	RF energy Harvester	Pursuing
23.	AKANKSHA SINGH	Dr. Mohammad Salim	Cognitive Radio	Pursuing
24.	PREMCHAND PATEL	Dr. Mohammad Salim	Effect of radiation on humans and method to reduce	Pursuing
25.	MANISHA KUMAWAT	Dr. Mohammad Salim	Reconfigurable filtenna and MIMO in cognitive radio application	Pursuing
26.	Puneet Sharma	Dr. Mohammad Salim	Design of LDPC Code for High Speed Wireless LAN (IEEE 802.11n)	Completed
27.	Gayatri Kansotia	Dr. Mohammad Salim	Performance Improvement using Modified Block S-Random (MBSR) Interleaver and Modified Matched S-Random (MMSR) Interleaver in Turbo Codes.	Completed
28.	Atul Bhardwaj	Prof. D. Boolchandani	Realization of Triboelectric Energy Harvester.	Completed
29.	Rajat Kumar	Prof. D. Boolchandani	Design of SAW device based on high aspect ratio Nano Pillars.	Completed
30.	Arun Kishor Johar	Prof. D. Boolchandani	Development Of An Optical Biosensor For Detection Of Impurity in Water.	Completed
31.	Vishwaraj Naik Parrikar	Prof. D. Boolchandani	Design of MEMS based Piezoresistive Wind Speed Sensor.	Completed
32.	Arjun S. Chauhan	Prof. V. Sahula	Probabilistic Graph models & applications to image reconstruction/segmentation	Completed
33.	Sonia Garg	Prof. V. Sahula	Low power Embedded Systems; Security aspects	Completed

DEPARTMENT OF HUMANITIES & SOCIAL STUDIES

List of Candidates Awarded/Pursuing Ph. D. Degree

S. No.	Name of student	Supervisor	Topic	Status
1.	Manvendra Singh	Dr. Vibhuti Singh Shekhawat	The Drift of Xenophobic and Jingoistic Aspirations in North-East India: A Study in the Context of Socio-Political Syndrome	Pursuing
2.	Priyanka Jain	Dr. Vibhuti Singh Shekhawat	A Study of the Impact of Transnational Migration on Identities of Chakmas in Northeast and India's Foreign Policy	Pursuing
3.	GinishaDevani	Dr. Vibhuti Singh Shekhawat	Union State Relations.	Pursuing
4.	Kanupriya	Dr Preeti Bhatt	Dramatic Technique in the Major Plays of Girish Karnad	Submitted
5.	Kalpna Vijay	Dr Preeti Bhatt	The Impact of Displacement on the Formation of New Values in the Novels of Diasporic Indian Women Writers	Awarded
6.	Pulak Avinashi	Dr Preeti Bhatt	Research Topic to be finalized	Pursuing
7.	ShvetaTripathi	Dr. NupurTandon	Environment, Self and Identity in the Select Novels of Willa Cather	Pursuing
8.	Ambika Singh	Dr. NupurTandon	Research Topic to be finalized	Pursuing
9.	Manisha Choudhary	Dr. Dipti Sharma	An empirical analysis of relationship between employees' competencies and quality of work life	Awarded
10.	Shikha Singh	Dr. Dipti Sharma	Empirical Investigation of India's Trade With EU and ASEAN	Pursuing
11.	BoolaChoudhary	Dr. Dipti Sharma	Socio-Economic Assessment Study of Decentralized Rural Electrification based on Solar Energy in Rajasthan	Pursuing

**DEPARTMENT OF MATHEMATICS****List of Candidates Awarded/Pursuing Ph. D. Degree**

S. No.	Name of student	Supervisor	Topic	Status
1.	Ms Meena Kumari Gurjar	Prof Kantesh Gupta	Investigation of Certain New Aspects of Special Functions ,General Class of Polynomials and Fractional Differ Integral Operators	Awarded
2.	Pradeep Kumar	Dr Santosh Chaudhary	Modeling of MHD flow through Porous and Non Porous Boundaries	Awarded
3	Kavita Khandelwal	Dr Vatsala Mathur	Fractional Approach of Fluid Dynamics	Submitted
4	Sheikh Mohammed Faisal	Dr Sanjay Bhattar	A Study of Differential and Integral Calculus of Arbitrary Order and New GeneralisedMittag-Leffler Function with Applications	Submitted
5	Rakesh Kumar Bohra	Dr Sanjay Bhattar	A study of unified Fractional Integral formula, pathway Fractional integral operator, Mellin-Barnes Type Integral	Pursuing
6	Devendra Singh	Prof K C Jain	Study of Information theoretic Based measures and their properties	Pursuing
7	Prafull Chabra	Prof K C Jain	A Study of Inequalities on new generalized information divergence measure and their Application	Pursuing
8	Manish Kr. Bansal	Prof Rashmi Jain	A Study of Mellin-Barnes type integral, general polynomials and integral operator of arbitrary orders of single and multiple variables with applications	Pursuing
9	Priyanka Harjule	Prof Rashmi Jain	On recent advances in Special functions and fractional calculus with Applications	Pursuing



10	Amit Kr. Mathur	Dr Sanjay Bhattar	Investigation of Certain New Aspects of Generalized operators of arbitrary order and their applications in Geometric function theory	Pursuing
11	Mahesh Puri Goswami	Dr Ritu Agarwal	Bicomplex Integral Transforms and applications	Pursuing
12	Sonal Jain	Dr Ritu Agarwal	A study of some advances in fractional calculus and special function with modelling and application	Pursuing
13	Mohan Kumar Chaudhary	Dr Santosh Chaudhary	Computational Study of MHD Boundary layer Flow problems	Pursuing
14	Mahaveer Prasad Yadav	Dr Ritu Agarwal	Applications of Fractional Calculus	Pursuing
15	Kanika	Dr Santosh Chaudhary	Numerical Treatment for Magneto hydrodynamic Boundary Layer Flows	Pursuing
16	Nidhi Jolly	Prof Rashmi Jain	Special function and fractional calculus with its applications	Pursuing

DEPARTMENT OF MECHANICAL ENGINEERING

List of Candidates Awarded/Pursuing Ph. D. Degree

S. No.	Name of student	Supervisor	Topic	Status
1.	Alok Manas Dubey	Dr. G D Agrawal	Performance Analysis of CO2 Cascade Refrigeration System	Completed
2.	Amit Aherwar	Dr. Amit Singh Dr.Amar patinak	Design, Development and tribology analysis of Total Hip Joint Replacement for Human Body Structure	Ongoing
3.	Anil Kumar Sharma	Prof. G S Dangayach Prof. A. Bhardwaj	Cluster Development	Ongoing
4.	Anil Sharma	Prof. A. Bhardwaj	Cluster Development	Ongoing
5.	Ankur Pareek	Professor A.P.S. Rathore Professor Rakesh Jain	Development of an integrated framework for aligning new product development and supply chain management activities.	Completed



6.	Anmesh Kumar Srivastava	Prof. S.L. Soni And Prof. Dilip Sharma	Experimental Studies on Performance, Emission and Combustion Characteristics of an Acetylene Operated Single Cylinder Stationary C.I. Engine	Ongoing
7.	Anoj Meena	Dr. Amar Patnaik Dr. Harlal S. Mali	Design, Development and Performance Assessment of Dental Wear Application	Ongoing
8.	Anuj Mathur	Dr. Sanjay Mathur Dr. G D Agrawal	Energy and environmental aspects of buildings	Ongoing
9.	Anurag Dixit	Dr. Harlal S Mali; Dr. RK Mishra	Experimental and Numerical Investigation on the Mechanical Behaviour of Woven Fabric Carbon/Epoxy Composite.	Completed
10.	Ashish Datta	Prof. A.P.S .Rathore	Ergonomic Evaluation of passanger Cars	Ongoing
11.	Ashish Nayyar	Prof. Dilip Sharma And Prof. S.L. Soni	Studies on Stationary C.I. engine operated on Oxygenate – Diesel blends	ongoing
12.	Ashish Dutta	Professor A.P.S. Rathore Professor Awadhesh Bhardwaj	Ergonomics (Broad Area)	Ongoing
13.	Ashiwani Kumar	Dr. Amar Patnaik Prof. I. K. Bhat	Wear and Fatigue Analysis of Bevel Gear in Differential of Automobile	Ongoing
14.	Avanish Singh Chauhan	Prof. A.P.S. Rathore Dr. Gunjan Soni	An Integrated Approach Towards Risk Management in New Product Development Process	Ongoing
15.	Avinash Panwar	Prof. A.P.S. Rathore Prof. Rakesh Jain	Lean Manufacturing in Indian Process Industry – An Empirical Study	Completed
16.	Bhargav Prajwal Pathri	Dr. Harlal S. Mali, Prof. Ravindra Nagar	Study of Morphology and Physical, Mechanical and Thermal Properties of Various Ceramics With a View to Optimize Their Cutting and Machining Parameters	In Progress
17.	Bhawna Mathur	Prof. G.S. Dangayach	Performance Measurement in Service	Ongoing
18.	Chandrakumar Badole	Professor A.P.S. Rathore Professor Rakesh Jain Dr. Bimal Nepal	Development of an integrated framework of RFID based supply chain of perishable products.	Submitted

19.	Chitresh Nayak	Dr. Amit Singh & Dr. Himanshu Chaudhary	Rapid Tooling	Ongoing
20.	Deepak Kumar	Prof. P. N. Rao	Optimization of Plastic Injection Molding	Ongoing
21.	Deepanshu Arora	Prof. Gopal Agarwal	Hybrid Meta-Heuristic approaches for flow shop scheduling	Ongoing
22.	Deepesh Sonar	Prof. S.L. Soni And Prof. Dilip Sharma	“Experimental studies and Simulation on Alternative fuel operated Micro-Trigeneration system for residential applications”	Completed
23.	Deeraj Joshi	Dr. M.L.Mittal	Project Scheduling with resource flexibility	Ongoing
24.	Dheeraj Kishore Johar	Prof. Dilip Sharma And Prof. S.L. Soni	Experimental Studies on Thermal Storage Integrated Micro-Trigeneration System	Ongoing
25.	Doraj Kamal Jamua	Prof. Dilip Sharma And Prof. S.L. Soni	Studies on Ethanol Fuelled C.I. Engine Operated micro-CHP System	Submitted
26.	Gaurav Kumar Badhotiya	Dr. Gunjan Soni Dr. M.L.Mittal	Multi plant scheduling	Ongoing
27.	Hansini Premi	Dr. Monica Sharma	Green Marketing Strategies	Ongoing
28.	Hemant Kumar Gupta	Dr. G D Agrawal & Prof. J. Mathur	Experimental study of flat plate solar collector using nano-fluids	Completed
29.	Jaikishan	Dr. H S Mali	Design and Development of Low Cost One Way Abrasive Flow Machine (AFM) Utilizing Pulp and Fullers Earth Based Media.	Ongoing
30.	Jayant Purohit	Dr. M.L.Mittal	Mass Customization	Ongoing
31.	Jitender Singh	Prof. Dilip Sharma And Prof. M.P.Poonia	Design and Development of Solar assisted Rapid Milk Cooler	ongoing
32.	K K Kataria	Prof. A. Bhardwaj Dr.Gunjan Soni	Ergonomics	Ongoing
33.	Kailash Chaudhary	Dr. Himanshu Chaudhary	Dynamic Balancing of Mechanisms	Ongoing
34.	Kunj Bihari Rana	Dr. G D Agrawal & Prof. J. Mathur	Heat Transfer Characteristics of Nano fluids in Sub-cooled Flow Boiling	Completed
35.	Lokesh Vijayavargy	Prof. Gopal Agarwal	The study of green supply chain management practices: A Case of Indian Industry	Awarded in 2014



36.	M. L. Meena	Prof. A. Bhardwaj	Ergonomics	Awarded in 2014
37.	Mahendra Singh Shekhawat	Dr. Harlal S Mali; Prof. A.P.S Rathore	Experimental Investigation on Hybrid Electro-Discharge Centreless Grinding (EDCG) Processes.	In Progress
38.	Manish Jindal	Prof. A. Bhardwaj	Technoentrepreneurship	Ongoing
39.	Manish Kumar	Dr. M.L.Mittal Dr. Gunjan Soni	Multi project scheduling	Ongoing
40.	Manmohan Siddh	Dr. Gunjan Soni and Prof. Rakesh Jain	An Empirical Study of Agri-Fresh Food Supply Chain	Ongoing
41.	Manoj Kumar Sain	Dr.M. L. Meena	Some Issues on Ergonomics in SSI	Ongoing
42.	Manoj Pawar	Dr.Amar Patinak Dr.Ravindra Nagar	Wear and Fracture Characteristics of Stone Dust Filled Polymer Composite for Wind Turbine Blade	Ongoing
43.	Mr. Devi Singh Kumani	Dr. Himanshu Chaudhary	Constraint forces in Manipulators	Ongoing
44.	Mr. Harsh Dixit	Dr. T. C. Gupta	Not yet finalized (Enrolled in Jan 2015)	Ongoing
45.	Mr. Lalit Guglani	Dr. T. C. Gupta	Analysis and modifications of four bar knee linkage prosthetics	Ongoing
46.	Mr. Manoj Gupta	Dr. T. C. Gupta	Dynamic analysis of motorcycle-rider system	Ongoing
47.	Mr. Mayank Bhatnagar	Prof. Jyotirmay Mathur	Development of reference building models for India	Ongoing
48.	Mr. Partha Das	Prof. Jyotirmay Mathur Dr. Sanjay Mathur	Long term analysis of the role of energy storage technologies in future energy scenarios of Indian power sector for increased renewable integration	Ongoing
49.	Mr. Prateek Srivastava	Prof. Jyotirmay Mathur	Optimizing design and performance parameters of chilled water based air conditioning system	Ongoing
50.	Mr. Sanjay Jangra	Prof. Jyotirmay Mathur Dr. Sanjay Mathur	Thermal comfort	Ongoing
51.	Mr. Shankar Barman	Prof. Jyotirmay Mathur	BIPV system design	Ongoing
52.	Mr. Sumit Sharma	Prof. Jyotirmay Mathur Dr. Sanjay Mathur	Building integrated photovoltaic system	Ongoing
53.	Neeraj Saini	Prof. Gopal Agarwal	Indian Railways capacity challenges	Ongoing



54.	Niketa Jain	Professor A.P.S. Rathore, Professor Rakesh Jain Professor O.P.Yadav	A multi-objective optimization of Reliability Based Robust Design by capturing Degradation of Quality characteristics of a Multi-Component System	Ongoing
55.	Omji Shukla	Dr. Gunjan Soni and Dr. Rajesh Kumar	Agent Based Modelling of Lean Manufacturing System	Ongoing
56.	Parvendra Tyagi	Prof. Gopal Agarwal	Supply chain integration among BRICKS countries through ship routing optimization by using Meta –Heuristic techniques	Ongoing
57.	Peeyush Vats	Dr. Gunjan Soni Prof. APS Rathore	Multi-objective Inventory Optimization	Ongoing
58.	Pradeep Gupta	Prof. Dilip Sharma And Prof. S.L. Soni	Development of CI engine operated micro trigeneration for power, heating and space cooling	ongoing
59.	Prem Singh	Dr. Himanshu Chaudhary	Balancing Agricultural Equipment	Ongoing
60.	Rahul Goyal	Prof. Dilip Sharma And Prof. S.L. Soni	Development of CI engine operated micro trigeneration for power, heating and space cooling	Completed
61.	Rahul Jain	Dr.M. L. Meena	Some Issues on Ergonomics in Agriculture	In Progress
62.	Rajesh Chedwal	Prof. J. Mathur &Dr. G D Agrawal	Energy analysis of Jaipur city for GHG mitigation	On going
63.	Ramanpreet Singh	Dr. Himanshu Chaudhary & Dr. Amit Singh	Design and dynamics of Knee joint	Ongoing
64.	Ramkaran Yadav	Prof. Rakesh Jain and Dr. M.L. Mittal	Lean Project Management	In Progress
65.	Rohit Mishra	Dr. G D Agrawal Prof. J. Mathur	Experimental Study and Performance Analysis of Earth-Air –Tunnel Heat Exchanger (EATHE) for Heating and Cooling in Hybrid Modes	Completed
66.	Rupali Baghel	Dr. Harlal S Mali, Prof S.K. Biswas	Experimental Investigation on Machining of Ceramic Materials	In Progress
67.	Sagar Kumar	Dr. Amit Singh	Design and Development of Direct and Indirect Tooling through Reverse Engineering	Ongoing



68.	Sanjay Gaur	Prof. A. Bhardwaj	FMEA analysis of HR functions	Completed
69.	Shiv Raj Dahka	Prof. J. Mathur & Dr. G D Agrawal	Quantification of Thermal Adaptation in conditioned and unconditioned buildings of composite climate	Completed
70.	Shiv Ranjan	Dr. Amar Patnaik Prof. I. K. Bhat	Design, Development and Performance Assesment of Dental Wear Application	Ongoing
71.	Sumit Gupta	Dr. Amit Singh Prof. P. N. Rao	Sustainable Manufacturing	Ongoing
72.	Sundeep Kumar	Monica Sharma	Study and analysis of mass welfare schemes	Ongoing
73.	Surya Prakash	Dr. Gunjan Soni and Prof. A.P.S. Rathore	Robust Supply Chain Design and Optimization under Risks and Uncertainties	Submitted
74.	Swati Gangwar	Dr. Amar Patnaik Prof. I. K. Bhat	Design and Fabrication of Marrble Dust Filled Metal Alloy Composite for Single Row Deep Groove Ball Bearing	Ongoing
75.	Umardaraj	Prof. Rakesh Jain	Modeling of multi component system at early design stage	In Progress
76.	Umesh Chaturvedi	Dr. Monica Sharma	Sustainable Manufacturing in Pharma industry	Ongoing
77.	Unaune Deepak Rajendra	Dr. Harlal S. Mali	Fabrication of Micro-Structures and Their Characterization in Inconel-718	Thesis Submitted
78.	Vikas Bansal	Dr. G D Agrawal & Prof. J. Mathur	Performance Analysis of Earth Air Tunnel Heat Exchanger (EATHE) –A CFD based study with Evaporative Cooling	Completed
79.	Vikas Gautam	Dr. Amar Patnaik Prof. I. K. Bhat	Design, Development of Multilayer Coating on Marble Dust Filled Metal Matrix Composites for Turbine blade Application	Ongoing
80.	Vikas Kuksal	Dr. Amar Patnaik Prof. I. K. Bhat	Thermochemical Wear Analysis of Coated Metal Composite for Gun Barrel	Ongoing
81.	Vimal Pathak	Dr. Amit Singh	Investigation On Accuracy Issues in Reverse Engineering and Additive Manufacturing	Ongoing
82.	Ajit Kumar	Dr. Gunjan Soni		Ongoing



83.	Ashish Nayyar	Prof. Dilip Sharma & Prof. S.L.Soni	Studies on the Effect of Fuel Additives on the Engine Performance	Ongoing
84.	Hemant Raj Singh	Prof. Dilip Sharma & Prof. S.L.Soni	Application of Renewable Energy in Rural Area	Ongoing
85.	Nisha Goyal	Professor A. P. S. Rathore Dr. Satish Kumar	Behavioral Finance	Ongoing
86.	Akhileshwar Singh	Dr Dinesh Kumar	Molecular Simulation studies on effects of cross-linking, functionalization and interface on the mechanical properties of nanofiller reinforced composite	Ongoing
87.	Ashish Srivastava	Dr Dinesh Kumar	Multiscale modeling and postbuckling behaviour of nanacomposite plate	Ongoing
88.	Kanishk Sharma	Dr Dinesh Kumar	Modeling & Simulation for Stability and Failure Analysis of Functionally Graded Plate Under Thermo-mechanical Loading.	Ongoing
89.	Anubhav Kumar	Dr Dinesh Kumar	An investigation on vibration of stiffened FGM shells under thermal environment	Ongoing

List of Candidates Awarded M. Tech. Degree

S. No.	Name of student	Supervisor	Title of Thesis	Completed / Ongoing
1.	Shobhit Gunsai	Dr. G D Agrawal	CFD Based Performance Analysis of Solar Air Heater with Artificial Roughness	Completed
3.	Dharmendra Kumar Sainy	Dr. G D Agrawal	Performance Analysis of Earth Air Tunnel Heat Exchanger	Completed
4.	Bharat Tanwar	Dr. G D Agrawal	Design, Development and Performance study of single stage fin type of solar air heater	Completed
5.	Sudhir Kumar Yadav	Dr. G D Agrawal	Energy efficiency improvement in copper and brass industry in Rewari Hariyana	Completed
6.	Sumit Kumar	Dr. Himanshu Chaudhary	Dynamic Analysis and Flywheel Design of Single Cylinder Engines	Completed
7.	Ankur Hatwal	Dr. Himanshu Chaudhary	Dynamic Balancing of Inline Engines	Completed



8.	Vivek Kumar	Dr. Gunjan Soni	A teaching learning based optimization approach for assembly line balancing problem	Completed
9.	Suresh Sharma	Dr. Gunjan Soni	Investigation of supply chain quality issues in Agri-fresh produce supply chain	Completed
10.	Shubhender Singh	Dr. Gunjan Soni	Risk Management for e-Commerce Supply Chain Network: A Robust Optimization Approach	Completed
11.	Pradeep Kumar	Dr. M.L. Meena	Product Improvement using DMAIC in Automobile parts Manufacturing Company	Completed
12.	Ramesh Karwal	Dr. M.L. Mittal	Supplier Selection using Fuzzy AHP and Fuzzy TOPSIS Method	Completed
13.	Virendra Kumar Verma	Dr. M.L. Mittal	Development of Multi-Agent System for Runway Sequencing and Scheduling Problem	Completed
14.	Dharmendra Kumar Kumawat	Mr. Mukesh Kumar	Assessment of Achieving Sustainability in Indian Automobile Industry through Lean Manufacturing	Completed
15.	Kapil Jain	Prof. A.P.S. Rathore	Forward-Reverse Supply Chain Network Design and Planning with Embedded Risk of Facility and Supply Disruptions	Completed
16.	ChetanAgrawal	Prof. A.P.S. Rathore	Parameter Optimization of Multi-Component system based on HQLF Model	Completed
17.	Dipayan Das	Prof. Awadhesh Bhardwaj	Identifying the predictors of comfort in using hand tool (Hammer)	Completed
18.	Rishi Ram	Prof. Awadhesh Bhardwaj	Evaluation of risks of musculoskeletal disorders on automobile assembly lines	Completed
19.	Mohit Mendirata	Prof. Awadhesh Bhardwaj	Comparison of different ergonomic risk assessment tools in a repetitive high risk metal works industry	Completed
20.	Sudipto Kayal	Prof. G. Agarwal	Optimization of the total cost incurred in warranty policy	Completed



21.	Vishal	Prof. G. Agarwal	A conjoint analysis of user preference for home theatre system design	Completed
22.	Sulabh Nalwaya	Prof. G.S. Dangayach	Assessment of Environmental Performance Measures in Process Sector Industries	Completed
23.	Mohit Vats	Prof. G.S. Dangayach	Development of an Interpretive Structure Model for Drivers in Environmental Conscious Manufacturing in Textile Industry	Completed
24.	Rao Pratik	Prof. G.S. Dangayach	Life Cycle Analysis of Single Row Deep Groove Ball Bearing	Completed
25.	Areesha Nafees	Prof. Rakesh Jain	An accelerated degradation test planning using inverse gaussian process for reliability prediction	Completed
26.	Gaurav Kumar	Prof. Rakesh Jain	Development of a probabilistic damage accumulation model for a reliability prediction	Completed
27.	Ayush Mathur	Prof. Rakesh Jain	Optimization of storage and stacking operations in container terminals	Completed
28.	Uttam Kumar Meena	Dr. Amar Patnaik	Fabrication and wear analysis of particulate filled glass ionomer cement mixed dental composites	Completed
29.	Vinod Kumar Gautam	Dr. Amar Patnaik	DEVELOPMENT, CHARACTERIZATION AND SLURRY ABRASION RESPONSE OF VINYLESTER BASED POLYMER COMPOSITES	Completed
30.	Abhishek Pandey	Dr. Amar Patnaik	Development and wear analysis of flyash/graphite filled copper alloy composite for bearing application	Completed
31.	SHIVAM MISHRA	Dr. Amar Patnaik	Mechanical and tribological characterization of particulate filled Al7075 alloy hybrid composites for piston ring material	Completed



32.	Rohit Choudhary	Dr. Harlal S. Mali	An experimental investigation to evaluate abrasion wear characteristics and study the effect of micro cracks on the mechanical properties of various marbles types of Rajasthan region	Completed
33.	Amit Mishra	Dr. Harlal S. Mali	Experimental Investigation to Determine the Effect of Tool Coatings on EDM Performance	Completed
34.	Vijay Pratap Singh	Dr. Harlal S. Mali	Experimental Investigation and Parametric Optimization of Die Steel, Inconel-718, and Nimonic 80-A Super Alloy in Powder Mixed Abrasive Electric Discharge Grinding Process.	Completed
35.	Umesh Kumar Sahu	Dr. Harlal S. Mali	DESIGN AND FABRICATION OF A NEW SOLAR HARNESSING SYSTEM FOR COOKING PURPOSE	Completed
36.	Arun Kumar	Sh. Amit Pancharya	MACHINING PERFORMANCE OF AISI P20 STEEL WITH GRAPHITE AND TUNGSTEN BASED ELECTRODE ON EDM MACHINE	Completed
37.	Pawan Kumar	Sh. Amit Pancharya	Comparative study on EDM of flame hardened and pure copper electrode while machining D2 Steel	Completed
38.	Prabhat Kumar	Sh. Mukesh Kumar	Processing, Characterization and Evolution of Epoxy and E-Glass fibre composite filled with Zinc Sulphide for automobile body panel application	Completed
39.	Yogesh Kumar	Sh. Mukesh Kumar	Analysis of Aluminium Alloy (AA6061) matrix composite reinforced by Boron carbide and Molybdenum disulfide	Completed
40.	Rana Veer Pratap Singh	Prof. Dilip Sharma	Performance and Emission Study of A Turbocharged Stationary C.I. Engine	Completed



41.	Pushkar Chandra	Prof. Dilip Sharma	Regeneration of diesel Particulate Filter Installed on a Mahindra 4 Cylinder 2.1 Liter Diesel Engine.	Completed
42.	Govind Meena	Prof. Dilip Sharma	Optimization of Exhaust Gas Recirculation Valve Opening in Four Cylinder C.I. Engine	Completed
43.	Abhishek Lasariya	Prof. Dilip Sharma	Simulation studies on energy efficiency in Rajasthan Canal SE office	Completed
44.	Mr. Aningi Mokhalingam	Dr Dinesh Kumar	Elastic Properties of Graphene Reinforced Nanocomposites using Molecular Dynamics	Completed
45.	Mr. Gite Anil Babasaheb	Dr Dinesh Kumar	Buckling and Postbuckling Analysis of FGM Plate under Non-uniform In-plane Compressive Loads	Completed

DEPARTMENT OF MANAGEMENT STUDIES

List of Candidates Awarded/Pursuing Ph. D. Degree

S. No.	Name of student	Supervisor	Topic	Status
1.	KHUSHBOO JAIN (ID: 2008RBM102)	Dr. Satish Kumar	HRD Climate in NHRM: A Case Study of Rajasthan	Awarded
2.	MANISHA CHOUDHARY (ID: 2010RBM202)	Dr. Dipti Sharma	An Empirical Study of Relationship between the Employees Competencies and Quality of Work Life	Awarded
3.	SHRADHA GUPTA (ID: 2012RBM9534)	Dr. Monica Sharma	An Empirical Investigation of Lean Management in Indian Services.	Pursuing
4.	HARSH PRATAP SINGH (ID: 2012RBM9535)	Dr. Satish Kumar	Working capital Management Practices: A study of Small and Medium Enterprise (SMEs) in Rajasthan	Pursuing
5.	PURNIMA RAO (ID: 2012RBM9536)	Dr. Satish Kumar	Financing Preferences and Determinants of Capital Structure- A Study on Small and Medium Enterprises	Pursuing
6.	ANIL KUMAR AGRAWAL (ID: 2012RBM9537)	Dr. Monica Sharma	Mobile Number Portability: An Empirical Investigations of Switching Intentions in Rajasthan	Pursuing



7.	NISHA GOYAL (ID: 2013RBM9009)	Dr. Satish Kumar	Financial Literacy and Behavioural Biases: A Study of Indian Investors	Pursuing
8.	MANISH JINDAL (ID: 2013RBM9502)	Dr. Awadhesh Bhardwaj	Study of Institutional Promoted Entrepreneurship Development in India	Pursuing
9.	SUNDEEP KUMAR (ID: 2013RBM9512)	Dr. Monica Sharma	Management of Large Scale Public Welfare Scheme: Study and Critical Analysis of MGNREGA in Rajasthan	Pursuing
10.	MAYANKA SINGH CHHONKER (ID: 2013RBM9544)	Dr. Deepak Verma	m-Commerce Adoption in Tourism and Hospitality: Understanding Influence of Customer Typology based on Uses Gratification and Risk Perception	Pursuing
11.	SWETA TOMAR (ID: 2014RBM9013)	Dr. Satish Kumar	Influence of Psychological, Socio-Demographic Factors and Financial Literacy on Retirement Financial	Pursuing
12.	HANSINI PREMI (ID: 2014RBM9019)	Dr. Monica Sharma	An Empirical Investigation of Buying Behaviour of Green Consumer in India	Pursuing
13.	UMESH KUMAR CHATURVEDI (ID: 2014RBM9016)	Dr. Monica Sharma	Sustainability and Use of LCA for Pharmaceutical Sector	Pursuing
14.	ADITI AGARWAL (ID: 2014RBM9021)	Dr. Monica Sharma	<i>-not finalized-</i>	Pursuing

DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING

List of Candidates Awarded/Pursuing Ph. D. Degree

S. No.	Name of student	Supervisor	Topic	Status
1	Pramod Kumar Sain	Prof A K Bhargava	Preparation and studies on polycarbonate matrix nanocomposite for electronic applications	Completed
2	Akshay Kumar	Prof M K Banerjee	Development of technology of production conducting sheath on soft magnetic material	In progress
3	Avnish Kumar	Prof A Sharma	Study of metallurgical aspects of nitrogen bearing austenitic stainless steels for under-water application	In progress
4	Anil Kumar	Dr Vinod Kumar	Synthesis and characterization of PANI based nanocomposite for electron housing	In progress
5	Robin Gupta	Prof A Sharma	Study of microstructure and mechanical properties of Al alloy cast through RSFC rapid slurry formation process	In progress

6	Uma Gupta	Dr V K Sharma	Development of IF steel with improved properties	In progress
7	Vatsala Chaturvedi	Prof U Pandel & Prof A Sharma	A study on the effect of vibrations during solidification on AZ91 magnesium alloy	In progress
8	Rahul Sen	Prof U Pandel	Study of reduction kinetics of mill scale by low grade coal	In progress
9	Sachin Rathi	Prof A Sharma	Minimization of hot tears and porosity in Al alloys	In progress
10	Ornov Maulik	Dr Vinod Kumar	Development and characterization of light weight high entropy alloy	In progress
11	Arun Kumar	Dr V K Sharma	Development of high strength low alloy steel with improved properties	In progress
12	Sri Kant	Dr R K Duchaniya	Quenching behavior of bottom flooded molten pool	In progress
13	Nimu Chand Reger	Prof A K Bhargava and Dr. Vamsi Krishna Balla	Influence of various dopants on mechanical, biological and metallurgical properties of plasma sprayed hydroxyapatite on Ti-6Al-4V implant	In progress
14	Versha Goyal	Prof P R Soni	Development of Al nanocomposite for automotive application	In progress
15	Anurag Hamilton	Prof A Sharma	Characterization and erosion study of carbide based thermal spray coating on steel	In progress
16	Priyanka Meena	Dr V K Sharma	Development of Mg based nanocomposite with improved properties	In progress
17	Ravindra Singh	Prof S K Biswas	Electrical and mechanical properties of ceramic nanocomposite containing SWCNT	In progress
18	Vandana Kaler	Dr R K Duchaniya	Studies of thermal and mechanical properties of nano-TiO ₂ doped PVA nanocomposite	In progress
19	Devesh Kumar	Dr Vinod Kumar	Effect of tungsten on oxidation behavior of AlCuCrFeMnW high entropy alloy	In progress
20	Saurav Kumar	Dr Vinod Kumar	Tribological study of HEA	In progress
21	Ankit Goyal	Prof P R Soni	Nano-crystalline silicon solar cell fabrication using powder metallurgy	In progress
22	Mukesh Kumar Chowrasia	Prof M K Banerjee	Additive design for ultra high strength steel with toughness	In progress
23	Nitika Kundan	Prof P R Soni	Synthesis and characterization of Al based in-situ laminated composite for aerospace industry	In progress
24	Vibha Uttam	Dr R K Duchaniya	Tribology studies of nanocrystalline composite coating deposited by electroless coating process	In progress
25	Sandeep Kumar	Dr A K Pradhan	Synthesis and characterization Al matrix composites	In progress
26	Ravindra Singh Shekhawat	Dr Vijay N N	Friction stir welding for automobile and aerospace application	In progress



Details of Candidates Awarded M. Tech. MME/Steel Technology Degree

S.No.	Name of Student	Supervisor	Title of Thesis	Status
1.	Upendra Singh Sengar	Prof M K Banerjee	Effect of pre-straining and aging vanadium microalloyed steel	Completed
2	Prasanth S	Prof M K Banerjee	Effect of copper precipitation on the mechanical properties of low carbon Cu-B steel for automotive application	Completed
3	P Kranthi Kumar	Prof M K Banerjee	Microstructure evolution and precipitation studies on copper bearing duplex steels	Completed
4	Punit Kumar Trivedi	Prof M K Banerjee	Study of Bake hardening kinetics of vanadium microalloyed low carbon steel	Completed
5	Mukesh Kumar Chowrsiaya	Prof U Pandel	Simulation of pulverized coal combustion in blast furnace	Completed
6	Atul Panwar	Prof U Pandel	An investigation on direct reduction on lean iron ore and mill scale at different parameters	Completed
7	Rampariya Yogesh Thakarshibhai	Mr Krishna Kumar	Lean iron ore reduction by DRI method using carbothermic reaction with charcoal as reducing agent and parameters affecting reducibility	Completed
8	Atul Singh Bagri	Dr Y V S S Prasad & Dr Vinod Kumar	Effect of Mg-Si on magnetic property of FeNiCo alloy	Completed
9	Chandra Prakash	Dr R K Duchaniya	Characterization studies of TiO ₂ doped PVA nanocomposite	Completed
10	Mukesh Suthar	Prof P R Soni	Study the effects of ceramic nanoparticles addition in aluminium paint used for automobiles	Completed
11	Suresh Kumar Solanki	Dr Vinod Kumar	Synthesis, characterization and COMSOL study of Fe-Co-Ni-(Mn-Si) _x based alloy powders	Completed
12	Deepak	Dr Vijay N N	Synthesis and characterization of shape memory alloy powders of Cu-25%wt.Zn-5%wt.Al composition using high energy ball milling	Completed
13	Manoj Kumar	Dr N C Upadhyay & Dr Vijay N N	Study of boronizing treatment for EN8 and EN24 steel and comparison of properties	Completed
14	Chandraketu Singh	Dr Munan Mandira	Development of aluminium alloy sacrificial anodes reinforced with zinc oxide	Completed
15	Gaurav Purohit	Dr Munan Mandira	Effect of addition of Zn ²⁺ ions on the electrochemical behavior of Al-Zn-Sn sacrificial anodes in 3.5% NaCl	Completed

16	Sunil Kumar Jatav	Mr Krishna Kumar, Mr Sandeep Sarkar & Prof M K Banerjee	Experimental and Numerical studies on fluid flow analysis of continuous casting mold under the application of magnetic field	Completed
17	Santosh	Prof A K Bhargava	Preparation and characterization of silicon nitride filled polycarbonate nanocomposites	Completed
18	Uday Kumar	Mr Krishna Kumar	Mechanical Property of HSLA steel at elevated temperature	Completed
19	Bhagiratha Sahu	Prof M K Banerjee	Study the kinetics involved in direct reduction of lean iron ore with charcoal and detecting the optimum parameters	Completed
20	Anurag Singh	Prof M K Banerjee & Mr Vikas Singh	A wear model study of the effect of single, double phase flows with nozzle clogging on bias flow	Completed
21	Manish Kushwaha	Dr A K Pradhan	Tailoring properties of EN31 high carbon steel for demanding applications	Completed
22	Harish Kumar Tiwari	Dr N C Upadhyay	Effect of heat treatment on wear properties of low alloy AISI 4340 steel	Completed
23	Pushpendra Kumar	Dr S K Biswas	Effect of sintering hold time on mechanical properties of alumina ceramics in large dimension	Completed

DEPARTMENT OF PHYSICS

List of Candidates Awarded/Pursuing Ph. D. Degree

S. No.	Name of student	Supervisor	Topic	Status
1	Dr. Kanan Jassal	Dr. K.Sachdev, Dr. A. Chougule	Dosimetric aspects of a-Si based EPID and its application in advanced radio therapy	Awarded
2	Mr. Abhishek Sharma	Prof.K.C.Swami	Study of effects of plasma nitriding process on some nitridable materials	Submitted
3	Mr. Narendra Kr. Agrawal	Prof.K.C.Swami & Prof. Y.K Vijay	Study of Enhancement in Bio-Adoptability & Biocompatibility of Nano Composite Polymer Membranes by Plasma Treatment	Submitted
4	Ms. Parul Gupta	Prof. S. K. Sharma	Synthesis and characterization of SnO ₂ Based Gas Sensor	Ongoing
5	Ms. Indu Bala Vashishtha	Prof. S. K. Sharma	Study of CZTS Thin Film For Solar Cell Application	Ongoing
6	Ms. Poonam Sharma	Prof. S. K. Sharma	Corrosion and oxidation study of some Zr based bulk amorphous alloys for fuel reprocessing applications	Ongoing



7	Mr Vikas Sharma	Dr. K. Sachdev	Development of electro-optically efficient SnO ₂ thin films for opto-electronics applications	Ongoing
8	Mr. Dinesh Saini	Dr. K. Sachdev Prof. MK Banerjee	Investigations on Shape Memory alloys (Tentative)	Ongoing
9	Mr.Satyaveer Singh	Dr. K. Sachdev	Development of Transparent conducting oxides with enhanced properties (Tentative)	Ongoing
10	Mr. Sachin Surve	Dr. K. Sachdev Prof. MK Banerjee	Synthesis and investigations of semiconducting thin films (Tentative)	Ongoing
11	Ms. Neeru Sharma	Dr. K. Sachdev /Prof. S.K.Sharma	Gas Sensing Properties of Graphene	Ongoing
12	Mr. Mahendra Singh Rathore	Dr. Srinivasa Rao Nelamarri	Growth and modification of structural, optical and electrical properties of GeO ₂ thin films	Ongoing
13	Mr. Arun Vinod	Dr. Srinivasa Rao Nelamarri	Structural, optical and electrical properties of metal nanocrystals embedded in dielectric oxide layers for various applications	Ongoing
14	Meghna Rathore	Dr. Venkatratanam Kamma	Application for quantum optical state in cosmology	Ongoing
15	Renu Dhayal	Dr. Venkatratanam Kamma	Particle creation in the oscillatory phase of two mode thermal state in cosmology	Ongoing
16	Mr. Rajeev Kaushik	Dr. Rahul Singhal	Studeis of optical properties of embedded nanoparticles	Ongoing
17	Mr. Veeresh Kumar	Dr. Rahul Singhal	Ion irradiation studies of NiTi shape memory alloy thin films	Ongoing
18	Mr. Shushant Kumar	Dr. Rahul Singhal	Nanocomposite thin films of Ag/a-C	Ongoing
19	Ms. Trupti Sharma	Dr. Rahul Singhal	Development of efficient polymer-fullerene bulk heterojunction organic solar cell using plasmonics	Ongoing
20	Mr. Himanshu Sharma	Dr. Rahul Singhal	Optical properties of Ag-TiO ₂ nanocomposite thin films	Ongoing
21	Ms. Pooja Sharma	Dr. Rahul Singhal	Organic solar cell thin films	Ongoing
22	Ms. Priyanka	Dr. Subhayan Mandal & Dr. Sujin B. Babu (IITD)	Dynamics of Passive swimming in Newtonian fluid	Ongoing
23	Dhanya J.S	Dr. Subhayan Mandal	Understanding for collapse supernova	Ongoing
24	Karam chand	Dr. Subhayan Mandal	Pseudo Scalar-Photon Mixing in B-Mod polarization in CMB region	Ongoing
25	Yogita Kumari	Dr. Kamlendra Awasthi Prof. K. C. Swami	Nanostructured Block Copolymer Templates for Solar Cell Applications	Ongoing



26	Lokesh Kumar Jangir	Dr. Kamlendra Awasthi Prof. K. C. Swami	Engineering of Block Copolymer Nanotemplates for Optoelectronics	Ongoing
27	Rajesh Kumar	Dr. Kamlendra Awasthi	Functionalization of Nano-channels in Track Etched Polymeric membranes for Gas Separation/Sensing	Ongoing
28	Anil Kumar	Dr. Vinod Kumar & Dr. Kamlendra Awasthi	Synthesis and characterization of polyaniline based nanocomposite for electronic housing	Ongoing
29	Anoop MD	Dr. Manoj Kumar	High pressure magnetotransport on topological insulators	Ongoing
30	Pooja Kumari	Dr. Manoj Kumar	Fermi level tuning in Bi based topological insulators	Ongoing
31	Prashant Kumar	Dr. Manoj Kumar Dr. Kamlendra Awasthi	Study of electrical and optical properties of functional materials	Ongoing
32	Yogesh Kumar Saini	Kavita Lalwani	Investigating the effects of radiation damage in Silicon Detectors for future High Energy Physics experiments.	Ongoing

11.7 HONOURS AND AWARDS TO FACULTY MEMBERS

DEPARTMENT OF CIVIL ENGINEERING

Prof. A.B. Gupta:

- (i) Elected as Vice President of International Commission on Water Quality, one of the Commissions of IAHS in July 2015.
- (ii) Attended the Indo-U.S. Science and Technology Forum (IUSSTF) meeting as an expert for the award of fellowship under the partnership between the Department of Science and Technology (DST), Govt. of India, the University of Nebraska-Lincoln (UNL), the Daugherty Water for Food Institute (DWFI) on November 16, 2015.
- (iii) Selected as a member of scientific program committee of International Academy of Chemical, Civil & Environment Engineering in March 2016.

Dr. M.K. Jat:

Chaired a Session in the 1st International Conference on Disaster Mitigation and Management for Sustainable Development and Risk Reduction (ICDSSDR 2016) held during 22– 24, February 2016 at NIT Trichy.

DEPARTMENT OF CHEMICAL ENGINEERING

- ∂ Dr. Dipaloy Datta, Awarded ACS Membership for Three Years, 2015-2018
- ∂ Dr. V. Subbaramaiah has been selected for the Young Engineer Award by Institute of Engineers India
- ∂ Prof. S. P. Chaurasia has been nominated as Convener of International Relations Committee by All India Council of Indian Institute of Chemical Engineers, Kolkata for the year 2016.

**DEPARTMENT OF CHEMISTRY**

- Dr. Sandeep Chaudhary, Assistant Professor, Department of Chemistry has been given "Certificate of Outstanding Contribution in Reviewing" in June, 2015 in recognition of the contribution made to the quality of "Bioorganic and Medicinal Chemistry Letters" Journal (Impact factor = 2.420). This award was given by "THE EDITORS of BIOORGANIC AND MEDICINAL CHEMISTRY LETTERS" Journal, Elsevier, Amsterdam, Netherlands.

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Dr. Emmanuel Pilli, Assistant Professor, CSE was appointed member of the Editorial Board of Digital Investigation - The International Journal of Digital Forensics & Incident Response (SCI Journal by Elsevier)

DEPARTMENT OF ELECTRICAL ENGINEERING

1. Dr. Kusum Verma, Best Paper Award at 12th IEEE India International Conference (INDICON 2015), Jamia Millia Islamia, New Delhi, India 17-20 Dec.2015.
2. Dr. Kusum Verma, Reviewer Recognition Award from International Journal of Electrical Power and Energy Systems, Elsevier
3. Dr. Vijayakumar K, "POSOCO Power System Award (PPSA2014) for Doctoral Thesis and listed top 10 among all IITs and NITs." for Ph.D. Thesis given by POSOCO & Indian Institute of Technology (IIT), Delhi.
4. Dr. Vijayakumar K, "Young Scientist Award" for Startup research grant given by SERB - DST(Govt. of India) Year – 2015
5. Dr. Vijayakumar K, "Young Faculty Fellowship" for Research Project Grant given by Ministry of Communications & Information Technology (Govt. of India) Year - 2016

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

1. Young Faculty Research Fellowship "for Research given by DeitY, Ministry of Comm. & IT, Govt. of India Year – 2015.
2. "Young Scientist" for Research given by SCIENCE AND ENGINEERING RESEARCH BOARD, DST Year – 2015.
3. Award of Senior Membership of OSA (2015) and IEEE (2016) to Dr. Ghanshyam Singh.
4. Dr. Ghanshyam Singh was awarded OSA Traveling Lecturer by Optical Society of America to visit and interact with students and faculty members associated with OSA student chapter of Belarusian State University (BSU), Minsk (Belarus) in 2016.
5. OSA Student Chapter of MNIT Jaipur awarded 2016 Centennial Special Events Grant (USD 800) to organize OSA Young Student Congress on Photonic Technologies, (March 27 -28, 2016).
6. Invited membership to Dr. Ghanshyam Singh (with a designation Vice President) of Iris world Science & Technology Education and Research Society (A professional society registered with Government of Rajasthan).
7. Dr. Ghanshyam Singh has been Faculty Advisor, OSA Student Chapter, MNIT Jaipur since June 17th 2013.
8. Research achievement award from Institution of Engineers (I), for contribution to COMPUTER ENGINEERING field, Jan. 2015

9. Member, PRSG, Ministry of Comm. & IT, Govt. of India, DeitY sponsored project on Thermal Aware Testing of VLSI Circuits and Systems granted to Prof. S. Chatterjee, IIT Kharagpur, 2012-15.

DEPARTMENT OF HUMANITIES & SOCIAL STUDIES

1. The paper entitled 'An overview of trade volume and its composition: Comparative Analysis of EU, ASEAN and India' co-authored by Dr. Dipti Sharma won "Best Research Paper -Runners Up" Award in the General Management Track at the International Research Conference on Revitalizing Economies, Pioneering Innovation, organized by Jamnalal Bajaj Institute of Management Studies (JBIMS) University of Mumbai, during 2nd and 3rd March, 2016.

DEPARTMENT OF MECHANICAL ENGINEERING

Prof. G. S. Dangayach

- ∂ Cited in the list of TOP 20 prolific researchers of the world in the area of Operations Strategy in the recent publication of IJOPM in 2015
- ∂ Nominated as Member of Board of Management (BOM) of Rajasthan Technical University, Kota by Govt. of Rajasthan for three years since 2014
- ∂ Council Member of The Institution of Engineers (India) during 2014-16
- ∂ Nominated as Member of Selection Committee of Rajasthan Technical University, Kota by Govt. of Rajasthan
- ∂ Nominated as Member of Committee for Advancement of Technology & Engineering (CATE) of The Institution of Engineers (India) for session 2015-16
- ∂ Nominated as Member of All India Student's Committee (AISC) of The Institution of Engineers (India) for session 2015-16
- ∂ Nominated as Member of National Languages Promotional Committee (NLPC) of The Institution of Engineers (India) for session 2015-16
- ∂ Member of BOS of The Institution of Engineers (India) for session 2015-16
- ∂ Member of BOS in JK Lakshmipat University, Jaipur
- ∂ Member of BOS in JECRC University, Jaipur
- ∂ Member of Governing Council of Dr. Gaur Hari Singhania Institute of Management & Research (GHS-IMR), Kanpur
- ∂ Co-opted as Member of Production Engineering Division Board, The Institution of Engineers (India), for terms 2013-14, 2014-15, 2015-16
- ∂ Member of NBA Team as Expert for tier-1 & tier -2 institutions
- ∂ Member of AICTE team as expert
- ∂ Dr Dinesh Kumar, Assistant Professor of Mechanical Engineering Department has been chosen Vice-President of the Executive Council of the Indian Society of Theoretical and Applied Mechanics (ISTAM 2015) for organizing successfully the 60th International Conference of Indian Society of Theoretical and Applied Mechanics (ISTAM 2015) during December 16-19, 2015 at MNIT Jaipur.

DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING

Prof. M. K. Bannerjee

- External Chair Professor, Southwest Petroleum University, Chengdu, China
- Honorary Fellow, Deakin University, Australia



- Member International Advisory Committee, Molecular Science and Technology, a graduate program under the Taiwan International Graduate Program (TIGP) sponsored by Academia Seneca, Taiwan
- Chairman Board of Governors, Calcutta Institute of Engineering and Management, Kolkata, West Bengal, India

Prof. P.R. Soni

Invited as Guest Speaker on the occasion of the book release ceremony of 16th edition-2016 of Asmanaya Vishwa held on Feb.28 2016, Pink City Press Club, Jaipur.

DEPARTMENT OF PHYSICS

Dr. Kanupriya Sachdev: Executive member –Thermo Physical Society of India (TPSI)

Dr. Manoj Kumar: Executive member –Indian Association of Physics Teachers (IAPT) RC-6.

Dr. Manoj Kumar: Executive member/ Treasurer –Soft Materials Research Society (SMRS)

Dr. Kamalendra Awasthi, Executive Member, Soft Materials Research Society (SMRS)

11.8 PUBLICATIONS AND RESEARCH PAPERS IN CONFERENCES ETC.**DEPARTMENT OF ARCHITECTURE & PLANNING****Research Papers Published in International Journals:**

- i) Chaudhary M., Kumar A., (2015) Exploring Non- Motorized Transportation for Indian Cities: A Sustainable System, International Journal of Town Planning and Management, Vol 1, Issue 1, PP 32-637.
- ii) Kumar A., (2015), Impact of Building Regulations on Indian Hill Towns, accepted for publication in Elsevier, HBRC Journal (<http://dx.doi.org/10.1016/j.hbrcej.2015.02.002>).
- iii) Kumar A., Pushplata, (2015), City Profile: Shimla, Elsevier, Cities Journal, 49 pp 149-158 (<http://dx.doi.org/10.1016/j.cities.2015.08.006>).
- iv) Kumar A., Pushplata, (2015), Building Regulations for Hill Towns of India, Elsevier, HBRC Journal vol. 11 pp 275-284. (doi information. 10.1016/j.hbrcej.2014.06.006).

Research Papers Published in National Journals:

- i) Kumar, N. and Devadas, V. Analysis of Residential Building Energy Consumption in Jaipur City, India. Journal of the Indian Institute of Architects 2015; Vol-80, Issue-09, pp. 30-37.
- ii) Kumar, N. and Devadas, V. Analysis of Energy Consumption for Personal Transportation System in Jaipur City. Journal of the Institute of Town Planners, India 2015; Vol- 12, No. 2, pp. 28-48.

List of Papers Presented at International Conferences:

- i) Pipralia S., Kumar A., Jawaid F., (2016), Exploring the Imageability of Urban Form in Walled City Jaipur, 4th Annual International conference on Architecture and civil engineering (ACE 2016) from 24-26 April 2016 Singapore (ISSN: 2301-394X), (doi: 10.5176/2301-394X_ACE16.43).
- ii) Sharma K.V., Pipralia S., Kumar A., (2016), Modifying the Geometric and Operational Design of Truck Terminal in Ajmer city, Rajasthan, International Conference on Recent Trends in Engineering and Material Sciences (ICEMS-2016), Jaipur National University 16-19 March 2016.
- iii) Bhavna Tripathi, Tarush Chandra and Sandeep Chaudhary, “Durability and Dimensional Stability of Concrete Containing ISF Zinc Slag as Sand”, proc. of 13th International Conference on Recent Advances in Concrete Technology and Sustainability Issues, American Concrete Institute Special Publication, P. Gupta and P. Gupta, ed., SP-303- 16, 2015.

List of Papers Presented at National Conferences

- i) Anita Singh Batar, Tarush Chandra, “Municipal Solid Waste Management: A Paradigm to Smart Cities” presented at National Conference on Sustainable Built Environment, at IIT Roorkee on 10-12 April 2015.
- ii) Achinta Prabhab Boruah, Pooja Nigam, "Earthquake Resistant Smart Cities" National Conference on Sustainable Built Environment by, at IIT Roorkee on 10-12 April 2015.

Monographs published

S. No.	Title	Author	Publisher
1.	ECBC Code Compliance and Beyond: a pilot study	Jyotirmay Mathur, Sanjay Mathur, Tarush Chandra, Ashu Dehdani	Centre for Energy Environment (CEE), MNIT Jaipur in association with Pacific Northwest National Laboratory, USA

Faculty members who completed Ph. D. /M.Tech during the Year 2015-16

- i) Dr. Tarush Chandra, completed his Ph.D. from CEPT University, Ahmedabad in the Academic year 2015-16 on February 02, 2016.

Membership of Professional bodies

S. No.	Name of the Faculty	Membership
1.	Prof. Alok Ranjan	Institute of Town Planners India Indian Institute of Architects
2.	Prof. Rajeev Shringi	Institute of Town Planners India Indian Institute of Architects
3.	Mr. Ram Niwas Sharma	Institute of Town Planners India Indian Institute of Architects Indian Institute of Interior Design
4.	Ms. Reena Surana	Indian Institute of Interior Design Indian Institute of Architects
5.	Ms. Kalpana Pandit	Institute of Town Planners India Indian Institute of Architects
6.	Ms. Meenu Varshney	Institute of Town Planners India Indian Institute of Architects
7.	Mr. Tarush Chandra	Institute of Town Planners India Indian Institute of Architects
8.	Dr. Satish Pipralia	Institute of Town Planners India Indian Institute of Architects
9.	Mr. Nischal Jain	Indian Institute of Interior Design Indian Institute of Architects
10.	Mr. Nand Kumar	Institute of Town Planners India Indian Institute of Architects
11.	Ms. Pooja Nigam	Institute of Town Planners India Indian Institute of Interior Design Indian Institute of Architects



Student Chapters of Professional Bodies/Deptt.

Activities organized by the chapters (only by the students of the deptt.)

Student's participation in technical contest etc. in other institutes and results

Students of the Metallurgical and Materials Engineering Department participate very enthusiastically in various events/trophies organized by NASA every year. They compete for different trophies like LIK Trophy, ANDC, IDC/ Product Design, GRIHA, HUDCO, Landscape, UOW and Reubens Trophy. In the NASA convention 2015-16 at Zonal level, the students of the department submitted Product Design Entries, unknown craft person entries, GRIHA entry and Landscape Design Entries, etc and were declared first runner up for the Main Design Trophy.

CENTRE FOR ENERGY & ENVIRONMENT

Research Papers Published in International Journals:

1. Manish Yadav, Nitin Kumar Singh, Richa Sinha, Urmila Brighu, Sanjay Mathur, A. B. Gupta , "Performance evaluation of community level de-fluoridation plants: A case study from Nagaur and Jodhpur, Rajasthan" , Nature Environment and Pollution Technology Volume :14 / 83-88 / 2015 ISBN: 0972-6268.
2. Anuj Mathur, Ayushman Srivastava, Jyotirmay Mathur, Sanjay Mathur, G.D. Agrawal , "Transient effect of soil thermal diffusivity on performance of EATHE system" , Energy Reports Volume :1 / 17-21 / 2015.
3. Richa Sinha, Sanjay Mathur , "Control of aluminium in treated water after defluoridation by electro coagulation and modeling of adsorption isotherms" , Desalination and Water Treatment Volume :10 / 1-11 / 2015.
4. Manish Yadav, Priya Tripathi, Aditya Choudhary, Urmila Brighu, Sanjay MATHur , "Adsorption of fluoride from aqueous solution of Bio-F sorbent: A fixed -bed Column study" , Desalination and Water Treatment Volume :10 / 1-9 / 2015.
5. Anuj Mathur, Ayushman Srivastava, G.D. Agrawal, Sanjay Mathur, Jyotirmay Mathur , "CFD analysis of EATHE system under transient conditions for intermittent operation" , Energy & Buildings Volume :87 / 37-44 / 2015.
6. Richa Sinha, Sanjay Mathur and Urmila Brighu , "Aluminium removal from water after defluoridation with electro coagulation process" , Environmental Technology Volume :10 / 1-26 / 2015.
7. Gupta H.K., Agarwal G.D, Mathur J. , "An experimental investigation of a low temperature Al₂O₃-H₂O nanofluid based direct absorption solar collector" , Solar Energy Volume :118 / 339-396 / 2015.
8. Gupta B.L., Bhatnagar M., Mathur J. , "Optimum Sizing of PV panel, Battery Capacity and Insulation thickness for a Photovoltaic Operated Domestic Refrigerator" , Sustainable Energy Technology Volume :7 / 55-67 / 2015.
9. Chedwal R., Dhaka S., Mathur J. , "Energy saving potential through energy conservation building code and advance energy efficiency measures in hotel buildings of Jaipur city, India" , Energy & Buildings Volume :92 / 282-295 / 2015.
10. Khan Y., Khare V., Bhandari M., Mathur J. , "Performance Evaluation of Radiant Cooling System Integrated with Air System under Different Operational Strategies" , Energy & Buildings Volume :97 / 118-128 / 2015.

- Mathur A., Surana A.K., Verma P., Mathur S., Agrawal GD, Mathur J, "Investigation of soil thermal saturation and recovery under intermittent and continuous operation of EATHE" , Energy & Buildings Volume :109 / 291-303 / 2015.

List of Papers Presented at International Conferences:

- Jyotirmay Mathur, Mahabir Bhandari, Anuj Sharma, Pratik Srivastava; Paper presentation on Performance Evaluation of Radiant Cooling System in Composite Climate -BS2015, Hyderabad, India, 7-9th Dec, 2015.
- Jyotirmay Mathur, Mahabir Bhandari, Vaibhav Rai Khare, Anuj Mathur; Paper presentation on Development of Personalized Radiant Cooling System for an Office Room -BS2015, Hyderabad, India. 7-9th Dec, 2015.

Membership of Professional bodies

S. No.	Name of Faculty	Membership
1.	Dr Vivekanand	Life Member - Biogas Forum India (BIGFIN)
2.	Dr Vivekanand	Life Member - The Biotech Research Society (BRS) India
3.	Dr Vivekanand	Life Member - Mycological Society of India

Any other details worth publication in Annual Report 2015-16

S. No.	Name of Faculty	Particulars
1.	Prof Jyotirmay Mathur, Dr. Kapil Pareek	Sustainable Energy and Environment Quiz on 22th Aug, 2015
2.	Prof Jyotirmay Mathur, Dr. Kapil Pareek	Energy Club of CEE nominated for 8th India Power award by Council for Power Utilities
3.	Prof Jyotirmay Mathur, Dr. Kapil Pareek	Energy Club of CEE nominated for 6th Rajasthan Energy Conservation Award
4.	Prof Jyotirmay Mathur, Dr Vivekanand	Greenovation 2015 a technical contest-2015 by Energy Club
5.	Dr. Amartya Chowdhury, Dr. Kapil Pareek	M. Tech student visit to Renewable Energy Expo at India Expo Centre, Greater Noida.
6.	Dr. Kapil Pareek	M. Tech student visit to wind power plant at Sikar

Patents filed by the department /faculty

S. No.	Patent brief detail	Status (filed/accepted)	Year
1	Based on Portable Refrigerant Charge Monitoring Device	Filed (1 st stage complete)	2016
2	Chiller Selection Optimization for Energy Efficiency	Filed	2016

**DEPARTMENT OF CIVIL ENGINEERING****Research Papers Published in International Journals:**

1. Navin P.K., Mathur Y.P., and Gupta S.K., (2015). "Study of hourly monsoon rainfall data of Jaipur for development of critical rainfall intensity equation." *International Journal of Engineering Technology, Management, and Applied Sciences*, 3(3).
2. Navin P.K. and Mathur Y.P., (2016). Layout and Component Size Optimization of Sewer Network using Spanning tree and Modified PSO Algorithm. *Water Resources Management*, 1-17.
3. T. S. Rami Reddy and A. B. Gupta, "Mathematical model of biodegradation process of sewage due to addition of Chlorides", accepted for publication in *Desalination and Water Treatment*.
4. Saakshy, A .K Sharma, Kailash Singh and A. B. Gupta (2015). Fly Ash As Low Cost Adsorbent For Treatment of Effluent Of Handmade Paper Industry-Kinetic And Modeling Studies For Direct Black Dye, accepted for publication in the *Journal of Cleaner Production*, 10.1016/j.jclepro.2015.09.058 (Impact factor:2.5).
5. Priyanka Sharma, Madhu Agarwal, A. B. Gupta. Polyaluminium chloride – an alternative to alum for defluoridation, *International Journal of Advance Research in Science and Engineering*, 4 (01), 2015 taken from ICRAESM-15.
6. Kavita Verma, K.D. Gupta, A. B. Gupta (2015). Hybrid Disinfection of Sewage Effluent – A Comparative Study of Three Secondary Treatment Plants of Jaipur, India, accepted for publication in *Desalination and water treatment*.
7. Saakshy Agarwal, Shashi Yadav, Ashwini Sharma, Kailash Singh and A. B. Gupta (2016), "Kinetic And Equilibrium Studies of Decolorization Of Effluent Of Handmade Paper Industry By Low Cost Fly Ash" published in *Desalination and Water Treatment*. DOI:10.1080/19443994.2016.1157764.
8. Ashish Tambi, Urmila Brighu, A. B. Gupta," A Sensitive Presence-Absence Test Kit for Detection of Coliforms in Drinking Water (Sensitive Coliform Detection Kit)", accepted for publication in *WST: Water Supply*.
9. Kuldeep Tiwari, Rohit Goyal, Archana Sarkar, Priyamitra Munoth (2015). Integrated water resources management with special reference to water security in Rajasthan, India. *Discovery, The International Daily journal*, 41(188), 93-101.
10. Dhotre, ST, Sharma, G., Goyal, R. and Parikh, SK (2015), "Soil Moisture Estimating Governing Models –Parameter Estimation- A Review," *Int. J. of Emerging Tech. and Adv. Engg.*, www.ijetae.com, 5(2), pp.165-172.
11. Dhotre, ST, Sharma, G., Goyal, R. and Parikh, SK (2015), "Soil Moisture Estimating Governing Models- A Review," *Int. J. of Emerging Tech. and Adv. Engg.*, www.ijetae.com, 5(2), pp.158-164.
12. Dhotre, ST, Sharma, G., Goyal, R. and Parikh, SK (2014), "Finite Element Analysis for Seepage through Saturated and Unsaturated Soil-masses with Special Reference to the Details of Formulation of Equations Governing the Phenomenon," *Int. J. of Emerging Tech. and Adv. Engg.*, www.ijetae.com, 4(12), pp.661-672.
13. Richa Sinha, Sanjay Mathur, "Use of activated silica sol as a coagulant aid to remove aluminium from water defluoridated by electro coagulation" *Desalination and Water Treatment*, doi: 10.1080/19443994.2015.1084536.
14. Santosh Pingale, Deepak Khare, Mahesh K. Jat and Jan Adamowski (2016), "Trend analysis of climatic variables in an arid and semi-arid region of Ajmer District, Rajasthan, India", *Journal of Water and Land Development*, No. 28, I-III, 3 - 18. ISSN 1429-7426.
15. Santosh Pingale, Mahesh K. Jat, Deepak Khare and Jan Adamowski (2015), "Implications of Spatial Scale on Climate Change Assessments" *Journal of water and Land Development*, *Journal of Water and Land Development*, No. 26 (VII-IX), 37-56, 2015. ISSN 1429-7426.

16. Rohitashw Kumar, Vijay Shankar and Mahesh K. Jat (2015), "Evaluation of root water uptake Models- A review", ISH Journal of Hydraulic Engineering, Taylor & Francis, Volume 21, Issue 2, Page 115 – 124.
17. Gupta, T., Sharma, R. K., and Chaudhary, S. (2015). "Mechanical and durability properties of waste rubber fiber concrete with and without silica fume." Journal of Cleaner Production, In Press, <http://dx.doi.org/10.1016/j.jclepro.2015.07.081>
18. Tripathi, B., and Chaudhary, S. (2015). "Performance based evaluation of ISF slag as a substitute of natural sand in concrete". Journal of Cleaner Production, In Press, <http://dx.doi.org/10.1016/j.jclepro.2015.07.120>
19. Gupta R. K., Kumar, S., Patel, K. A., Chaudhary, S., and Nagpal, A. K. (2015). "Rapid prediction of deflections in multi-span continuous composite bridges using neural networks. International Journal of Steel Structures." International Journal of Steel Structures, Accepted for Publication, Ms. No. SSIJ-D-14-00170R1.
20. Gupta, T., Sharma, R. K., and Chaudhary, S. (2015). "Influence of waste tyre fibers on strength, abrasion resistance and carbonation of concrete." Scientia Iranica A, 22(4), 1481-1489
21. Ramnavas, M. P., Patel, K. A., Chaudhary, S., and Nagpal, A. K. (2015). "Cracked span length beam element for service load analysis of steel concrete composite bridges." Computers & Structures, 157, 201-208
22. Gupta, T., Sharma, R. K., and Chaudhary, S. (2015). "Impact resistance of concrete containing waste rubber fiber and silica fume." International Journal of Impact Engineering, 83, 76-87
23. Pendharkar, U., Patel, K. A., Chaudhary, S., and Nagpal, A. K. (2015). "Rapid prediction of long-term deflections in composite frames." Steel and Composite Structures, 18, 547-563.
24. Blessen Skariah Thomas, Ramesh Chandra Gupta and Vinu John Panicker, "Experimental and modeling studies on high strength concrete containing waste tire rubber", Paper published in Sustainable Cities and Society 19 (2015) published by Science Direct - Elsevier Ltd., pp 68-73.
25. Blessen Skariah Thomas, Ramesh Chandra Gupta, Priyansha Mehra and Laszlo Sanjeev Kumar, "Performance of high strength rubberized concrete in aggressive environment", Paper published in Construction and Building Materials 83 (2015) published by Science Direct - Elsevier Ltd., pp 320-326.
26. Blessen Skariah Thomas, Ramesh Chandra Gupta, Pawan Kalla and Laszlo Csetenyi, "Strength, abrasion and permeation characteristics of cement concrete containing discarded rubber fine aggregates", Paper published in Construction and Building Materials 59 (2014) published by Science Direct - Elsevier Ltd., pp 204–212.
27. Tiwari, S.K. and Kumawat, N.K. (2014) "Recent Developments in Ground Improvement Techniques- A Review", International Journal of Recent Development in Engineering and Technology Website: www.ijrdet.com (ISSN 2347 - 6435 (Online)) Volume 2, Issue 3, March 2014), pp 67-77
28. Tiwari S.K, Sharma J.P and Yadav J.S,(2016) "Behavior of dune sand and its stabilization technique" Journal of Advanced Research in Applied Mechanics ISSN (online): 2289-7895 | Vol. 19, No. 1. Pages 1-15, 2016
29. Singh, S., Khan, S., Khandelwal, R., Chugh, A. and Nagar, R., 2016. Performance of sustainable concrete containing granite cutting waste. Journal of Cleaner Production, 119, pp.86-98.
30. Singh, S., Nagar, R., Agrawal, V., Rana, A. and Tiwari, A., 2016. Sustainable utilization of granite cutting waste in high strength concrete. Journal of Cleaner Production, 116, pp.223-235.
31. Singh, S., Nagar, R. and Agrawal, V., 2016. A review on Properties of Sustainable Concrete using granite dust



as replacement for river sand. *Journal of Cleaner Production*, 126, pp.74-87.

32. Singh, S., Nagar, R. and Agrawal, V., 2016. Performance of granite cutting waste concrete under adverse exposure conditions. *Journal of Cleaner Production*, 127, pp.172-182.
33. Tiwari, A., Singh, S. and Nagar, R., 2016. Feasibility assessment for partial replacement of fine aggregate to attain cleaner production perspective in concrete: A review. *Journal of Cleaner Production*, 135, pp.490-507.

List of Papers Presented at International Conferences:

1. Navin P.K., Mathur Y.P. (2015) Application of graph theory for optimal sewer layout generation. In Proceeding of International conference on GCCT, pp (151-157).Discovery Publication.
2. Navin P.K., Mathur Y.P., and Gupta S.K. (2015).Study of hourly monsoon rainfall data of Jaipur for development of critical rainfall intensity equation. International on Emerging Trends of Engineering, Science, Management and its Applications, organized by Academic Science and Conference Info, JNU Convention Center, New Delhi.
3. Navin P.K., Mathur Y.P. (2016) Design optimization of sewer system using particle swarm optimization. IN Proceedings of Fifth International Conference on Soft Computing for Problem Solving(pp 173-182).Springer Singapore.
4. Navin P.K., Mathur Y.P. (2016). Layout optimization of sewer network using minimum cumulative flow in the sewer network. In Proc. International conference on Waste Management (Recycle-2016), IIT Guwahati, India.
5. A. B. Gupta, Nitrate toxicity and biological nitrogen removal- new dimensions presented at ICBN-2016, IIS University, Jaipur, Jan 31, 2016. The abstract was published in the proceedings.
6. Munoth, P., Tiwari, K. and Goyal, R. (2015). “Fluoride and Nitrate Groundwater Contamination in Rajasthan, India: A Review”. HYDRO 2015, 20th International Conference on Hydraulics, Water Resources and River Engineering Roorkee, India, 17-19 December, 2015
7. Tiwari, K., Goyal, R., Sarkar, A. and Munoth, P. (2015). “Integrated Water Resources Management with Special Reference to Water Security in Rajasthan, India”. International Conference on Geo-Engineering and Climate Change Technologies for Sustainable Environmental Management (GCCT-2015), Allahabad, India, October 9-11, 2015.
8. Mala, Shuchi, and Jat, MK., (2015), “Understanding Spatial-Temporal Patterns of Cholera using Geographic Information System and Statistical Methods”, 6th International Conference on HealthGIS, Mysore, India, 19-21 November 2015, pp.48.
9. Surendra Pratap Singh and Mahesh Kumar Jat., (2015), “Down Scaled Climate Change Projections With Uncertainty Assessment Over India Capital Region Delhi Using A Statistical Downscaling Model Approach” 35th Session of Academy of Environmental Biology, Lucknow Thakur College of Science & Commerce, Kandivali, Mumbai. December 21-23, 2015; Page 138.
10. Surendra P. Singh and Mahesh K. Jat, (2015), “Assessment of Climate Change Using Spatial and Temporal Trend Analysis of Climatic Data: A Case study of Delhi, India”, In Proceedings of 20th International Conference on Hydraulics, water Resources and Rive Engineering (HYDRO-2015) held at IIT Roorkee, December 17-19, 2015,
11. Surendra Sing and Mahesh K. Jat (2015), “Influence of land use/land cover change on atmospheric dynamics over the National Capital Region, Delhi, India”, In Proceedings of Eighth International Geographical Union (IGU) Conference 2015, held at SNTD Women University Pune (India), Nov. 4-6, 2015, Section-III, 56
12. Mahesh K. Jat, (2015), “Flood Planning Mapping using Geospatial Analysis Techniques”, Presented in Asian Forum on ICT for Sustainable Development, May 24-27, 2015.
13. Vinay Chandwani*, Sunil Kumar Vyas, Vinay Agrawal, Gunwant Sharma, 2015. “Soft computing approach for rainfall-runoff modeling: A review”, International Conference on Water Resources, Coastal and Ocean ENGINEERING (ICWRCOE 2015), Aquatic Procedia 4 (2015) 1054 – 1061, Science Direct.



14. Tiwari S.K, Yadav, J.S, “Tire Chips-Sand Composites: A noble Technique”, The 7th Asia Pacific Young Researchers And Graduates Symposium at University of Malaya, Kuala Lumpur, Malaysia 20-21 August 2015.
15. Tiwari S.K, Sharma J.P and Yadav J.S, “Geotechnical Properties of Dune Sand-Waste Tires Composite” at ICEMS JNU JAIPUR 2016.
16. Sarbjeet Singh, Anshuman Tiwari, Ravindra Nagar, Vinay Agrawal, Feasibility as a Potential Substitute for Natural Sand: A Comparative study between Granite Cutting Waste and Marble Slurry. 5th ISWMAW IISc Bangalore
17. Sarbjeet Singh, Ravindra Nagar, Vinay Agrawal, Aditya Rana, Utilization of granite cutting waste in concrete as partial replacement of sand, UKIERI Concrete Congress

List of Papers Presented at National Conferences

1. A. B. Gupta, delivered an invited talk on “Some of my experiments involving green chemistry research” at Negcsts-16, GGC Ajmer, January 12, 2016. The abstract was published in the proceedings.
2. A. B. Gupta, delivered a keynote address on “Drinking water quality in Rajasthan- the associated problems and engineering solutions- role of membrane processes” at National Seminar on Current Issues (NSCI-III), VGU, Jaipur, February 27, 2016.
3. A. B. Gupta, delivered an invited talk on “Energy, Environment and pollution nexus- the way ahead” at NCEEP 2016, AIT Jaipur, March 5, 2016.
4. A. B. Gupta, delivered an invited talk on “Advances in Biological waste water treatment systems” at 21st Indian Plumbing Congress, Jaipur, March 19, 2016

Membership of Professional bodies

S. No.	Name of Faculty	Membership
1.	Prof. Y.P. Mathur	<ol style="list-style-type: none"> 1. Member of The Institution of Engineers, India (I.E.) 2. Life Member of Indian Society for Technical Education (ISTE) 3. Life Member of Indian Water Resources Society (IWRS) 4. Life Member of The Indian Water Works Association (IWWA)
2	Prof. Rohit Goyal	<ol style="list-style-type: none"> 1. Life member of Indian Society of Geomatics since 2007. Membership No.: ISG-L-985. 2. Life Member of The Institution of Engineers, India (I.E.) since 1990. Membership No.: M 58057/5 3. Fellow (Since 2003) & Life Member of the Indian Society for Hydraulics (ISH) since 1994. Membership No.: F-114, LM/94/114, Member Editorial Board, 2003-2005. 4. Life Member of Indian Society for Technical Education (ISTE) since 1990. Membership No.: LM 6823 5. Life Member of Indian Society of Remote Sensing (ISRS) since 1989. Membership No.: L 609 6. Life Member of Indian Water Resources Society (IWRS) since 1988. Membership No.: LM-88-1760 7. Life Member of The Indian Association of Hydrologists (IAH) since 1990. Membership No.: LM-638 8. Life Member of Computer Society of India (CSI) since 1995. Membership No.: 2450



3.	Prof. Gunwant Sharma	<ol style="list-style-type: none"> 1. Life Member of The Institution of Engineers, India (I.E.) 2. Life Member of The Indian Society for Hydraulics (ISH) 3. Life Member of Indian Society for Technical Education (ISTE) 4. Life Member of Indian Society of Remote Sensing (ISRS) 5. Life Member of Indian Water Resources Society (IWRS) 6. Life Member of The Indian Association of Hydrologists (IAH)
4.	Dr. S. K. Tiwari	<ol style="list-style-type: none"> 1. Life Member of INDIAN SOCIETY FOR ROCK MECHANICS AND TUNNEL TECHNOLOGY. 2. Life Member of INDIAN SOCIETY FOR TECHNICAL EDUCATION 3. Life Member of THE INDIAN GEOTECHNICAL SOCIETY (IGS). 4. Hons. SECRETARY INDIAN GEOTECHNICAL SOCIETY JAIPUR CHAPTER

Any other details worth publication in Annual Report 2015-16

S. No.	Name of Faculty	Particulars
1.	Dr. M. K Jat	Computational Modules (project) in CET 601 (Spatial Data Analysis Laboratory) Course (i) Geometric Rectification of Maps/ Images using ERDAS Imagine (ii) Classification of remote sensing images using Unsupervised/Supervised Methods (iii) Preparation of FCC and resolution merge for Remote Sensing images
2.	Dr. M. K Jat	Computational Modules (project) in CET 608 (Geoinformatics Laboratory) Course (i) Module for Automatic Watershed Characterization in GIS (ii) GIS based Runoff Estimation Module (iii) GIS based Soil Erosion Estimation Module

DEPARTMENT OF CHEMICAL ENGINEERING

Research Papers Published in International Journals

1. Dinker, A., Agarwal, M., Agarwal, G.D. (2015). Heat Storage Materials, Geometry and Applications-A review. *Journal of the Energy Institute*, 10;DOI:10.1016/j.joei.2015.10.002.
2. Dinker, A., Agarwal, M., Agarwal, G.D. (2016). Preparation, characterization and performance study of beeswax/expanded graphite composite as thermal storage material. *Experimental Heat Transfer*. DOI: 10.1080/08916152.2016.1185198.
3. Agarwal, M. and Dey P. (2016). Adsorption Efficiency of Magnetite Nanoparticles for Chromium (VI) removal from water. *Journal of the Indian Chemical Society*. 93(2): 199-209.
4. Agarwal, M. and Patel, D. (2015). Modified Zero valent Iron (ZVI) Nanoparticles for removal of Manganese from water. *International Journal Environmental Research*, 9(3):1055-1068, Summer 2015 ISSN: 1735-6865.
5. Mehta, D., Mondal, P., George, S. (2016). Utilization of marble waste powder as a novel adsorbent for removal of fluoride ions from aqueous solution. *J. of Environmental Chemical Engineering*, 4, 932-942.
6. Datta, D. and Uslu, H. (2015). Experimental and Theoretical Investigations on the Reactive Extraction of

- Itaconic (2-Methylidenebutanedioic) Acid using Trioctylamine (N, N-dioctyloctan-1-amine), *Journal of Chemical & Engineering Data*, April, 60(5), 1426-1433.
7. Datta, D. and Kumar, S. (2015). Reactive Extraction of Picolinic Acid using Tri-n-Octylamine Dissolved in Different Diluents: Effect of Solvent Polarity, *Journal of Chemical & Engineering Data*, 60(9), 2709-2716.
 8. Datta, D., Uslu, H., Kumar, S. (2015) Adsorptive Separation of Copper (Cu^{+2}) from Aqueous Solution Using Trioctylamine Supported Montmorillonite, *Journal of Chemical & Engineering Data*, 60(11), 3193-3200.
 9. Datta, D., Aşçi, Y.S., Tuyun, A.F. (2015). Extraction Equilibria of Glycolic Acid Using Tertiary Amines: Experimental Data and Theoretical Predictions, *Journal of Chemical & Engineering Data*, 60 (11), 3262-3267.
 10. Dohare, R.K., Singh, K., Kumar, R., Upadhyaya, S. (2015). Simulation-Based Artificial Neural Network Predictive Control of BTX Dividing Wall Column, *Arabian Journal for Science and Engineering*, 40, 3393-3407.
 11. Gupta, V. K., Sharma, M., & Vyas, R. K. (2015). Hydrothermal modification and characterization of bentonite for reactive adsorption of methylene blue: An ESI-MS study. *Journal of Environmental Chemical Engineering*, 3(3), 2172-2179.
 12. Gupta, V. K., Sharma, M., Singh, K., & Vyas, R. K. (2016). Reactive adsorption of phenol onto Fe-GAC: Parallel pore batch modeling and experimental studies. *Journal of the Taiwan Institute of Chemical Engineers*, 63, 116-124.
 13. Uslu, H., Datta, D., and Azizian, S. (2016). Separation of Chromium (VI) from its Liquid Solution Using New Montmorillonite Supported with Amine Based Solvent, *Journal of Molecular Liquids*, 215, 449-453.
 14. Uslu, H., Datta, D., and Kumar, S. (2015). Investigations on the Reactive Extraction of Glyoxylic Acid by Amberlite-LA2 dissolved in Alcoholic Diluents, *Separation Science & Technology*, 50(17), 2658-2667.
 15. Uslu, H., Datta, D., and Bamufleh, H.S. (2016). Extraction of Picric Acid from Wastewater by a Secondary Amine (Amberlite LA2) in Octan-1-ol: Equilibrium, Kinetics, Thermodynamics and Molecular Dynamic Simulation, *Industrial & Engineering Chemistry Research*, 55 (12), 3659-3667.
 16. Uslu, H., Datta, D., Bamufleh, H.S. (2015). Reactive Extraction of Phenol from Aqueous Solution Using Tri-Octylamine Dissolved in Alkanes and Alcohols, *Journal of Molecular Liquids*, September, 212, 430-435.
 17. Kuldeep, Saharan, V.K. (2016). Computational study of different venturi and orifice type hydrodynamic cavitating devices, *Journal of Hydrodynamics*, 28, 293-305.
 18. Agarwal, M., Patel, D., and Dinker, A. (2016). Optimization of Manganese removal from water using Response Surface Methodology. *Iranian Journal of Science and Technology (Sciences)*. 41(1):63-73.
 19. Mondal, P. and George, S. (2015). Removal of Fluoride from drinking water using Novel adsorbent – Magnesia Hydroxyapatite. *Water, Air & Soil Pollution*, 226, 1-15.
 20. Mondal, P., George, S., and Mehta, D. (2016). Defluoridation studies with synthesized Magnesium-incorporated hydroxyapatite and parameter optimization using Response Surface Methodology, *Desalination and Water Treatment*, 1-20.
 21. Rajoriya, S., Carpenter, J., Saharan, V.K., and Pandit, A.B. (2016) Hydrodynamic cavitation: an advanced oxidation process for the degradation of bio-refractory pollutants, *Reviews in Chemical Engineering*.
 22. Kumar, S., Uslu, H., Datta, D., Rarotra, S., and Rajput, K. (2015). Investigation of Extraction of 4-Oxopentanoic Acid by N, N-Dioctyloctan-1-amine in Different Diluents: Equilibrium Study, *Journal of Chemical & Engineering Data*, 60(5), pp. 1447-1453.
 23. Upadhyaya, S., Singh, K., Chaurasia, S.P., Dohare, R.K., Agarwal, M., Mathematical and CFD modeling of vacuum membrane distillation for desalination, *Desalination and Water Treatment*, 57(26), 11956-11971, 2016.

**Research Papers Published in National Journals**

1. Bisht, R., Agarwal, M., and Singh, K. (2015). Removal of Chromium from waste water using agricultural waste materials-A review. *Journal of Applied Chemistry*. 6: 7-10.
2. Mehta, D., George, S., and Singh, A. (2016). Assessment of Different Synthesis Route of Hydroxyapatite and Study of its biocompatibility in Synthetic Body Fluids, *International Journal of ChemTech. Research*, 9(3), 267-276.

List of Papers Presented at International Conferences

1. Bhatia, A., Dohare, R. K., Singh, A., Singh, K., Agarwal, M., Upadhyaya, S., "Simulation Based Control of Auto Refrigerated Reactor for Bulk Styrene Polymerization." International Conference on Computational Technologies (ICCT 2016), 26-27 March 2016 at Poddar International College, Jaipur.
2. Dinker, A., Agarwal, M., Agarwal, G.D., "Experimental Study on Thermal Performance of Beeswax as Thermal Storage Material". International Conference on recent trends in Engineering and material sciences, held on 17-19, March 2016 at JNU Jaipur Rajasthan.
3. Dinker, A., Agarwal, M., Agarwal, G.D., "Preparation and Application of Expanded Graphite/Water Suspension for Thermal Storage Using Graphite as Heat Storage Material". 2nd International Conference on Emerging Technologies: Micro to Nano ETMN 2015. 24-25 October 2015, Manipal University Jaipur.
4. Abhay Dinker, Madhu Agarwal and G.D. Agarwal. "Thermal performance analysis of beeswax as thermal storage material with different types of heat transfer fluids". International Conference on Computational Technology (ICCT-2016), 26-27 March 2016, Poddar International College, Jaipur.
5. Bisht, R., Agarwal, M., and Singh, K., "Chromium removal by using modified agricultural wastes." National Conference on Frontiers in Research and Development in Agriculture, Biomedical, Chemical and Pharmaceutical Science, Mewar University, Chittorgarh, Rajasthan held on 4th March 2016.
6. Bisht, R., Agarwal, M., and Singh, K., "Removal of heavy metals from wastewater using modified agricultural adsorbents," International Conference on Recent Trends in Engineering and Material Sciences, Jaipur National University, Jaipur, Rajasthan on 17-19 March 2016.
7. Chaturvedi, E., Rajput, N. S., Upadhyaya, S., Pandey, P. K., "Experimental study and mathematical modeling for extrusion using high density polyethylene." 5th international Conference on Materials Processing and Characterization, organized by GRIET and MANIT Bhopal at Hyderabad on 12-13 March, 2016 published by Elsevier in Materials Today Proceedings, 85.
8. Singh, J. K., Upadhyaya, S., Chaurasia, S. P., "Effects of operating parameters on energy consumption and permeate flux in vacuum membrane distillation for desalination", in "CHEMCON-2015", the 68th Annual Session of Indian Institute of Chemical Engineers, IIT Guwahati, 27-30 December, 2015.
9. Singh, J. K., Upadhyaya, S., Chaurasia, S. P., Baghel, R., "Energy Consumption Study on Vacuum Membrane distillation for Desalination", International Conference on Clean India Technology-Role of Desalination and Water Purification (InDA-APDA 2016) organized by Indian Desalination Association at Chennai 11-13 February, 2016.
10. Kataria, G., Singh, K., Sharma, S., "Optimization of product purity in reactive distillation column", CHEMCON-2015, 27-30 December 2015, IIT Guwahati.
11. Naidu, M. V. D., George, S., "Synthesis and Characterization of Surface Modified Zeolite X as Adsorbent for Nitrate Removal", Proceedings of the Second International Conference on Materials Science and Technology - ICMST 2016, 5th-8th June, St. Thomas College, Pala, Kottayam, Kerala, pp 115-116.
12. Mondal, P., George, S., "Assessment of Defluoridation of Drinking Water Using Novel Adsorbent Nano-

- Crystalline Magnesium Amended Hydroxyapatite (M-HAP)", Proceedings of the AICHE 2015 Spring Meeting & 11th Global Congress on Process Safety, 18th Topical Conference on Refinery Processing (198), Environmental and Water Solutions II Cont'd (198c) (ISBN: 978-0-8169-1089-2).(2015), Austin, Texas, USA.
13. Pundir, A.S., Singh, K., "Design of Adaptive control for Oxidation of o-xylene in Packed Bed Reactor: A highly Sensitive System," CHEMCON-2015, 27-30 December 2015, IIT Guwahati.
 14. Pundir, A.S., Singh, K., "Study of Transient Behavior of One Dimensional Packed Bed Reactor for High Temperature Reaction System," CHEMCON-2015, 27-30 December 2015, IIT Guwahati.
 15. Bisht, R., Agarwal, M., Singh, K., "Removal of Chromium from waste water using agricultural waste materials – A review". International Conference on Green Initiatives in Science and Technology held on 15th, January, 2015 at Manav Rachna College of Engineering, Faridabad, New Delhi.
 16. Bisht, R., Agarwal, M., Singh, K., "Removal of heavy metals from waste water using modified agricultural adsorbents." International Conf. on Recent Trends in Engineering and Material Sciences held on 17-19 March 2016 at JNU Jaipur Rajasthan.
 17. Upadhyaya, S., Singh, K., Singh, J. K., Chaurasia, S.P., "Robust Design Optimization on Vacuum Membrane Distillation for Desalination", 2nd International Conference on Desalination using Membrane Technology, Singapore, 26 - 29 July, 2015.
 18. Dubey, S., Agarwal, M., Gupta. A. B., "A comparative study on use of alum and PAC in Nalgonda Technique for Defluoridation". International Conference on Computational Technologies held on 26-27 March, 2016 at Poddar Institute of Management, Jaipur.
 19. Dubey, S., Aagrwal, M., Gupta. A. B., "Recent Developments in Defluoridation of Drinking water in India". International Conf. on Water Environment and Energy Society held 15-18, March 2016 at AISECT University, Bhopal.
 20. Dubey, S., Baghel, R., Upadhyaya, S., Chaurasia, S. P., "Effects of Operating Parameters on Permeate Flux in Vacuum Membrane Distillation", 2nd International Conference on Desalination using Membrane Technology, Singapore, 26 - 29 July 2015.
 21. Saharan, V. K., Pandit, A. B., "Hydrodynamic cavitation: An effective advanced technology for the treatment of industrial wastewater", 2nd Asia-Oceania Sonochemical Society conference, 25-28 July 2015, University of Nottingham, Malaysia.

List of Papers Presented at National Conferences

1. Maheshwari, M., Vyas, S. and Vyas, R. K., "Removal of Ciprofloxacin Hydrochloride from its aqueous solution at different pH and their kinetic studies using Fenton process", National Conference on Advanced Oxidation Processes AOP 2015 held at Dr SSB University Institute of Chemical Engineering and Technology & Energy Research Centre, Panjab University, Chandigarh during October 15-16, 2015.
2. Sharma, P., Agarwal, M., Gupta, A.B., Chaurasia, S. P., and George, S., "Comparative Analysis of Alum as a Defluoridation Agent in Batch and Continuous Process", National conference on Recent Advances in Chemical Science (RAICS), held on 21-23 August, 2015 at MNIT Jaipur.
3. Sharma, K., and Vyas, R. K., "Adsorption of Multicomponent Dye Mixture: A Brief Review", CHEMCON 2015 held at Guwahati during December 27-30, 2015
4. Sharma, K., Vyas, R. K., and Vyas, A., Singh, S.K., "Conversion of Waste PVC into Fuel: A Brief Review", CHEMCON 2015 held at Guwahati during December 27-30, 2015.
5. Sharma, K., Vyas, S., and Vyas, R. K., "Advanced Oxidation Processes for Wastewater Treatment: A BRIEF



REVIEW”, National Conference on Advanced Oxidation Processes AOP-2015, held at Dr SSB University Institute of Chemical Engineering and Technology & Energy Research Centre, Panjab University, Chandigarh during 15-16 October, 2015.

6. Sujan, A, and Vyas, R. K., “Combined Advance Oxidation Process and Biological Treatment of Waste Water for Reuse, Accepted for Poster presentation at National Conference on Advanced Oxidation Processes AOP–2015”, held at Dr SSB University Institute of Chemical Engineering and Technology & Energy Research Centre, Panjab University, Chandigarh during 15-16 October, 2015.
7. Sujan, A, and Vyas, R. K., “Contradictory results of Gas hold-up, Mass transfer Coefficient and Interfacial area in Bubble Column at Elevated Pressures and Temperature: A Review”, CHEMCON 2015 held at Guwahati during 27-30 December, 2015.

Membership of Professional Bodies

S. No.	Name of Faculty	Membership
1.	Dr. Madhu Agarwal	<ul style="list-style-type: none">• Life Member of IChE (LM40031)• Life member of Indian Desalination Association
2	Dr. Dipaloy Datta	<ul style="list-style-type: none">• Life Member, Indian Desalination Association (InDA), LM - 388, Jan, 2016 Onwards.• Member (Awarded), American Chemical Society (ACS). 2015-2018.
3	Dr. U. K. Arun Kumar	<ul style="list-style-type: none">• Life Member of Indian Institute of Chemical Engineers (LM52074)• Life member of Indian Desalination Association (LM-389)
4	Mr. Shiv Om Meena	<ul style="list-style-type: none">• Life Member of Indian Desalination Association• Life Member of Indian Institute of Chemical Engineers• Life Member of Indian Society for Technical Education
5	Dr. V. Subbaramaiah	<ul style="list-style-type: none">• Life Member of Indian Desalination association• Life Member of Indian Institute of Chemical Engineers
6	Dr. Kailash Singh	<ul style="list-style-type: none">• Life Member of Indian Institute of Chemical Engineers• Life Member of Indian Desalination association• Life Member of Indian Society for Technical Education

DEPARTMENT OF CHEMISTRY

Research Papers Published in International Journals:

1. “Eco friendly synthesis and characterization of halo substituted Benzyl alcohols”, R. Saharan and J. Joshi, International Journal of Scientific Research, Vol. 5, 245-246, 2016.
2. "First example of metallacarborane complex with cyclobutenylidene ligand"
3. D.I Dyachihin, F. M Dolgushin, I. A. Godovikov, N. K. Satrawala, R. K Joshi, I. T. Chizhevsky, Russian Chemical Bulletin, 2016, (3), 844.
4. Devi, N.; Singh, D.; Honey; Mor, S.; Chaudhary, S.; Rawal, R. K.; Kumar, V.; Chowdhury, A. K.; Singh, V. “In(OTf)₃ catalysed an expeditious synthesis of β -Carboline-imidazo[1,2-a]pyridine and imidazo[1,2-a]pyrazine Conjugates” RSC Advances, 2016, 6, 43881-42891. (Impact factor: 3.84)
5. Yadav, L.; Tiwari, M. K.; Shyamlal, B. R. K.; Mathur, M.; Swami, A. K.; Puri, S. K.; Naikade, N. K.;

- Chaudhary, S. "Synthesis and Antimalarial Activity of Novel Bicyclic and Tricyclic Aza-peroxides" RSC Advances, 2016, 6, 23718-23725. (Impact factor: 3.84)
- Chaudhary, S.; Naikade, N. K.; Tiwari, M. K.; Yadav, L.; Shyamlal, B. R. K.; and Puri, S. K. "New orally active diphenylmethyl-based ester analogues of dihydroartemisinin: Synthesis and antimalarial activity against multidrug-resistant Plasmodium yoelii nigeriensis in Swiss mice", Bioorg. Med. Chem. Lett. 2016, 26(6), 1536-1541. (Impact factor: 2.420)
 - Chaudhary, S.; Sharma, V.; Jaiswal, P. K.; Gaikwad, A. N.; Sinha, S. K.; Puri, S. K.; Sharon, A.; Maulik, P. R.; Chaturvedi, V. "Stable tricyclic antitubercular ozonides derived from Artemisinin", Org. Lett., 2015, 17 (20), 4948-4951. (Impact factor: 6.364)
 - Singh, S.; Panwar, R.; Althagafi, I.; Sharma, V.; Chaudhary, S.; Pratap, R. "Base mediated regioselective synthesis of highly functionalized conjugated enones", Tetrahedron Lett., 2015, 56(37), 5203-5208. (Impact factor: 2.379)
 - A Simple One Step Hydrothermal Route towards Water Solubilization of Carbon Quantum Dots from Soya-Nuggets for Imaging Applications. Dubey, P.; Tripathi, K. M.; Mishra, R.; Bhati, A.; Singh, A.; Sonkar, S. K., RSC Adv. 2015, 5, 87528-87534.
 - Large-scale Synthesis of Soluble Graphitic Hollow Carbon Nanorods with Tunable Photoluminescence for the Selective Fluorescent Detection of DNA. Tripathi, K. M.; Sonker, A. K.; Bhati, A.; Bhuyan, J.; Singh, A.; Singh, A.; Sarkar, S.; Sonkar, S. K. New J. Chem. 2016, 40, 1571-1579.
 - From The Traditional Way of Pyrolysis to Tunable Photoluminescent Water Soluble Carbon nano-Onions for Cells Imaging and Selective Sensing of Glucose, Tripathi, K. M.; Bhati, A.; Singh, A.; Gupta, N. R.; Verma, S.; Sarkar, S.; Sonkar, S. K. RSC Adv. 2016, 6, 37319-37340.

List of Papers Presented at International Conferences:

- Current challenges in drug discovery research 2015 (CCDDR-2015, Nov. 23rd to 25th 2015 organized by Department of Chemistry, MNIT, Jaipur).
- Jyoti Joshi, Bidya S. Joshi and Yogesh Duchaniya (Nov, 2015), "Synthesis and studies of vanadium complexes with benzoyl hydrazones" 23rd-25th Nov, 2015 Abstracts of papers ISBN No. 978-93-84869-93-9 (PP-90) International Conference on "Current Challenges in Drug Discovery Research CCDDR-2015", MNIT Jaipur-302017, Rajasthan, India.
- Manoj Kumar, Bidya S. Joshi and Jyoti Joshi (Nov, 2015), "Lanthanum complexes of 2-(5-aryl-1-,2,4-triazin-3-yl)thio) acetic acid: Synthesis, characterization and antimicrobial activity" 23rd-25th Nov, 2015 Abstracts of papers ISBN No. 978-93-84869-93-9 (PP-99) International Conference on "Current Challenges in Drug Discovery Research CCDDR-2015", MNIT Jaipur-302017, Rajasthan, India.
- Ritu Saharan, P. S. Verma, I. K. Sharma and Jyoti Joshi (Nov, 2015), "Green Synthesis and characterization and antibacterial studies of 1-(4-hydroxy-3-methoxy phenyl) ethanol and 4-hydroxy-3-methoxy benzyl alcohol" 23rd-25th Nov, 2015 Abstracts of papers ISBN No. 978-93-84869-93-9 (PP-132) International Conference on "Current Challenges in Drug Discovery Research CCDDR-2015", MNIT Jaipur-302017, Rajasthan, India.
- Sukhbir Kumari, Ansu Dandia and Jyoti Joshi (Nov, 2015), "An Efficient and Rapid Multicomponent 1,3-dipolar cycloaddition of Azomethine Ylides with Dipolarophiles: A faster access to spirothiapyrrolizidines" 23rd-25th Nov, 2015 Abstracts of papers ISBN No. 978-93-84869-93-9 (PP-148) International Conference on "Current Challenges in Drug Discovery Research CCDDR-2015", MNIT Jaipur-302017, Rajasthan, India.
- Yadav, L.; Tiwari, M. K.; Bharti Shyamlal, R. K. and Chaudhary, S. (Nov, 2015), "New Piperazine-based Organocatalysis for Intramolecular Direct Arylation Reactions" 23rd-25th Nov, 2015 Abstracts of papers ISBN



- No. 978-93-84869-93-9 (PP-100) International Conference on “Current Challenges in Drug Discovery Research CCDDR-2015”, MNIT Jaipur-302017, Rajasthan, India.
7. Yadav, L.; Tiwari, M. K.; Bharti Shyamlal, R. K.; Mathur, M.; Swami, A. K.; Naikade, N. K. and Chaudhary, S. (Nov, 2015), “Novel 1, 2-dioxa-4-aza-indenones and 1, 2-dioxa-4-aza-fluorenones: Synthesis and there in vitro Antimalarial Activity” 23rd-25th Nov, 2015 Abstracts of papers ISBN No. 978-93-84869-93-9 (PP-101) International Conference on “Current Challenges in Drug Discovery Research CCDDR-2015”, MNIT Jaipur-302017, Rajasthan, India.
 8. Tiwari, M. K.; Yadav, L.; Bharti Shyamlal, R. K. and Chaudhary, S. (Nov, 2015), “Development of New Organo-catalysed Intermolecular Direct Arylation of Arenes with haloarenes/ halo-heteroarenes” 23rd-25th Nov, 2015 Abstracts of papers ISBN No. 978-93-84869-93-9 (PP-114) International Conference on “Current Challenges in Drug Discovery Research CCDDR-2015”, MNIT Jaipur-302017, Rajasthan, India.
 9. Tiwari, M. K.; Naikade, N. K.; Puri, S.K.; Singh, C. and Chaudhary, S. (Nov, 2015), “New Orally Active Diphenylmethyl-based Ester Analogues of Dihydroartemisinin: Synthesis and Antimalarial Assessment against multidrug-resistant Plasmodium Yoelii Nigeriensis in Swiss mice” 23rd-25th Nov, 2015 Abstracts of papers ISBN No. 978-93-84869-93-9 (PP-115) International Conference on “Current Challenges in Drug Discovery Research CCDDR-2015”, MNIT Jaipur-302017, Rajasthan, India.
 10. Tiwari, M. K.; Naikade, N. K.; Puri, S.K. and Chaudhary, S. (Nov, 2015), “Synthesis & Antimalarial activity of novel Artemisinin-1, 2, 4-Trioxane hybrids” 23rd-25th Nov, 2015 Abstracts of papers ISBN No. 978-93-84869-93-9 (PP-116) International Conference on “Current Challenges in Drug Discovery Research CCDDR-2015”, MNIT Jaipur-302017, Rajasthan, India.
 11. Jaiswal, P. K. and Chaudhary, S. (Nov, 2015), “Organocatalytic, Natural Product Inspired C-C bond forming domino approaches: Application towards the synthesis of bioactive heterocycles” 23rd-25th Nov, 2015 Abstracts of papers ISBN No. 978-93-84869-93-9 (SIL-48) International Conference on “Current Challenges in Drug Discovery Research CCDDR-2015”, MNIT Jaipur-302017, Rajasthan, India.
 12. Jaiswal, P. K.; Sharma, V. and Chaudhary, S. (Nov, 2015), “Development of highly efficient one pot green synthetic protocol for the construction of benzo [1, 4] oxazin-2-one incorporated novel Antiplatelet agents” 23rd-25th Nov, 2015 Abstracts of papers ISBN No. 978-93-84869-93-9 (PP-128) International Conference on “Current Challenges in Drug Discovery Research CCDDR-2015”, MNIT Jaipur-302017, Rajasthan, India.
 13. Jaiswal, P. K.; Sharma, V.; Gaikwad, A. N.; Sinha, S. K.; Puri, S. K.; Sharon, A.; Maulik, P. R.; Chaturvedi, V. and Chaudhary, S. (Nov, 2015), “An expedient Synthesis of Stable Tricyclic Antitubercular Ozonides Derived from Artemisinin” 23rd-25th Nov, 2015 Abstracts of papers ISBN No. 978-93-84869-93-9 (PP-129) International Conference on “Current Challenges in Drug Discovery Research CCDDR-2015”, MNIT Jaipur-302017, Rajasthan, India.
 14. Bharti Shyamlal, R. K.; Yadav, L.; Tiwari, M. K. and Chaudhary, S. (Nov, 2015), “Silver-Catalyzed Highly Regio-selective modified Castro-Stephens Reaction: Application to the Synthesis of Substituted-Isocoumarins” 23rd-25th Nov, 2015 Abstracts of papers ISBN No. 978-93-84869-93-9 (PP-80) International Conference on “Current Challenges in Drug Discovery Research CCDDR-2015”, MNIT Jaipur-302017, Rajasthan, India.
 15. Bharti Shyamlal, R. K.; Yadav, L.; Tiwari, M. K.; Mathur, M.; Swami, A. K.; and Chaudhary, S. (Nov, 2015), “Synthesis of Novel Dimeric Aporphines and their Acetylcholinesterase Inhibitory Activity” 23rd-25th Nov, 2015 Abstracts of papers ISBN No. 978-93-84869-93-9 (PP-81) International Conference on “Current Challenges in Drug Discovery Research CCDDR-2015”, MNIT Jaipur-302017, Rajasthan, India.
 16. Sharma, R.; Jaiswal, P. K. and Chaudhary, S. (Nov, 2015), “A metal free domino approach towards the microwave assisted direct synthesis of novel 2-oxo-benzo-(1, 4)-oxazine analogues as potential antimicrobial agents” 23rd-25th Nov, 2015 Abstracts of papers ISBN No. 978-93-84869-93-9 (PP-151)

International Conference on “Current Challenges in Drug Discovery Research CCDDR-2015”, MNIT Jaipur-302017, Rajasthan, India.

17. Sharma, R.; Jaiswal, P. K. and Chaudhary, S. (Nov, 2015), “A new insight towards the development of green synthetic protocol for Chalcone derived pharmaceutically demanding N-heterocycles and their biological activity evaluation” 23rd-25th Nov, 2015 Abstracts of papers ISBN No. 978-93-84869-93-9 (PP-152) International Conference on “Current Challenges in Drug Discovery Research CCDDR-2015”, MNIT Jaipur-302017, Rajasthan, India.
18. Sharma, V.; Jaiswal, P. K. and Chaudhary, S. (Nov, 2015), “Studies towards Benzo (1, 4) oxazine-2-one based novel antifungal agents: Design, Synthesis and there in vitro antifungal activities” 23rd-25th Nov, 2015 Abstracts of papers ISBN No. 978-93-84869-93-9 (PP-181) International Conference on “Current Challenges in Drug Discovery Research CCDDR-2015”, MNIT Jaipur-302017, Rajasthan, India.
19. Sharma, V.; Jaiswal, P. K. and Chaudhary, S. (Nov, 2015), “Microwave-assisted green synthesis of novel functionalized Benzo (1, 4) oxazine analogues and their Anti-oxidant activity” 23rd-25th Nov, 2015 Abstracts of papers ISBN No. 978-93-84869-93-9 (PP-182) International Conference on “Current Challenges in Drug Discovery Research CCDDR-2015”, MNIT Jaipur-302017, Rajasthan, India.
20. Mahesh Kumar Paliwal and Sumanta Kumar Meher*, Flower-like ZnO for efficient removal of dye-wastewater pollutants, "International Conference on Frontiers at the Chemistry Allied Sciences Interface (FCASI-2016)" 25-26 April 2016, Organized by Department of Chemistry, University of Rajasthan, Jaipur, India.
21. Mahesh Kumar Paliwal and Sumanta Kumar Meher*, Morphology-Tuned Ni(OH)₂ Mesoflowers for Waste Water Treatment, "International Conference on Multi Functional Materials for Future Applications (ICMFA-2015)" 27-29 October 2015, Organized by Department of Chemistry, IIT BHU, India.
22. Anshu Bhati, Anupriya Singh, Prashant Dubey, Sumit K. Sonkar, Water soluble carbon dots: hydrothermally synthesized from Soya-nuggets for imaging application International conference on Condensed Matter & Applied Physics at Engineering College Bikaner, from 30th to 31st October, 2015.

List of Papers Presented at National Conferences

1. National conference on Frontiers at the chemistry Allied Sciences Interface (FCASI-2015, March 13th to 14th 2015 organized by Department of Chemistry, UOR, Jaipur
2. National conference on Recent advancement in chemical sciences, RAICS, 2015 August 21st to 23rd, 2015 organized by Department of Chemistry, MNIT, Jaipur.
3. Jyoti Joshi and Tanuja Kumari, Synthesis of some novel boron complexes derived from catechol and nitrogen/oxygen donor ligands, "National Conference on Recent Advancements in Chemical Sciences (RAICS-2015)" 21-23 August 2015, Organized by Malaviya National Institute of Technology (MNIT) Jaipur, Rajasthan, India.
4. Jyoti Joshi, B. S. Joshi and Tanuja Kumari, Synthesis and characterization of novel lanthanum(III) complexes of Betti base, "National Conference on Frontiers at Chemistry Allied Sciences Interface (FCASI-2015)" 13-14 March 2015, Center of Advanced Study, Department of Chemistry, University of Rajasthan, Jaipur, India.
5. Ritu Saharan, P. S. Verma, I. K. Sharma and Jyoti Joshi, Eco-friendly synthesis and characterization of 2-phenylethanol, "National Conference on Frontiers at Chemistry Allied Sciences Interface (FCASI-2015)" 13-14 March 2015, Center of Advanced Study, Department of Chemistry, University of Rajasthan, Jaipur, India.
6. Mahesh Kumar Paliwal and Sumanta Kumar Meher*, Ni(OH)₂ Mesoflowers for Water Treatment, "National



Conference on Recent Advancements in Chemical Sciences (RAICS-2015)" 21-23 August 2015, Organized by Malaviya National Institute of Technology (MNIT) Jaipur, Rajasthan, India.

7. Anshu Bhati, Anupriya Singh and Sumit K. Sonkar , Large scale-fabrication of self-passivated tunable-photoluminescent graphitic Carbon nanorods for selective fluorescent detection , National conference recent advancement in chemical sciences (RAICS-2015) 21st to 23rd august organised by department of chemistry MNIT Jaipur.

Books Published

S. No.	Title	Author	Publisher
1.	Carbon dots from pollutant soot: A cleaner approach towards clean environment. Smart Materials for Waste Water Applications, 127-154, 2016.	Kumud Malika Tripathi, Nidhi Rani Gupta and Sumit Kumar Sonkar	Wiley-Scrivener Publishing UK
2.	Waste derived nano-carbons: A cleaner approach towards water remediation. Nanomaterials for Water Remediation,	Kumud Malika Tripathi, Ankit Tyagi, Amit Kumar Sonker and Sumit Kumar Sonkar	Smithers Rapra Publishing UK, 2016, (Accepted).

Membership of Professional Bodies

S. No.	Name of Faculty	Membership
1.	Dr. Jyoti Joshi	ISTE, Life member
2.	Dr. Jyoti Joshi	ISC, Life Member
3.	Dr. Sandeep Chaudhary	National Advisory Board Member, 22 nd ISCBC-2016 (6 th - 8 th Feb, 2016)

Any other details worth publication in Annual Report 2015-16

S. No.	Name of Faculty	Particulars
1.	Dr. Jyoti Joshi	Convener, BLITZSCHLAG, 2015 techno cultural event of the Institute.
2.	Dr. Jyoti Joshi	Coordinator, CACS upto June 2015.
3.	Dr. Jyoti Joshi	HoD, Department of Chemistry from June 2015
4.	Dr. Jyoti Joshi	Member editorial team of MNITJ news (the quarterly mnit news letter)
5.	Dr. Jyoti Joshi	Faculty Coordinator, spiritual club.
6.	Dr. Jyoti Joshi	Coordinator of panel discussion on Yoga and its relevance in present scenario on 21 st June 2015 on International day of Yoga
7.	Dr. Jyoti Joshi	Convened an event on technology for peace on Nov. 5 th 2015. The ambassador of peace Mr. Prem Rawat was speaker of the event
8.	Dr. Sandeep Chaudhary	One young Scientist is currently working in the department of Chemistry <u>DST-SERB National Post Doctoral Fellow</u> March, 2016-Present: Dr. Jaggi Lal, PhD (Jiwaji University, Gwalior)

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Research Papers Published in International Journals:

1. Smita Naval, Vijay Laxmi, Muttukrishnan Rajarajan, Manoj Singh Gaur and Mauro Conti: “Employing Program Semantics for Malware Detection”, IEEE Transactions on Information Forensics and Security (Accepted).
2. Rimpay Bishnoi, Vijay Laxmi, Manoj Singh Gaur, José Flich, Francisco Triviño: A Brief Comment on “A Complete Self-Testing and Self-Configuring NoC Infrastructure for Cost-Effective MPSoCs” [ACM Transactions on Embedded Computing Systems 12 (2013) Article 106]. ACM Trans. Embedded Computing Systems 14(1): 2:1-2:9 (2015).
3. Parvez Faruki, Ammar Bharmal, Vijay Laxmi, Vijay Ganmoor, Manoj Singh Gaur, Mauro Conti, Muttukrishnan Rajarajan: “Android Security: A Survey of Issues, Malware Penetration, and Defenses.” IEEE Communications Surveys and Tutorials 17(2): 998-1022 (2015).
4. Manoj Bohra, MS Gaur, V. Laxmi, Masoud Daneshtalab, Ko Seok-Bum: “A Novel Highly Adaptive Routing for Networks-on-Chip”, Electronic Letters (Accepted).
5. Rimpay Bishnoi, Vijay Laxmi, Manoj Singh Gaur, Mark Zwolinski: “Resilient Routing Implementation in 2D MeshNoC”, Microelectronics Reliability (Accepted).
6. Chhagan Lal, Vijay Laxmi, Manoj Singh Gaur, Seok-Bum Ko: “Bandwidth-aware routing and admission control for efficient video streaming over MANETs”. Wireless Networks 21(1): 95-114 (2015).
7. Parvez Faruki, Vijay Laxmi, Ammar Bharmal, Manoj Singh Gaur, Vijay Ganmoor: “AndroSimilar: Robust Signature for Detecting Variants of Android Malware. Journal of Information Security and Applications 22: 66-80 (2015).
8. Vijay Laxmi, Chhagan Lal, Manoj Singh Gaur, Deepanshu Mehta: “JellyFish attack: Analysis, detection and countermeasure in TCP-based MANET”. Journal of Information Security and Applications. 22: 99-112 (2015).
9. Smita Naval, Vijay Laxmi, M S Gaur, Vinod P. Poster Paper: “An efficient block-discriminant identification of packed malware”. Sadhana Vol. 40, Part 5, August 2015, pp. 1435–1456, Indian Academy of Sciences.
10. Gaurav Singal, MS Gaur, V. Laxmi: “MORAISM: MOBility prediction with LInk Stability based Multicast routing protocol in MANETs”, Wireless Networks (Accepted).
11. A. Bijalwan, M. Wazid, E. S. Pilli, and R. C. Joshi, “Forensics of Random-UDP Flooding Attacks,” Journal of Networks, vol. 10, no. 5, pp. 287-293, 2015.
12. M Sharma, D Gopalani, M Tripathi, "An Approach for Predicting Related Word for the Hindi Language" , International Journal of Computer Applications Volume : 123 / 29-34 / 2015.
13. Santosh Kumar Vipparthi, Subramanian Murala, Anil Balaji Gonde, Q. M. Jonathan Wu, Local Directional Mask Maximum Edge Patterns for Image Retrieval and Face Recognition, IET Computer Vision, (IEEE, IET), (2015) (Impact Factor 0.963).
14. Santosh Kumar Vipparthi, Subrahmanyam Murala, S. K. Nagar and A. B. Gonde “Local Gabor Maximum Edge Position Octal Patterns for Image Indexing and Retrieval”, Neurocomputing, 167, 336:345. Elsevier (Accepted) (Impact Factor 2.083).
15. Santosh Kumar Vipparthi, S. K. Nagar, "Dual directional Multi-Motif XOR Patterns: A new Descriptor for Image Indexing and Retrieval", International Journal for Light and Electron Optics, Elsevier (Accepted) 126 (15), 1467-1473 (Impact Factor 0.677).
16. Santosh Kumar Vipparthi, S. K. Nagar, "Integration of Color and Local Derivative Pattern features for Content-Based Image Indexing and Retrieval", Journal of the Institution of Engineers (India): Series B, 96(3): 251:263, Springer (Accepted 2014). (DOI: 10.1007/s40031-014-0153-5)
17. Santosh Kumar Vipparthi, S. K. Nagar, “Directional Local Ternary Patterns for Multimedia Image Indexing and



- Retrieval”, International Journal of Signal and Imaging Systems Engineering (IJSISE), 8 (3), 137-145, Inderscience.
18. Yogesh Kumar Meena, Dinesh Gopalani. “Optimal Cluster Priority Based Sentence Ranking for Efficient Extractive Text Summaries”. Electrical & Computer Engineering: An International Journal (ECIJ), Wireilla, Volume 4:1, 36-43, 2015.
 19. Yogesh Kumar Meena, Dinesh Gopalani (2016): Efficient Voting-Based Extractive Automatic Text Summarization Using Prominent Feature Set, IETE Journal of Research, DOI: 10.1080/03772063.2015.1136574 pp 1-9, 2016.
 20. P.Dadhich, K.Dutta and M.C.Govil, “Detection of Slanders through Euclidean Distance Similarity Assessment for Securing E-commerce Agents in P2P Decentralized Electronic Communities”, International Journal of Security and Networks, (IJSN), Inderscience, 2015.
 21. M. M. Sharma, J. K. Deegwal, M. C. Govil, and Ashok Kumar “Compact Printed Ultra-wideband Antenna with Two Notched Stop Bands for WiMAX and WLAN”, International Journal of Applied Electromagnetic and Mechanics, vol. 47, no. 2, pp. 523-532, 2015.
 22. J. K. Deegwal, M. C. Govil, and M. M. Sharma “CPW-Fed Parasitically Loaded Circular Disc Monopole Antenna for WLAN Applications”, International Journal of Scientific & Engineering Research, vol. 6, no. 4, pp. 1002-1005, April 2015.
 23. J. K. Deegwal, M. C. Govil, and M. M. Sharma “An Extremely Wideband Printed Monopole Antenna with Dual Notched Stop Bands”, International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, vol. 4, no. 5, May 2015.
 24. J. K. Deegwal, M. C. Govil, and M. M. Sharma “Dual-Band Printed Circular Disc Antenna with Two Parasitic Stubs for Wireless Applications”, International Journal of Microwave and Optical Technology, vol. 10, no. 5, Sept. 2015.
 25. M. M. Agarwal, M. C. Govil, M. Sinha, “Fuzzy Logic Controlled Energy Efficient Routing in Mobile Ad-Hoc Networks”, International Journal of Computer Networks and Wireless Communications (IJCNWC), Vol.5, No 4, pp. 556-561, 2015
 26. M. M. Agarwal, M. C. Govil, M. Sinha, "DPAODV–A Dynamic Probabilistic-based Energy Efficient Routing Protocol for MANETs", International Journal of Applied Engineering Research (IJAER), ISSN 0973-4562, Vol. 11, No. 6, pp. 4023-4030, 2016
 27. Prakash Choudhary and Neeta Nain, "Adaptive Semantics Web-based Approach for E-education using the Static Annotated Corpus" , International Journal of Digital Information and Wireless Communications (IJDWC) Volume :6/ 56-62 / 2015 ISBN: 2225-658X
 28. Prakash Choudhary and Neeta Nain, " An Open Linguistic Structure for Multidisciplinary Research on Urdu Handwritten Text Image" , Transaction Asian Language Low Resource Image Processing Volume :15 / 4 / 2015
 29. Jagadeesh Kakarla, Banshidhar Majhi and Ramesh Babu Battula, "IAMMAC: an interference-aware multichannel MAC protocol for wireless sensor networks", International Journals of Communication Systems, Vol. 29, Issue 4, Pages 801-822, Wiley, March 2016
 30. Jagadeesh Kakarla, Banshidhar Majhi and Ramesh Babu Battula "Comparative Analysis of Routing Protocols in Wireless Sensor Actor Networks: A Review", International Journal of Wireless Information and Networks, Vol-22, Issue-3, pp: 220-239, Jul' 2015.
 31. Jagadeesh Kakarla, Banshidhar Majhi and Ramesh Babu Battula "A Delay and Energy aware Reliable Coordination Mechanism for WSN", International Journal of Communication Systems, Wiley, 2016/ DOI: 10.1002/dac.3121

List of Papers Presented at International Conferences:

1. Lovely Sinha, Shweta Bhandari, Parvez Faruki, Vijay Laxmi, Manoj Singh Gaur and Mauro Conti: FlowMine: Android App Analysis via Data Flow, 13th IEEE Annual Consumer Communications & Networking Conference (CCNC-2016), Las Vegas, 9-12 January, 2016
2. B. Buddhadev, MS Gaur, V. Laxmi: Android Component Vulnerabilities: Proof of Concepts and Mitigation, 30th International Conference on Information Networking (ICOIN-2016), Kota Kinabalu, Malaysia, January 13-15, 2016
3. Rimpay Bishnoi, Vijay Laxmi, Manoj Singh Gaur, José Flich: d2-LBDR: distance-driven routing to handle permanent failures in 2D mesh NOCs. DATE 2015: 800-805
4. Anil Saini, MS Gaur, Vijay Laxmi, Priyadarsi Nanda: sandFOX: secure sandboxed and isolated environment for firefox browser. SIN 2015: 20-27
5. Shweta Bhandari, Rishabh Gupta, Vijay Laxmi, Manoj Singh Gaur, Akka Zemmari, Maxim Anikeev: DRACO: DRoid analyst combo an android malware analysis framework. SIN 2015: 283-289
6. Jyoti Gajrani, Jitendra Sarswat, Meenakshi Tripathi, Vijay Laxmi, Manoj Singh Gaur, Mauro Conti: A robust dynamic analysis system preventing SandBox detection by Android malware. SIN 2015: 290-295
7. Bharat Buddhdev, Rati Bhan, Manoj Singh Gaur, Vijay Laxmi: DynaDroid: dynamic binary instrumentation based app behavior monitoring framework. SIN 2015: 322-325
8. MS Gaur, V. Laxmi, Mark Zwolinski, Manoj Kumar, Niyati Gupta, Ashish Sharma: Network-on-chip: Current issues and challenges. VDAT 2015: 1-3
9. Niyati Gupta, Manoj Kumar, V. Laxmi, MS Gaur, Mark Zwolinski: σ LBDR: Congestion-aware logic based distributed routing for 2D NoC. VDAT 2015: 1-6
10. Ashish Sharma, Prachi Upadhyay, Ruby Ansar, Vijay Laxmi, Lava Bhargava, Manoj Singh Gaur, Mark Zwolinski: A framework for thermal aware reliability estimation in 2D NoC. VDAT 2015: 1-6
11. Sonal Yadav, V. Laxmi, MS Gaur, Megha Bhargava: C2-DLM: Cache coherence aware dual link mesh for on-chip interconnect. VDAT 2015: 1-2
12. Rimpay Bishnoi, Vijay Laxmi, Manoj Singh Gaur, Radi Husin Bin Ramlee, Mark Zwolinski: CERI: Cost-Effective Routing Implementation Technique for Network-on-Chip. VLSI Design 2015: 59-64
13. R. Sharma, P. Sharma, P. Mishra, and E. S. Pilli, "Towards MapReduce Based Classification Approaches for Intrusion Detection," Sixth International Conf. on Cloud System and Big Data Engineering (Confluence 2016), Noida, India, Jan 2016.
14. A. K. Mishra, E. S. Pilli and M. C. Govil, "Forensic Investigation in Cloud Computing Environment," in Twelfth Annual IFIP WG 11.9 International Conference on Digital Forensics, New Delhi, India, Jan 2016
15. R. B. Battula, M. S. Gaur, D. Gopalani, and E. S. Pilli, "Path and Load Aware Routing Algorithm for Cognitive Radio Wireless Mesh Network," 18th Int'l Symp. on Wireless Personal Multimedia Communications (WPMC'15), Hyderabad, India, Dec 2015
16. A. Sharma, T. Goyal, E. S. Pilli, A. P. Mazumdar, M. C. Govil, R. C. Joshi, "A Secure Hybrid Cloud Enabled Architecture for Internet of Things," 2015 IEEE 2nd World Forum on Internet of Things (WF-IoT), Milan, Italy, Dec 2015, pp. 274-279
17. P. Sharma, R. Sharma, E. S. Pilli, and A. K. Mishra, "A Detection Algorithm for DoS Attack in the Cloud Environment," 8th Annual ACM India Conference, Ghaziabad, India, October 2015, pp. 107-110
18. V.K. Sharma and N. Mittal, "Cross Lingual Information Retrieval (CLIR): Review of Tools, Challenges and Translation Approaches," In Advances in Intelligent Systems and Computing, Springer, vol. 433, pp. 699-708, 2016.
19. Chandra Prakash, Kanika Gupta, Rajesh Kumar, and Namita Mittal. "Fuzzy Logic-Based Gait Phase Detection



- Using Passive Markers." In Proceedings of Fifth International Conference on Soft Computing for Problem Solving, pp. 561-572. Springer Singapore, 2016.
20. Chandra Prakash, Rajesh Kumar, Namita Mittal, "Vision Based Gait Analysis Techniques in Elderly life - Towards a better life", CSI communication, Computer Society of India issue, December, 2015.
 21. Chandra Prakash, Anshul Mittal, Rajesh Kumar, Namita Mittal. "Identification of gait parameters from silhouette images." In Contemporary Computing (IC3), 2015 Eighth International Conference on, pp. 190-195. IEEE, 2015.
 22. Chandra Prakash, Anshul Mittal, Rajesh Kumar, Namita Mittal. "Identification of spatio-temporal and kinematics parameters for 2-D optical gait analysis system using passive markers." In Computer Engineering and Applications (ICACEA), 2015 International Conference on Advances in, pp. 143-149. IEEE, 2015.
 23. L. K. Sharma, N. Mittal, "Dependency Extraction for Knowledge-based Domain Classification", International Conference on Natural Language Processing, Goa University, vol., no., 2015, pp. 50-164.
 24. L. K. Sharma, N. Mittal, "An Algorithm to Calculate Semantic Distance among Question Referents", International Bulletin of Mathematical Research, vol. 2, Issue 1, 2015, pp. 252-256, ISSN: 2394-7802.
 25. L. K. Sharma, N. Mittal, "Topic oriented semantic parsing", ICSC 2015 IEEE International Conference on Semantic Computing, pp.159-164, doi: 10.1109/ICOSC.2015.7050798.
 26. L. K. Sharma and N. Mittal, "Structural Feature and Named Entity Extraction Using Enhanced-CRF and Gazetteer", International Conference on Computational Technologies (PIC Jaipur), 2016.
 27. J. Nagpal, A. Vidyarthi, N. Mittal, "CLOM: Counting Label Occurrence Matrix for Feature Extraction in MR Images", In the proceedings of 2nd International Conference on Signal Processing and Communication (ICSC), IEEE, pp. 212-217, 2015.
 28. J. Nagpal, A. Vidyarthi, N. Mittal, "Counting Label Occurrence Matrix based Feature Extraction in frequency domain using Wavelet Decomposition", In the proceedings of International Conference on Futuristic Trends in Computational analysis and Knowledge management (INBUSH ERA), IEEE, 2015.
 29. Manish Jain, Dinesh Gopalani, "Testing Application Security With Aspects" 2016 International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT) by IEEE at Chennai, India / - / 2016
 30. Manish Jain, Dinesh Gopalani, "Use of Aspects for Testing Software Applications" 2015 IEEE International Advance Computing Conference (IACC) by IEEE at Bangalore, India / 282 - 285 / 2015
 31. Manish Jain, Dinesh Gopalani, "Memory Leakage Testing Using Aspects" 2015 International Conference on Applied and Theoretical Computing and Communication Technology (iCATccT) by IEEE at Bengaluru, India / 436-440 / 2015
 32. Avani Sharma, Tarun Kumar Goyal, Emmanuel S. Pilli, Arka Prokash Mazumdar, M. C. Govil and Ramesh C. Joshi, "A Secure Hybrid Cloud Enabled architecture for Internet of Things," WF-IoT 2015, pp. 274-279.
 33. Yogesh Kumar Meena, Dinesh Gopalani. "Improvement in Quality of Extractive Text Summaries using Modified Reciprocal Ranking", Proceedings of International Conference on ICT for Sustainable Development Volume 409 of the series Advances in Intelligent Systems and Computing pp 307-315, 2015
 34. Mukesh Kumar Gupta, Mahesh Chandra Govil, Girdhari Singh, Text-Mining based Predictive Model to Detect XSS Vulnerable Files in Web Applications", in 12th International Conference on Electronics, Energy, Environment, Communication, Computer, Control (Indicon), pp., 17-20, IEEE, New Delhi, India, 2015
 35. Mukesh Kumar Gupta, Mahesh Chandra Govil, Girdhari Singh, Priya Sharma, XSSDM: Towards detection and mitigation of cross-site scripting vulnerabilities in web applications", in 4th International Conference on Advances in Computing, Communications and Informatics (ICACCI), pp.2010-2015, Kerala, India, 2015
 36. M.K. Gupta, M.C.Govil, G.Singh, Predicting Cross-Site Scripting (XSS) Security Vulnerabilities in Web

- Applications", in 12th International Joint Conference on Computer Science and Software Engineering (JCSSE), pp. 162-167, 2015, IEEE, Songkhla, Thailand, 22-24 July
37. Rajat Goel, M. C. Govil, G Singh, "Security Requirements Elicitation and Assessment Mechanism (SecREAM)," in Advances in Computing, Communications & Informatics (ICACCI), 2015 International Conference, pp. 1862-1866, Kochi, INDIA, 2015.
 38. Rajat Goel, M. C. Govil, G Singh, "Imbibing Security in Software Development Life Cycle : A Review Paper" in 3rd Afro - Asian International Conference on Science, Engineering & Technology, pp. 593–599 , Bharuch, India, 2015.
 39. Kunwar pal, M. C. Govil, M. Ahmed, "A New Hybrid Approach for Overlay Construction in P2P Live Streaming," in Advances in Computing, Communications and Informatics (ICACCI), 2015 International Conference, pp. 431-437, Kochi, INDIA, 2015
 40. A. K. Mishra, E. S. Pilli, and M. C. Govil, "A Prototype Implementation of Log Acquisition in Private Cloud Environment," in 3rd International Conference on Eco-friendly Computing and Communication Systems (ICECCS), Mangalore, Karnataka, India, 2014, pp. 223-228
 41. A. Sharma, T. Goyal, E. S. Pilli, A. P. Mazumdar, M. C. Govil, R.C. Joshi, "A Secure Hybrid Cloud Enabled architecture for Internet of Things", in IEEE World Forum on Internet of Things (WF-IoT), Milan, Italy, 2015, pp. 274-279.
 42. Nanak Chand, Preeti Mishra, C. Rama Krishna, Emmanuel Shubhakar Pilli, Mahesh Chandra Govil, "A Comparative Analysis of SVM and its Stacking with other Classification Algorithm for Intrusion Detection", in ICACCA, At Tula's Institute, Dehradun, Uttarakhand (India).
 43. Tapas Badal, Neeta Nain, Mushtaq Ahmed, "Surveillance Video Synopsis While Preserving Object Motion Structure and Interaction" International Conference on Computer Vision and Image Processing) Conference Held at IIT-Roorkee on 26-28 Feb 2016. by Springer at IIT-Roorkee on 26-28 Feb 2016. / 4-8 / 2016
 44. Vishakha Sharma and Neeta Nain, "A Redefined Codebook Model for Dynamic Backgrounds" International Conference on Computer Vision & Image Processing CVIP2016, IIT Roorkee, Feb.26-28, 2016. by IEEE at IIT Roorkee / 1-4 / 2016
 45. Tapas Badal, Neeta Nain, Mushtaq Ahmed and Vishakha Sharma, "an Improved Multi-Layer Codebook Model to Eliminate Ghost Region " The Fifth National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics by IEEE at IIT-Patna // 2016
 46. Maroti Deshmukh, Neeta Nain, Mushtaq Ahmed, "An Improved (N, N)-Multi Secret Image Sharing Scheme Using Boolean XOR and Reverse Bits" International Conference on Recent Advances in Information Technology (RAIT-2016) by IEEE at IIT Dhanbad, India // 2016
 47. Maroti Deshmukh, Neeta Nain, Mushtaq Ahmed, "A Novel Approach of an (N, N) Multi Secret Image Sharing Scheme Using Additive Modulo" International Conference on Computer Vision and Image Processing) Conference Held at IIT-Roorkee on 26-28 Feb 2016. by Springer at IIT-Roorkee // 2016
 48. Maroti Deshmukh, Neeta Nain, Mushtaq Ahmed, "An (N, N)-Multi Secret Image Sharing Scheme Using Boolean XOR and Modular Arithmetic" The 30th IEEE International Conference on Advanced Information Networking and Applications (AINA-2016) by IEEE at , Crans-Montana, Switzerland. // 2016
 49. Shalini Yadav, Neeta Nain, " Fast Face Detection Based on Skin Segmentation and Facial Features" 11th IEEE International Conference on Signal Image Technology and Internet Based Systems by IEEE at Bangkok, Thailand / 663-668 / 2015
 50. Prakash Choudhary, Neeta Nain, Manindra Nehra, "A Framework for Compilation of Multi-Lingual Handwritten Database: Four Levels XML Ground-Truth" 11th IEEE International Conference on Signal Image Technology and Internet Based Systems by IEEE at Bangkok, Thailand / 649-654 / 2015
 51. Mohit Singh, Neeta Nain, Subhash Panwar, "Foreground Object Extraction Using Thresholding With



Automatic Shadow Removal " 11th IEEE International Conference on Signal Image Technology and Internet Based Systems by IEEE at Bangkok, Thailand / 655-662 / 2015

- 52. Tapas Badal, Neeta Nain, Mushtaq Ahmed, Vishakha Sharma , "An Adaptive Codebook Model for Change Detection With Dynamic Background" 11th IEEE International Conference on Signal Image Technology and Internet Based Systems by IEEE at Bangkok, Thailand / 110-116 / 2015
- 53. Deepa Modi and Neeta Nain , "Part of Speech Tagging of Hindi Corpus Using Rule Based Method" International Conference on Recent Cognizance in Wireless Communication and Image Processing by Springer at Jaipur / 241-248 / 2015
- 54. Maninder Nehra, Neeta Nain and Mushtaq Ahmed , "Handwritten Devanagari Script Database Development for Offline Hindi Characters With Modifiers" International Conference on Recent Cognizance in Wireless Communication and Image Processing by Springer at Jaipur / 233-240 / 2015
- 55. Tapas Badal, Neeta Nain, Mushtaq Ahmed and Vishakha Sharma , "An Improved Multi-Layer Codebook Model to Eliminate Ghost Region" National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics) Conference Held at IIT-Patna on 16-19 Dec, 2015. by IEEE at IIT Patna / 1-5 / 2015
- 56. D. Gautam and M. Ahmed, "Melanoma detection and classification using SVM based decision support system," 2015 Annual IEEE India Conference (INDICON), New Delhi, 2015, pp. 1-6. doi: 10.1109/INDICON.2015.7443447.
- 57. R. B. Battula, M. S. Gaur, D. Gopalani, K. Radhika and S. Shiwani, "A dynamic medium access mechanism for cognitive radio wireless mesh networks," Signal Processing and Communication (ICSC), 2015 International Conference on, Noida, 2015, pp. 434-438.
- 58. Ramesh babu B, Manoj Singh Gaur, Dinesh Gopalani, Meenakshi Tripathi, "Cognitive radio ad-hoc networks: Attacks and its impact," Emerging Trends in Networks and Computer Communications (ETNCC), 2015 International Conference on, Windhoek, 2015, pp. 125-130.
- 59. Ramesh Babu Battula, Manoj Singh Gaur , Dinesh Gopalani, Meenakshi T, Aditya Sharma " Spectrum Aware Distance and Utilization Routing Protocol for Cognitive Radio Networks ", IEEE 12th Malaysia International Conference on Communications (MICC), 2015
- 60. Ramesh Babu Battula, Manoj Singh Gaur , Dinesh Gopalani, " Path and Load Aware Channel Assignemnt Algorithm for Cognitive Radio Wireless Mesh Networks ", IEEE 18th International Symposium on Wireless Personal Multimedia Communications, 2015
- 61. Mohammed A R Quadri, Ramesh Babu Battula, Manoj Singh Gaur , Dinesh Gopalani, " Distributed Token Based MAC for Multi-Channel Multi-Interface, Cognitive Radio WMN ", IEEE 18th International Symposium on Wireless Personal Multimedia Communications 2015.

S. No.	Title	Author	Publisher
1.	Proceedings of the 8th International Conference on Security of Information and Networks, {SIN} 2015, Sochi, Russian Federation, September 8-10, 2015, ACM, 2015.	Oleg B. Makarevich, Ron Poet, Atilla Elci, Manoj Singh Gaur, Mehmet A. Orgun, Ludmila K. Babenko, Md. Sadek Ferdous, Anthony T. S. Ho, Vijay Laxmi and Josef Pieprzyk:	ACM
2.	Socio-Affective Computing series, book titled, "Prominent Feature Extraction for Sentiment Analysis ISBN: 978-3-319-25343-5, DOI: 10.1007/978-3-319-25343-5	Dr. namita Mittal	Springer

Faculty members who completed Ph. D. /M.Tech during the Year 2015-16

1. Dr. Santosh Kr. Vipparthi Ph. D. 13-4-2015
2. Dr. Arka Prokash Mazumdar Ph. D. 23-4-2015
3. Dr. Yogesh Kumar Meena Ph. D. 9-10-2015

Membership of Professional bodies

S. No.	Name of Faculty	Membership
1.	Prof. MS Gaur	ACM, IEEE, ISTE, VSI
2	Dr. Vijay Laxmi	ACM, IEEE, ISTE
3.	Dr. Pilli Emmanuel Shubhakar	Member, Association for Computing Machinery Member, Institution of Electrical Electronics Engineers Life Member, Computer Society of India Member, IFIP WG 11.9 on Digital Forensics Founding Member, Cloud Computing Innovation Council of India (CCICI) Member, IEEE Computer Society / Communications Society Member, IEEE Cloud Computing Community / Internet of Things Community Member, NIST Work Groups on Cloud Security and Cloud Forensics
4.	Dr. Neeta Nain	Life Member of IEEE. Member of IAENG. Member of British Machine Vision Association. Member Board of Studies of RTU. Life Member of Indian Unit - International Association of Pattern.
5.	Dr. Namita Mittal	Member of ACM Senior Member of IEEE. Founder Member of Cloud Computing Innovation Council of India(CCICI). Member of Soft Computing Research Society.
6.	Dr. Mushtaq Ahmed	Member of IEEE.
7.	Dr. Yogesh Kumar Meena	Life Member of Computer Society of India.
8.	Mr. Ramesh Babu B	Member of IAENG. Member of ACM, USA. Reviewer for IEEE Transactions on Communications of IEEE. Member of IEEE Communications Society.
9.	Dr. Arka Prokash Mazumdar	Member of IEEE. Member of IEEE Computer Society.
10.	Dr. Santosh Kumar Vipparthi	Member of IEEE Member of Signal Processing Society Member of Biometrics Council Member of IEEE - Council on RFID
11.	Mr. Dinesh Kumar Tyagi	Member of IEEE. Life Member of Computer Society of India. Member of ACM, USA.
12.	Prof. M. C. Govil	Member of IEEE. Life Member of ISTE. Life Member of IETE.

**Any other details worth publication in Annual Report 2015-16**

S. No.	Name of Faculty	Particulars
1.	Prof. MS Gaur	Four students successfully defended their PhD thesis.
2.	Dr. Vijay Laxmi	Four students successfully defended their PhD thesis.
3.	Ramesh Babu B	Reviewer for IEEE Transaction on Communications, IEEE Systems, IJCS

DEPARTMENT OF ELECTRICAL ENGINEERING**Research Papers Published in International Journals:**

1. Jie Yan, Xiaoli Gao, Yongqian Liu, Shuang Han, Li Li, Xiaomei Ma, Chenghong Gu, Rohit Bhakar, and Furong Li, "Adaptabilities of three mainstream short-term wind power forecasting methods," Journal of Renewable and Sustainable Energy, American Institute of Physics, vol. 7, no. 053101, 2015.
2. Prerna Jain, Rohit Bhakar, S.N. Singh, "Influence of bidding mechanism and spot market characteristics on market power of a large Genco using hybrid DE/BBO," Journal of Energy Engineering, ASCE, vol. 141, no. 3, pp. 1-13, Sept. 2015.
3. Parul Mathuria, Rohit Bhakar, "GenCo's integrated decision making to manage multimarket uncertainties", IEEE Transactions on Power Systems, vol. 30, no. 3, May 2015, pp. 1465-1474.
4. Parul Mathuria, Rohit Bhakar, Furong Li, "Genco's optimal power portfolio selection under emission price risk", Electric Power Systems Research, Elsevier, vol. 121, April 2015, pp. 279-286.
5. P. Anjana, V. Gupta, H. P. Tiwari, N. Gupta, R. C. Bansal, "Hardware Implementation of Shunt APF using Modified Fuzzy Control Algorithm with STM32F407VGT Microcontroller" Electric Power Components and Systems, DOI:10.1080/15325008.2016.1172683, 2016.
6. Kusum Verma, K. R. Niazi, "Preventive control for transient security with generation rescheduling based on rotor trajectory index", Journal of Electrical Engineering & Technology, Vol.10, No.2, pp. 465-473, 2015.
7. Shahbaz. A. Siddiqui, Kusum Verma, K. R. Niazi, Manoj Fozdar, "Preventive and Emergency Control of Power System for Transient Stability Enhancement", Journal of Electrical Engineering & Technology, Vol.10, No.1, pp.83-91, 2015.
8. Shahbaz. A. Siddiqui, Kusum Verma, K. R. Niazi, Manoj Fozdar, "A unified control scheme for power system transient stability enhancement through preventive and emergency control", International Transactions on Electrical Energy Systems, vol.26, pp. 365-383, 2016.
9. Vinay Kumar Jadoun, Nikhil Gupta, K. R. Niazi, and Anil Swarnkar, "Multi-area Economic Dispatch with Reserve Sharing using Dynamically Controlled Particle Swarm Optimization", International Journal of Electrical Power and Energy Systems, vol. 73, pp. 743-756, 2015
10. Vinay Kumar Jadoun, Nikhil Gupta, K. R. Niazi, and Anil Swarnkar, "Modulated Particle Swarm Optimization for Economic Emission Dispatch", International Journal of Electrical Power and Energy Systems, Vol 73, pp. 80-88, 2015
11. Neeraj Kanwar, Nikhil Gupta, K. R. Niazi and Anil Swarnkar, "Improved meta-heuristic techniques for simultaneous capacitor and DG allocation in radial distribution networks", International Journal of Electrical Power and Energy Systems, Vol 73, pp. 653-664, 2015.
12. Vinay Kumar Jadoun, Nikhil Gupta, K. R. Niazi, and Anil Swarnkar, "Enhanced Particle Swarm Optimization for Short-Term Non-Convex Economic Scheduling of Hydrothermal Energy Systems", Journal of Electrical Engineering & Technology, 10 (5), pp. 1940-49, 2015
13. Vinay Kumar Jadoun, Nikhil Gupta, K. R. Niazi, Anil Swarnkar and Ramesh C. Bansal, "Multi-area Environmental Economic Dispatch with Reserve Constraints using Enhanced Particle Swarm Optimization", Electric Power Components and Systems (Taylor and Francis), 43(13), pp. 1667-1679, 2015

14. Neeraj Kanwar, Nikhil Gupta, K.R. Niazi, and Anil Swarnkar, "Optimal distributed generation allocation in radial distribution systems considering customer-wise dedicated feeders and load patterns", *Journal of Modern Power and Clean Energy*, Springer, vol. 3, Issue 4, pp. 475–484, December 2015. DOI:10.1007/s40565-015-0169-0
15. Neeraj Kanwar, Nikhil Gupta, K. R. Niazi and Anil Swarnkar, "Simultaneous allocation of distributed resources using improved teaching learning based optimization", *Energy Conversion and Management*, Elsevier, 103, 387-400, 2015
16. Neeraj Kanwar, Nikhil Gupta, K.R. Niazi, and Anil Swarnkar, "Improved cat swarm optimization for simultaneous allocation of DSTATCOM and DGs in distribution systems", *Journal of Renewable Energy (Hindawi)*, pp. 1–10, January 2015.
17. Neeraj Kanwar, Nikhil Gupta, K.R. Niazi, Anil Swarnkar, and R.C. Bansal, "Simultaneous allocation of distributed energy resource using improved particle swarm optimization", *Applied Energy*, Elsevier, 2016. (In Press)
18. Neeraj Kanwar, Nikhil Gupta, K.R. Niazi, and Anil Swarnkar, "Optimal allocation of distributed energy resources using improved meta-heuristic techniques", *Electric Power Components and Systems*, Taylor & Francis. (In Press)
19. Neeraj Kanwar, Nikhil Gupta, K.R. Niazi, and Anil Swarnkar, "An Integrated Approach for Distributed Resource Allocation and Network Reconfiguration Considering Load Diversity among Customers", *Sustainable Energy, Grids and Networks*, Elsevier. (Accepted)
20. K. Vijayakumar, N. Kumaresan, and N. Ammasai Gounden, "Speed Sensor-Less Maximum Power Point Tracking and Constant Output Power Operation of Wind-Driven Wound Rotor Induction Generators", *IET Power Electronics* Volume :8/33 – 46/2015

List of Papers Presented at International Conferences:

1. Nitin Gupta, Anil Bathe, "A Comparative Analysis of Passive Filters for Power Quality Improvement", in proceeding of IEEE International Conference on Advancements in Power and Energy (TAP Energy), Amrita Vishwa Vidyapeetham, pp. 327-332, June 24-26, 2015
2. Parul Mathuria, Rohit Bhakar, "Large Consumer's Purchase Portfolio Optimization in Electricity Market", 6th IEEE International Conference on Power Systems, IIT Delhi, New Delhi, 4-6 March 2016.
3. Ashok Parmar, Rohit Bhakar, "Capacity Reimbursement Mechanisms: Challenges & Opportunities in Deregulated Markets", 6th IEEE International Conference on Power Systems, IIT Delhi, New Delhi, 4-6 March 2016.
4. Parul Mathuria, Rohit Bhakar, "GenCo's integrated decision making to manage multimarket uncertainties", IEEE Power Engineering Society General Meeting, 26th -30th July 2015, Denver, USA.
5. Parul Mathuria, Rohit Bhakar, "Info-Gap approach to manage genco's trading portfolio with uncertain market returns", IEEE Power Engineering Society General Meeting, 26th -30th July 2015, Denver, USA.
6. Arun Nayak, Kailash Chan Sharma, Rohit Bhakar, Jyotirmay Mathur, "ARIMA based statistical approach to predict wind power ramps" IEEE Power Engineering Society General Meeting, 26th -30th July 2015, Denver, USA.
7. Pradeep Anjana, Vikas Gupta, Harpal Tiwari, Nitin Gupta, "PV Source Integrated Micro-Grid for Power Quality Improvement" IEEE PES T&D Conf. & Expo. 2016, 2nd -5th May 2016.
8. A. Kumar, H. Tiwari, P. Anajan, "Review of Active Power Filters for Improvement of Power Quality", 2nd International Conference on Innovative Advancements in Engineering & Technology (IAET), from April 1 to 2, 2016 at Jaipur National University, Jaipur, Rajasthan, India.
9. P. Anjana, N. Gupta, V. Gupta, H. P. Tiwari, "Reduce Day-time Domestic Energy Demand by



- Synchronization of RES with Shunt APF,” IEEE 1st International Conference on Power Electronics, Intelligent Control & Energy Systems, Delhi, India, 4th-6th July 2016. (Accepted)
10. A. Kumar, P. Anjana, H. Tiwari, V. Gupta, “Modified P-Q Technique to Mitigate Power Quality Problems in Distribution System,” IEEE 1st International Conference on Power Electronics, Intelligent Control & Energy Systems, Delhi, India, 4th-6th July 2016. (Accepted)
 11. Shahbaz. A. Siddiqui, Kusum Verma, K. R. Niazi, Manoj Fozdar, “Artificial neural network based early detection of real-time transient instability for initiation of emergency control through wide-area synchrophasor measurements” IEEE International Conference on Computer, Communication and Control(IC4), MGI Indore, INDIA. September 10 -12, 2015.
 12. Neha Agarwal, Kusum Verma, K. R. Niazi, Anil Swarnkar, Nikhil Gupta, “Optimal Penetration of Renewable Sources for Distribution System Performance Improvement”, 2015 IEEE PES General Meeting, 26 - 30 July 2015, Denver, Colorado, USA.
 13. Akanksha Shukla, Kusum Verma, Shahbaz. A. Siddiqui, “Optimal Voltage Regulation of a Distribution Network by Output Power Management of DGs”, 12th IEEE India International Conference (INDICON 2015), Jamia Millia Islamia, New Delhi, India, 17-20 Dec.2015.
 14. Shahbaz. A. Siddiqui, Kusum Verma, K. R. Niazi, Manoj Fozdar, “Real-Time Identification of Generator Coherent Groups through Synchrophasor Measurements and ANN”, 12th IEEE India International Conference (INDICON 2015), Jamia Millia Islamia, New Delhi, India, 17-20 Dec.2015.
 15. Akanksha Shukla, Kusum Verma, Rajesh Kumar, “Online Voltage Stability Monitoring of Distribution System using Optimized Support Vector Machine”, 6th IEEE International Conference on Power Systems (ICPS 2016), Indian Institute of Technology Delhi, Hauz Khas, New Delhi, India, 4-6 March 2016.
 16. Harita Shah, Kusum Verma, “PMU-ANN based Approach for Real Time Voltage Stability Monitoring”, 6th IEEE International Conference on Power Systems (ICPS 2016), Indian Institute of Technology Delhi, Hauz Khas, New Delhi, India, 4-6 March 2016.
 17. Neeraj Kanwar, Nikhil Gupta, K. R. Niazi, Anil Swarnkar and R. C. Bansal, “Multi-objective Optimal DG Allocation in Distribution Networks using Bat Algorithm”, Third Southern African Solar Energy Conference-2015, Kruger National Park, South Africa, 11-13 May 2015
 18. Vinay K. Jadoun, Nikhil Gupta, K. R. Niazi, Anil Swarnkar and R. C. Bansal, “Short-Term Non-Convex Economic Hydrothermal Scheduling Using Dynamically Controlled Particle Swarm Optimization”, Third Southern African Solar Energy Conference-2015, Kruger National Park, South Africa, 11-13 May 2015.
 19. Nand Kishore Meena, Anil Swarnkar, K. R. Niazi and Nikhil Gupta, “A Taguchi-based Approach for Optimal Placement of Distributed Generations for Power Loss Minimization in Distribution System”, IEEE PES GM, 2015, July 26-30, 2015, Denver, CO, USA.
 20. Neha Agarwal, K. R. Niazi, Kusum Verma, Anil Swarnkar “Optimal Penetration of Renewable Sources for Distribution System Performance Improvement”, IEEE PES GM, 2015, July 26-30, 2015, Denver, CO, USA.
 21. Vinay Kumar Jadoun, Nikhil Gupta, K. R. Niazi, Anil Swarnkar, and R. C. Bansal, “Improved Particle Swarm Optimization for Multi-area Economic Dispatch with Reserve Sharing Scheme”, CPES, IIT Delhi, 9-11 December 2015.
 22. Neeraj Kanwar, Nikhil Gupta, K. R. Niazi, Anil Swarnkar, and R. C. Bansal, “Application of TLBO for Distribution Network Planning via Coordination of Distributed Generation and Network Reconfiguration”, CPES, IIT Delhi, 9-11 December 2015.
 23. Dhanraj Chitra, K. R. Niazi, Anil Swarnkar, Nikhil Gupta and R. C. Bansal “Optimal Tuning of Multimachine Power System Stabilizer using Cuckoo Search Algorithm”, CPES, IIT Delhi, 9-11 December 2015
 24. Mirtunjay K. Modi, Anil Swarnkar, K. R. Niazi, Nikhil Gupta and R. C. Bansal “Stochastic Economic Load



- Dispatch with Multiple Fuels using Improved Particle Swarm Optimization”, CPES, IIT Delhi, 9-11 December 2015.
25. Naresh Jangid, Pankaj Kumar, Nikhil Gupta, K R Niazi, Anil Swarnkar, “Robust Allocation of DGs Integrated with Distribution Network Reconfiguration”, 12th IEEE India International Conference, INDICON, 2015, Jamia Millia Islamia, New Delhi, 17-20 Dec 2015.
 26. Ritesh K. Jha, Nand Kishore Meena, Anil Swarnkar, Nikhil Gupta, K R Niazi “Dynamic Economic Dispatch of Micro-grid using Harmony Search Algorithm”, 12th IEEE India International Conference, INDICON, 2015, Jamia Millia Islamia, New Delhi, 17-20 Dec 2015.
 27. Nand Kishore Meena, Anil Swarnkar, K. R. Niazi, Nikhil Gupta, “An UVLO Featured Average Current Mode Controlled Boost Converter Design for Automotive Industry Applications”, IEEE 1st International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES), Delhi Technical University, Delhi, to be held during 4-6 July 2016. (Accepted)
 28. Dhanraj Chitara, K. R. Niazi, Anil Swarnkar, Nikhil Gupta, “Cuckoo Search Optimization Algorithm for Designing of Multimachine Power System Stabilizer”, IEEE 1st International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES), Delhi Technical University, Delhi, to be held during 4-6 July 2016.
 29. Manish Gupta, D. Saxena and Nitin Gupta, Simulation of Single and Composite Power Quality Events for Analysis and Characterization, 4th students' Conference on Engineering And Systems SCES2015, November 6-8, 2015.

Membership of Professional Bodies

S. No.	Name of Faculty	Membership
1.	Dr. Rohit Bhakar	Senior Member, IEEE USA Member, IEEE Smart Cities
2.	Dr. H. P. Tiwari	IEEE , IE (India)
3.	Dr. Kusum Verma	Member, IEEE Life Member, IE (I) Institution of Engineers Life Member, ISTE (Indian Society for Technical Education)
4.	Dr. Nikhil Gupta	Life Member, ISTE, India Member, IEEE, USA Member, Power and Energy Society, IEEE, USA Member, Smart Grid Community, IEEE
5.	Dr. Anil Swarnkar	Member, IEEE, USA Member, Power and Energy Society, IEEE, USA Member, Smart Grid Community, IEEE
6.	Dr. D Saxena	Senior Member, IEEE
7.	Dr. Prerna Jain	Member, IEEE

Patents filed by the department /faculty

S. No.	Patent brief detail	Status (filed/accepted)	Year
1	"Intelligent Energy Monitoring System" (Reg/Ref No.2405/DEL/2015 A) by Raghav Totla, Nikhil Gupta, Anil Swarnkar, K R Niazi	Filed	Aug 2015

**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING****Research Papers Published in International Journals:**

1. Praveen Gupta , K.K. Sharma , S D Joshi , "Fetal heart rate extraction from abdominal electrocardiograms through multivariate empirical mode decomposition" ,
Computers in Biology and Medicine Volume: 68 / pp. 121-136/ 2016.
2. Hemant Sharma, K.K. Sharma, Om Lata Bhagat, "Respiratory Rate Extraction From Single - Lead ECG Using Homomorphic Filtering", Computers in Biology and Medicine Volume: 59 / 80-86/ 2015.
3. Hemant Sharma, K.K. Sharma, "Baseline wander removal of ECG signals using Hilbert vibration decomposition, Accepted for publication", Electronic letters Volume: 6 / 02 / 2015.
4. Praveen Gupta, K.K. Sharma, S.D. Joshi, "Baseline wander removal of electrocardiogram signals using multivariate empirical mode decomposition" , Healthcare technology letters Volume :0 / 3 / 2015 ISBN: 2053-3713.
5. D. Jhanwar, K.K. Sharma, S.G. Modani, "Discrimination of environmental background noise in presence of speech using sample-pairs statistics based features", Acoustical Physics Volume :61 / 00-06 / 2015.
6. Ankit Agrawal, Rakesh Bairathi and Amit Joshi, "FPGA Implementation of 4-Point and 8-Point Fast Hadamard Transform. International Journal of Computer Applications 124(3):23-28, August 2015", Published by Foundation of Computer Science (FCS), NY, USA.
7. G Gupta, AM Joshi, K Sharma "An Efficient Robust Image Watermarking based on AC Prediction Technique Using DCT Technique", ICTACT Journal on Image & Video Processing, Vol.6, No.1, 2015.
8. Amit Joshi, Sagar balecha, "Magnetic Tunnel Junction Based Applications and Logic Computation", International Journal of Innovative and Emerging Research in Engineering, 2016 (Accepted).
9. Shashikant Sharma, Bernhard C. Bayer, Viera Skakalova, Ghanshyam Singh and C. Periasamy, "Structural, Electrical and UV Detection Properties of ZnO/Si Heterojunction Diodes" , IEEE Transactions on Electron Devices (SCI, Impact factor:2.472) Volume :1 / 1-8 / 2016 ISBN: 0018-9383.
10. Shashikant Sharma, A. Sumathi C. Periasamy "Photodetection Properties of ZnO/Si Heterojunction Diode: A Simulation Study" IETE Technical Review (SCI, Impact Factor: 1.00). (Accepted for Publication).
11. L. Rajan, C. Periasamy and Vineet Sahula, "Comprehensive Study on Electrical and Hydrogen Gas Sensing Characteristics of Pt/ZnO Thin Film Based Schottky Diodes Grown on n-Si Substrates by RF sputtering", IEEE Transactions on Nanotechnology, Vol. pp, No. 99, pp. 1-8, 2016. (SCI, Impact Factor: 1.825).
12. Niketa Sharma, C. Periasamy and Nidhi Chaturvedi, "Investigation of High-Temperature Effects on the Performance of AlGaN/GaN HEMTs", Journal of Nanoelectronics and Optoelectronics, Volume: 1 / 1 / 2016 ISBN: 1555-1318.
13. Shashikant Sharma, C. Periasamy and P. Chakrabarti, "Thickness Dependent Study of RF Sputtered ZnO Thin Films for Optoelectronic Device Applications", Electronic Materials Letters, Vol. 11, No.6, pp. 1093-1101, 2015. (SCI, Impact Factor: 1.98).
14. Shashikant Sharma , Tarun Varma , K. Asokan , C. Periasamy, Dharmendar Boolchandani, "Annealing Temperature Dependent Structural and Optical Properties of RF Sputtered ZnO Thin Films " ,Journal of Nanoscience and Nanotechnology, Vol. 16, No. 3, pp. 1-6, 2015. (SCI, Impact Factor: 1.55).
15. Shashikant Sharma and C. Periasamy, "Effect of Sputtering Power on Structural and Optical Properties of ZnO Thin Films Grown by RF Sputtering Technique" , Journal of Nanoelectronics and Optoelectronics, Vol. 10, No. 6, pp. 205-210, 2015. (SCI, Impact Factor: 0.4).
16. Shashikant Sharma and C. Periasamy, "Study of ZnO Thin Films Deposited at Different Argon Gas Flow Rates Using RF Sputtering", Advanced Science, Engineering and Medicine, Vol. 7, No. 10, pp. 855-858, 2015.
17. S. Shashikant, C. B. Benhard, S. Viera, S. Ghanshyam, C. Periasamy "Structural, Electrical and UV Detection Properties of ZnO/Si Heterojunction Diodes" IEEE Transactions on Electron Devices, 0018-9383, Vol. PP, Issue 99, PP. 1-8, DOI: 10.1109/TED.2016.2540721, March 24th, 2016.

18. Ryutaro Eguchi, Moriyama, G. Singh, H. Tsuda “Amplitude Trimming of Si Waveguides Using Phase Change Material” IEICE Electronics Express, Vol. 13, Issue 6, DOI: 10.1587/elex.13.20160107, March 2016.
19. Nagesh Janrao, Vijay Janyani, “Slow light photonic crystal waveguide with large quality factor” accepted for publication in Optik - International Journal for Light and Electron Optics, 2015
20. N.D. Gupta and V. Janyani, “Optical and Electrical Simulation Studies of GaAs Thin Film Solar Cell using 2D Photonic Crystals”, Journal of Nanoelectronics and Optoelectronics, ASP, Vol 11, No. 3, pp 368-376, 2016.
21. N.D. Gupta and V. Janyani, “Design and Optimization of Efficient Photonic Crystals Diffraction Grating based Light Trapping Structure for GaAs Thin Film Solar Cell”, In Press, Journal of Nanoelectronics and Optoelectronics, ASP, Nov., 2015.
22. Rekha Mehra, Vijay Janyani, H. K. Dixit, “Scrambling of Data in All-Optical Domain”, Journal of Optics, Springer India, DOI: 10.1007/s12596-015-0249-6, Volume 44, Issue 3, pp 220-224. September 2015.
23. Vinay Kanungo, Vijay Janyani, Mohammad Salim, “Birefringence and Large Mode Area Analysis of Segmented Cladding Index Guiding Photonic Crystal Fibers,” Optical Engineering (SPIE), Vol. 54(2), February 2015.
24. Ritu Sharma, Lalit Dusad , "A review and analysis on growth and optical absorption properties of silicon nanowire array for photovoltaic applications", Modern Physics Letter B 29 / 10 / 2015
25. Ritu Sharma, Anup Sharma, varshali Sharma , "Synthesis of carbon nanotubes by arc discharge and chemical vapor deposition method with analysis of its morphology, dispersion and fictionalization characteristics" , COGENTENGINEERING 10 / 10 / 2015
26. Ritu Sharma, Anuradha Sharma, Varshali Sharma, Santosh C. , "Hybrid square lattice photonic crystal fiber with elliptical air hole and doped core" , International journal of Advancement in Electronics and Electrical Engineering (IJAE) 4 / 5 / 2015 ISBN: 2319-7498
27. Pushpa Gangwal, Mamta Kamra, Ritu Sharma, Santosh Chaudhry, "A novel design of PCF with composite lattice”, International journal of innovative research n engineering 2 / 3 / 2015.
28. Santosh Chaudhary, Mohan Kumar Choudhary, Ritu Sharma , "Effects of thermal radiation on hydromagnetic flow over unsteady stretching sheet embedded in a porous medium in the presence of heat source or sink", Meccanica 10 / 6 / 2015
29. Ritu Sharma, Anup Kr. Sharma, Gaurav Sharma, Varshali Sharma , "Effect of different metal catalysts on the growth of carbon nanotubes by chemical vapor deposition using five step process" , Journal of optoelectronics and advanced material 17 / 1728-1733 / 2015 .
30. Shanky Saxena, Ritu Sharma, B.D. Pant , "Design and Development of guided four beam cantilever type MEMS based piezoelectric energy harvester" , Microsystem Technology 22 / 1-9 / 2016.
31. Varshali Sharma, Ritu Sharma , "Design of hybrid photonic crystal fiber with elliptical and circular air holes analyzed for large flattened dispersion and high birefringence" , Journal of nanophotonics 10 / 8 / 2016.
32. Anup Kumar Sharma, Ritu Sharma, Ramesh Prajapati , Santosh Chaudhary , "Effect of Different Acid Oxidation on Morphology, Dispersion and Optical Band-gap" , Fullerenes, Nanotubes and Carbon Nanostructures 10 / 1080 / 2016.
33. Rukhsar Zafar, M. Salim, “Achievement of Large Normalized Delay Bandwidth Product by Exciting Electromagnetic-Induced Transparency in Plasmonic Waveguide,” IEEE Journal of Quantum Electronics, Vol. 51, No. 10, October 2015.
34. Rukhsar Zafar, M. Salim, “Enhanced Figure of Merit in Plasmonic Refractive Index Sensor based on Fano resonance” IEEE Sensors Journal, Vol. 15, No. 11, November 2015.
35. Praveen K. Jain, Mohammad Salim, Davinder Kaur, Structural and optical properties of pulsed laser deposited ZnO/TiO₂ and TiO₂/ZnO thin films, Optik - International Journal for Light and Electron Optics, 126 (21), 2015, 3260–3262.
36. Praveen K. Jain, Mohammad Salim, Davinder Kaur, Effect of Phase Transformation on Optical and



Dielectric Properties of Pulsed Laser Deposited ZnTiO₃ Thin Films, Superlattices and Microstructures, Volume 92, April 2016, Pages 308–315.

37. Lintu Rajan, C. Periasamy, V. Sahula and P. Chakravarti, Comprehensive Study on Electrical and Hydrogen Gas Sensing Characteristics of Pd/ZnO Thin film, IEEE Transactions on Nanotechnology, 2015 (Submitted).
38. Lokesh Garg and V. Sahula, Macromodels for Static Virtual Ground Voltage Estimation in Power Gated Circuits, IEEE Transactions on CAS-II, 2015
39. Lokesh Garg and V. Sahula, Elsevier Journal of Microelectronics, 2015 (Submitted).
40. Lintu Rajan, C. Periasamy and V. Sahula, Comprehensive Study on Electrical and Hydrogen Gas Sensing Characteristics of Pt/ZnO Thin Film Based Schottky Diodes Grown on n-Si Substrates by RF sputtering, IEEE Transactions on Nanotechnology, 2015
41. R. Kumawat, V. Sahula and M. S. Gaur, A Probabilistic Model for Nanocell Reliability Evaluation in presence of Transient Errors, IET Computers & Digital Techniques, Volume Issue, January 2015.
42. Tarun Varma, Shashikant Sharma, C. Periasamy and D. Boolchandani, "Performance Analysis of Pt/ZnO Schottky Photodiode Using ATLAS", Journal of Nanoelectronics and Optoelectronics Volume: 10 / 761-765 / 2015 ISBN: 1555-1318.

Research Papers Published in National Journals:

1. K.K. Sharma, Ravi Kumar Goyal, "Slotted Microstrip Patch Antenna at 60GHz for Point to Point Communication," International Journal of Scientific and Engineering Research, Vol. 6, issue, 12, Dec. 2015, pp. 1125-1127.
2. Shaivalini Singh, C. Periasamy, Sumit Vyas, P. Chakrabarti and Si-Hyun Park, "Preparation and Characterization of Hydrothermally Grown ZnO Nanorods for Photoconductive Sensors Applications" , Advance Physics Letter Volume :3 / 2349-1108 / 2016 ISBN: 2349-1094.

List of Papers Presented at International Conferences:

1. K. K. Sharma and Ravi Kumar Goyal, "H-Slotted Microstrip Patch Antenna at 60GHz millimeter wave frequency band for 5G communication", International conference on Communication System and Network Technologies(CSNT-2016), 05-07, Punjab , India, March 2016.
2. Gaurav Gupta, Amit M Joshi, Dr. Karnika Sharma, "An Efficient DCT based Image Watermarking Scheme for Protecting Distribution Rights", International Conference on Contemporary Computing, Jaypee Institute of Information Technology, August 20-22, 2015. (Accepted and to be published in Springer proceeding).
3. Subir Verma, Amit M Joshi "DWT-DCT based Blind Audio Watermarking using Arnold scrambling and Cyclic codes" Third International IEEE Conference on Signal Processing and Integrated Networks, Amity University, Noida, February, 2016 (To be published on IEEE Explore).
4. Dr. Amit M. Joshi, Shubham Gupta, Mohit Girdhar, Pranshu Agarwal, Ranabir Sarker, "Combined DWT-DCT based Video Watermarking Algorithm using Arnold Transform technique", First International Conference on Data engineering and Communication Technology, March-2016(Accepted and to be published in Springer proceeding).
5. Shailendra Tripathi, Samar Ansari, Amit M Joshi, "Low Noise Tunable Band-Pass Filter for ISM 2.4 GHZ Bluetooth Transceiver in 0.7V 32 nm CNFET", First International Conference on Data engineering and Communication Technology, March-2016(Accepted and to be published in Springer proceeding).
6. Shailendra Tripathi, Samar Ansari, Amit M Joshi, " A Current-mode pH-Sensor Interface based on Carbon Nanotube Field Effect Transistor" International Conference on Recent Trends in Engineering and Material Science, Jaipur National University, March 17-19, 2016.
7. Amit M Joshi, Sagar Balecha, "Design of Boolean Logic Implementation using Magnetic Tunnel Junction",

- International Conference on Computational Technologies (ICCT 2016)", March 26-27 Jaipur, Rajasthan.
8. Soma Kumawat, M. Ravi Kumar, "Analysis of Diagonal Eigenvalue Unity (DEU) code for Spectral Amplitude Coding OCDMA systems using Direct Detection technique", International conference on Microwave, Optical and Communication Engineering (ICMOCE-2015), IIT, Bhubaneswar, 18-20 December 2015.
 9. Monika Mathur, Ghanshyam Singh, S. K. Bhatnagar, Swati Swami, Abhijat Vats "Transformation of Design Formulae for Feed Line of Triangular Microstrip Antenna, ICCS 2015", AIP Conf. Proc. 1715, 020035 (1-5); <http://dx.doi.org/10.1063/1.4942717>, 2016.
 10. A. Godbole, P. P. Dali, G. Singh, T. Tanabe, "Microring Resonator Based All Optical XOR and XNOR Logic Gates", IEEE International Conference on Computational Techniques in Information and Communication Technologies (ICCTICT-2016), New Delhi, March 11-13, 2016.
 11. S. Vyas, M. Tiwari, G. Singh "Chalcogenide (LiGaSe₂, LiGISE, LiGaS₂): A perfect material to design highly nonlinear PCFs for supercontinuum generation" Proc. of ICRCWIP 2015, ISBN e-Book/hardcover: 978-81-322-2638-3/978-81-322-2636-9, pp 409-414, DOI 10.1007/978-81-322-2638-3, Springer Publication, December 2015.
 12. Mukesh Kumar Gupta, Jyoti Agarwal, A. Dhingra and G. Singh, "Performance Analysis and Optimization of 40 Gbps Transmission System over 4000 km with FBG", Proc. of ICRCWIP 2015, ISBN e-Book/hardcover: 978-81-322-2638-3/978-81-322-2636-9, pp.759-765, DOI 10.1007/978-81-322-2638-3, pp 759-768, Springer Publication Jaipur, April 2016
 13. M. Mathur, G. Singh, S. K. Bhatnagar "An Analytical Approach to Recuperate Digress Resonance Frequency of MS Antenna by Applying Dielectric Constant Engineering" Proc. of ICRCWIP 2015 ISBN e-Book/hardcover: 978-81-322-2638-3/978-81-322-2636-9, pp 107-114, DOI 10.1007/978-81-322-2638-3, Springer Publication, April 2016.
 14. A. I. Stanley, G. Singh, J. Eke, H. Tsuda "Machzehnder Interferometer: A review of a perfect all optical switching structure" Proc. of ICRCWIP 2015 ISBN e-Book/hardcover: 978-81-322-2638-3/978-81-322-2636-9, pp 415-426, DOI 10.1007/978-81-322-2638-3, Springer Publication, April 2016.
 15. P. P. Dali, A. Godbole, S. Sahu, G. Singh, T. Tanabe "Microring Resonator Based All Optical NAND and NOT Gate with Higher Output Power" ACPC 2015, Honk Kong, OSA Technical Digest, Optical Society of America, ISBN: 978-1-943580-06-4, DOI: 10.1364/ACPC.2015.ASu2A.28, 2015.
 16. Mukesh Kumar Gupta, Dinesh Kumar, Amit Kumar Garg, Ghanshyam Singh "Analysis and mitigation of Raman cross talk in WDM-TDM system using partial response coding and Raman pump" IEEE conference, ICMAP 2015, Dhanbad, IEEEExplore 978-1-4673-6898-8/15, p.p. 1-2, December 11-13, 2015.
 17. N. D. Gupta, V. Janyani; G. Singh; H. Tsuda "Design and Analysis of Low Loss Highly Efficient Light Trapping Structure for GaAs Thin Film Solar Cells using Photonic Crystals as Diffraction Grating" in Frontiers in Optics 2015, OSA Technical Digest, Optical Society of America, DOI:10.1364/FIO.2015.FTu3C.4, November 2015.
 18. Deepender Kant, LM Joshi, Vijay Janyani, "Design of a Multi Beam Klystron Cavity from Its Single Beam Parameters", 2nd International Conference on Communication Systems (ICCS-2015), Paper no. ICCS-AIP-15-307, BKBIET Pilani, AIP Conference Proceedings 1715, 020049 (2016); doi: 10.1063/1.4942731, October 18-20, 2015.
 19. Amit Kumar Garg, Vijay Janyani, "Power Budget Improvement in Energy Efficient Long Reach Hybrid Passive Optical Network", II International Conference on Microwave and Photonics (ICMAP-2015) by IEEE at ISM Dhanbad, 11-13 Dec. 2015.
 20. N.D. Gupta and V. Janyani, "Efficiency Enhancement in GaAs Solar Cell using Photonic Crystals as Back Light Trapping Structures", Accepted, International Conference on Recent Trends in Materials and Devices (ICRTMD-2015), Amity University, 15-17 Dec., 2015. BEST PAPER AWARD.
 21. N. Gupta, V. Janyani, G. Singh, and H. Tsuda, "Design and Analysis of Low Loss Highly Efficient Light Trapping Structure for GaAs Thin Film Solar Cells using Photonic Crystals as Diffraction Grating," in Frontiers in Optics 2015, OSA Technical Digest (online) (Optical Society of America, 2015), paper FTu3C.4,



doi:10.1364/FIO.2015.FTu3C.4, San Jose, California, USA from October 18 – 22, 2015.

22. Shanky Saxena, Ritu Sharma, B. D. Pant, "Effect of Thickness of Piezoelectric Layer on Resonance Frequency of Cantilever-Type MEMS Based Piezoelectric Energy Harvester", ICMCC20151039 by International Society for Scientific Research and Development at San Diego, USA by Virtual Platform 27-February to 28-February, 2015.
23. Girraj Sharma, Ritu Sharma, "Cooperative Spectrum Sensing With SLS and Transmit Diversity in Cognitive Radio Networks", International Conference on Recent Trends in Engineering and Material Sciences ICEMS-2016 by Jaipur National University at Jaipur 17-March to 19-March, 2016.
24. R. Ramesh, Ritu Sharma, "FFT Implementation on FPGA With Different Adders", Information, Communication and Computing Technology(ICICCT-2016) by JIMS at New Delhi 14-May to 15-May, 2016.
25. Rohitash Garwal, Varshali Sharma, Ritu Sharma, "Design and Modeling of Diaphragm Type MEMS Based Capacitive Pressure Sensor for Harsh Environment", International Conference on Recent Trends in Engineering and Material Sciences ICEMS-2016 by Jaipur National University at Jaipur 17-March to 19-April, 2016.
26. Lokesh Garg and V. Sahula, Accurate and efficient Estimation of Dynamic Virtual Ground Voltage in Power Gated Circuits, IEEE International Conference on VLSI Design, Kolkata, 2016.
27. Arjun S. Chauhan, V Sahula, High Density Impulsive Noise Removal Using Decision Based Iterated Conditional Modes, IEEE International Conference on Signal Processing, Computing and Control, JUIT Solan, Sept. 2015.
28. S Saini, U Sehgal, V Sahula, Relative Clause based Text Simplification for Improved English to Hindi Translation, Fourth IEEE International Symposium on Natural Language Processing (NLP'15).
29. S Saini, V Sahula, A Survey of Machine Translation Techniques and Systems for Indian Languages, IEEE Conference on Computational Intelligence & Communication Technology (CICT), 2015.
30. Ashish Sharma, Ruby Ansar, Manoj Singh Gaur, Lava Bhargava, Vijay Laxmi "Reducing FIFO Buffer Power Using Architectural Alternatives at RTL", in VLSI Design and Test (VDAT), 2016 20th International Symposium on. IEEE, 2015, pp. 1–6. (Accepted).
31. Ashish Sharma, Manoj Singh Gaur, Lava Bhargava, Vijay Laxmi, and Mark Zwolinski, "Hiper-nirgam: A tool chain based framework for modeling thermal-aware reliability estimation in 2d mesh nocs", in DATE 2015 University Booth, 2015.
32. Ashish Sharma, Prachi Upadhyay, Ruby Ansar, Vijay Laxmi, Lava Bhargava, Manoj Singh Gaur, and Mark Zwolinski, "A framework for thermal aware reliability estimation in 2d noc", in VLSI Design and Test (VDAT), 2015 19th International Symposium on. IEEE, 2015, pp. 1–6.
33. Ramakrishna, Lava Bhargava, Vineet Sahula, "Golden IC free Methodology for Hardware Trojan Detection using Symmetric Path Delays", in VLSI Design and Test (VDAT), 2016 20th International Symposium on. IEEE, 2016, pp. 1–6.
34. Yogendra Gupta, Lava Bhargava "Reinforcement learning based Routing for Cognitive Network on Chip" ACM Second International Conference on Information and Communication Technology for Competitive Strategies March, 2016 Udaipur.
35. Yogendra Gupta, Lava Bhargava "Cognitive Network on Chip Architecture" International Workshop on Network on Chip. MNIT, Jaipur December 2015.
36. Sharma, Gaurav and Lava Bhargava. "Imply logic based on TiO 2 memristor model for computational circuits." Circuit, Power and Computing Technologies (ICCPCT), 2015 International Conference on. IEEE, 2015.

List of Papers Presented at National Conferences

1. Harsh Kumar, Vijay Janyani, Buryy Oleh, Ghanshyam Singh "A review of surface geometric techniques suitable for Lithium Niobate based all optical devices" Proc. of OSA Young Student Congress,

- OSA_YSC_107, PP. 18-21, April 17th, 2016.
2. Purva Bansal, Kamendra Awasthi, Lokesh Kumar Jangir, Ghanshyam Singh “Synthesis and optical characteristics of rare earth doped ZnO nanoparticles” Proc. of OSA Young Student Congress, OSA_YSC_108, PP. 21-24, April 17th, 2016.
 3. Manish Salunkhe, Ghanshyam Singh “Design of small sized self-holding optical switch using phase change material” Proc. of OSA Young Student Congress, OSA_YSC_109, PP. 24-26, April 17th, 2016.
 4. Anoop Singh, Sourabh Sahu, Ghanshyam Singh “Electro-optic asymmetric Mach-Zehnder modulator designed using organic polymer” Proc. of OSA Young Student Congress, OSA_YSC_111, PP. 29-32, April 17th, 2016.
 5. Manish Salunkhe, S. Kalra, H. Tsuda, V. Janyani, G. Singh “Design and analysis of ultra-compact optical switch using phase changing material” IETE National conference, MNIT Jaipur, ICTHC_156, pp. 20, March 5th, 2016.
 6. Deepak Singh, M. K. Gupta, G. Singh “Mitigation of Raman cross-talk in co-existed GPON and XGPN” IETE National conference, MNIT Jaipur, ICTHC_156, pp. 19, March 5th, 2016.
 7. Harsh Kuma, V. Janyani, Buryy Oleh, G. Singh “Study of optical properties of Magnesium doped Lithium Niobate: A review” IETE National conference, MNIT Jaipur, ICTHC_156, pp. 16, March 5th, 2016.
 8. Sourabh Sahu, G. Singh “Biosensor in Mid-IR region on SON slot waveguide” IETE National conference, MNIT Jaipur, ICTHC_156, pp. 16, March 5th, 2016.
 9. Anoop Singh, S. Sahu, G. Singh “Design and analyses of DR1/PMMA polymer based asymmetric MZM” IETE National conference, MNIT Jaipur, ICTHC_156, pp. 15, March 5th, 2016.
 10. Amit Kumar Garg, M. K. Gupta, G. Singh, V. Janyani “Flexible hybrid WDM-TDM PON architecture” IETE National conference, MNIT Jaipur, ICTHC_156, pp. 13, March 5th, 2016.
 11. Shashikant Gupta, B. C. Bayer, V. Skakalova, G. Singh, C. Periasamy “Design and development of piezoelectric nanogenerator based ZnO nanoneedles” IETE National conference, MNIT Jaipur, ICTHC_156, pp. 10, March 5th, 2016.
 12. Ashish Kumar Ghunawat, H. Kohli, S. Pareek, G. Singh “Review paper on highly nonlinear fiber and applications” IETE National conference, MNIT Jaipur, ICTHC_156, pp. 20, March 5th, 2016.

Books Published

S. No.	Title	Author	Publisher
1.	Chapter 4-Hardware Implementation of image and Video watermarking for ownership verification	Mr. Amit M. Joshi, Monica Bapna, Aniruddh Malpani, Ashwini Kumar Goyal, Manisha Meena	Embodying Intelligence in Multimedia Data Hiding, Science Gate Publishing
2.	Chapter 2- Integer DCT based real-time watermarking for H.264 encoder	Amit M. Joshi, Vivekanand Mishra, R. M. Patrikar	Reconfigurable and Adaptive Computing Theory and Applications, Taylor and Francies, CRC
3.	Book on proc. of OSA sponsored International conference on recent cognizance in wireless communication & image processing (eBook ISBN: 978-81-322-2638-3, Hardcover ISBN: 978-81-322-2636-9, 2016)	Dr. Ghanshyam Singh	Springer publication (India).

**Membership of Professional bodies**

S. No.	Name of Faculty	Membership
1.	Dr. Ghanshyam Singh	OSA, IEEE, IETE, OSI, SPIE, ISTE, IE(I), Laser Society of India and BESI
2.	Dr. Amit M Joshi	IEEE, IET, IETE, IEICE, ACM
3.	Dr Vijay Janyani	IEEE, OSA, SPIE, OSI
4.	Dr. Lava Bhargava	IEEE, ACM, IETE
5.	Prof. K.K. Sharma	IETE, IE (I)
6.	Prof. V. Sahula	IETE, IE (I), IEEE

Any other details worth publication in Annual Report 2015-16

S. No.	Name of Faculty	Particulars
1.	Dr. Ghanshyam Singh	Visiting research (PhD candidates) scholars from Universities abroad: Mr. A. I. Stanley (Passport no/country code: A04598573/NGN) from Ebony State University, Nigeria during November 18th 2014 – March 26th 2015. He worked on “MZI switching structure and its application in optical networks” as part of his ongoing doctoral work at his University. Mr. Ashwani Sharma (Passport no/country code: G5401372/IND) from Duesto Institute of Technology, University of Duesto, Spain during May 2015 – September 2015. He worked on “Design and development of antenna prototypes for wireless applications” as part of his doctoral work at his University.

DEPARTMENT OF HUMANITIES & SOCIAL STUDIES**Research Papers Published in International Journals:**

1. Tandon, Nupur & Shveta Tripathi. "Exploring the Interface between Environment and Identity in Willa Cather's Prairie Trilogy." *Contemporary Discourse*. Vol. 6, Issue 2, July 2015.

Research Papers Published in National Journals:

1. Shekhawat, Vibhuti Singh. “The Perplexing Enigma of Supply Chain Management: Literature Review.” *Journal of Supply Chain Management System*, Volume 4, Issue 4, Oct. 2015.
2. Choudhary, Boola & Dipti Sharma (2015). Solar Energy for Sustainable Growth and Employment Generation in Rural Rajasthan: A Case Study. *The Indian Economic Journal: Policies and Strategies for Growth and Job Creation*, Spl Issue, 155-163.
3. Choudhary, Boola & Dipti Sharma (2016). Decentralized Solar Energy for Sustainability in Rural Rajasthan: A Case Study. *Indian Economy: A Roadmap towards Development*, Book Chapter (978-81-929590-9-6), 211-219.
4. Singh, Shikha & Dipti Sharma (2016). An Overview of Trade Volume and its Composition: Comparative Analysis of EU, ASEAN and India. *JBIMS Spectrum*, Vol. IV, No.1, ISSN 2320-7272, 501-512.
5. Kanupriya and Preeti Bhatt. “The Individual's Journey towards Self-realization in Girish Karnad's

Hayavadana.” Xavier's Interdisciplinary Research Journal *Impetus* Vol. 4, Aug. 2015: 111-17.

List of Papers Presented at International Conferences:

1. Tandon, Nupur: 'Indian, English: Pedagogical Concerns and Challenges', *International Conference on Literature and Language*(LILA '15), Istanbul, Turkey, June 29-30, 2015.
2. Bhatt, Preeti. “Translation as Creative Reinterpretation in *Maqbool* and *Haider*.”XII Annual International Conference of Rajasthan Association for Studies in English on 'Evolving Facets of Translation: Comparative Perspectives, Adaptation, and Popular Culture' organized by Central University of Rajasthan. November 23-24, 2015.
3. Singh, Shikha & Dipti Sharma (2016), Impact of trade liberalization on trade of selected industry groups: A comparative analysis of EU and ASEAN with India. Paper presented at the 18th International Conference on “*Sustainable Growth and Development in the New Millennium-Frontier Global Issues and Challenges*” organized by Rajasthan Development Association and Rajasthan Development and Research Foundation, Jaipur in collaboration with Rajasthan Chamber of Commerce and Industry, Jaipur from 26 - 27 March, 2016.

List of Papers Presented at National Conferences

1. Sharma, Dipti & Boola Choudhary(2015). Solar Energy for Sustainable Growth and Employment Generation in Rural Rajasthan: A Case Study. Paper presented at the 98th Annual Conference of the Indian Economic Association, organized at Centre for Economic and Social studies, Hyderabad from 27-29 December, 2015.
2. Bhatt, Preeti. 'Movies as a Medium of Social Change: Deepa Mehta's *Fire* and *Water*.' Paer presented in the National Conference on *Gender and Media: The Emerging Concerns* organised by University Maharani College, University of Rajasthan, Jaipur from 16-17 Oct. 2015.

Membership of Professional Bodies

S. No.	Name of Faculty	Membership
1.	Vibhuti Singh Shekhawat	Indian Institute of Public Administration (IIPA) New Delhi Indian Political Science Association
2.	Dr. Nupur Tandon	Life Member: Rajasthan University Women's Association Executive Member: ELTAI, Rajasthan Chapter
3.	Dr. Dipti Sharma	Life Member: Indian Economic Association Life Member: Rajasthan Economic Association
4.	Dr. Preeti Bhatt	Executive Member, Jaipur Chapter, English Language Teachers' Association of India Life Member, Forum on Contemporary Theory, Baroda Member, Review Editorial Board, <i>Gnosis: An International Journal of Language and Literature</i>



Any other details worth publication in Annual Report 2015-16

S. No.	Name of Faculty	Particulars
1.	Dr. Nupur Tandon	Appointed the first Associate Dean, Creative Arts and Cultural Society & Alumni Affairs, MNIT Jaipur
2.	Dr. Vibhuti Singh Shekhawat	Terror on High Seas, Published in “The Changing Dimensions of Security: India’s Security Policy Options” edited by Dr. Suresh R in 2015.
3.	Dr. Vibhuti Singh Shekhawat	Guided MBA project (MS-100) to Manish Vashishth (Assistant Professor in the Chemical Engineering Department MNIT Jaipur) on the topic Study on Rewards and Recognition System: A Case Study of Radisson Blue Hotel, Jaipur.
4.	Dr. Preeti Bhatt	“Newspaper Clippings as a Resource for Language Teaching.” Research Paper published in <i>Enhancing Communication Skills through ELT Practices</i> . Ed. Sanjay Arora. Jaipur: Raj Publishing House, 2015.

DEPARTMENT OF MATHEMATICS

Research Papers Published in International Journals:

1. Int. J. Appl. Comput. Math (2016) Vol 1 No 4 :Flow of Fractional Maxwell Fluid in Oscillating Pipe Like Domains(Springer)· Vatsala Mathur, Kavita Khandelwal
2. Sanjay Bhattar and Sheikh Mohammed Faisal, "A family of Mittag-Leffler type functions and its relation with basic special functions", International Journal of Pure and Applied Mathematics /Vol. 101 No. 3 2015, 369-379.
3. Sanjay Bhattar, M.I. Qureshi and Sheikh Mohammed Faisal, "A family of Mittag-Leffler type functions and their properties", Palestine Journal of Mathematics (American University of Sharjah, Dept. of Mathematics), Vol. 4(2) (2015), 367–373.
4. Sanjay Bhattar and Sheikh Mohammed Faisal, "Fractional Integral Transformations of Mittag-Leffler Type E-function", South East Asian Journal of Mathematics and Mathematical Sciences Vol. 11, No.1,31-38/ 2015
5. HS Parihar, R Agarwal, GS Paliwal, Families of Multivalent Analytic Functions Associated with the Convolution Structure, Journal of Progressive Research in Mathematics, 6 (1), 741-745 (2015).
6. Ritu Agarwal , Sonal Jain and R. P. Agarwal , Solution of Fractional Volterra Integral Equation and Non-Homogeneous Time Fractional Heat Equation using Integral Transform of Pathway Type , Progress in Fractional Differentiation and Applications, 1(3), 145-155 (2015).
7. VARUN JINDAL and S. Kundu, Nuclear and reflexive properties of some locally convex topologies on $C(X)$, Boll. Unione Mat. Ital., 8(4): 315-320, 2016.

Membership of Professional Bodies

S. No.	Name of Faculty	Membership
1.	Dr. Ritu Agarwal	Vijnana Parishad of India, Orai, UP, INDIA

DEPARTMENT OF MECHANICAL ENGINEERING

Research Papers Published in International Journals:

1. Dangayach, G.S. and Gupta, P., Optimization of burning loss in reheating furnace of hot rolling mill using Taguchi technique, *Int. J. Business Excellence*, 10, 2, 152–161, (2016).
2. Jain, R., Meena, M. L., and Dangayach, G. S., Need of Agriculture Hand Tool Design Using Quality and Ergonomics Principles, *Lecture Notes in Mechanical Engineering*, 23, 77-84, (2016).
3. Dangayach, G.S. and Guglani, L., Application of Moldflow and Taguchi technique in improving the productivity of injection molded energy meter base, *International Journal of Process Management and Benchmarking*, 5, 3, 375–385, (2015).
4. Gupta, S., Dangayach, G. S., and Singh, A. K., Key Determinants of Sustainable Product Design and Manufacturing, *Procedia CIRP (Elsevier Publication. indexed by Scopus)*, 26, 99-102, (2015).
Dangayach, G.S. and Jain, A., Demurrage cost reduction in cement manufacturing plant, *International Journal of Services and Operations Management*, 22, 3, 363–393, (2015).
5. Alok Manas Dubey, Ghanshyam Das Agrawal, Suresh Kumar (2016), “Performance evaluation and optimal configuration analysis of a transcritical carbon dioxide/propylene cascade system with vortex tube expander in high-temperature cycle” *Clean Technology Environment Policy*, 18(1):105-122
6. Anuj Mathur, Ankit Kumar Surana, Poonam Verma, Sanjay Mathur, G. D. Agrawal, Jyotirmay Mathur, (2015) “Investigation of soil thermal saturation and recovery under intermittent and continuous operation of EATHE” *Energy and Buildings*, 109, 291–30.
7. A. Dinker, Madhu Agrawal, G.D. Agrawal (2015), “Heat storage materials, geometry and applications: A Review”, *Journal of the Energy Institute*.
8. Gaurav Gupta, G.D. Agrawal, (2015), “Solar energy installation and tariff options in India: Central v/s state government”, *International Journal of Research in Engineering and Technology*, (communicated).
9. Bhupesh Kumar Yadav, G.D. Agrawal, (2015), “The design of earth air tunnel heat exchanger system for an institute library”, *International Journal of Scientific Engineering & Technology*, 2277-1581.
10. S Dhaka, J Mathur, V Garg, A Wagner, GD Agarwal, (2015). “Study of thermal environment and energy savings considering adaptive thermostat control: a case study of an air conditioned office building in composite climate of India” *Communicated*
11. R. Chedwal, J Mathur, G. D. Agarwal, S. Dhaka, (2015) “Energy Saving Potential Through Energy Conservation Building Code and Advance Energy Efficiency Measures in Hotel Buildings of Jaipur City, India“, *Energy and Buildings*, 92, 282-295
12. Gupta H. K, Agrawal G. D., J. Mathur. (2015). “An experimental investigation of a low temperature Al₂O₃-H₂O nanofluid based direct absorption solar collector”, *Solar Energy* 118 (2015) 390–396
13. Panwar, A., Nepal, B.P., Jain, R. and Rathore, A.P.S., 2015. On the adoption of lean manufacturing principles in process industries. *Production Planning & Control*, 26(7), pp.564-587.
14. Panwar, A., Jain, R. and Rathore, A.P.S., 2015. Lean implementation in Indian process industries—some empirical evidence. *Journal of Manufacturing Technology Management*, 26(1), pp.131-160.
15. Siddh, M.M., Soni, G. and Jain, R., 2015. Perishable food supply chain quality (PFSCQ) A structured review and implications for future research. *Journal of Advances in Management Research*, 12(3), pp.292-313.
16. Panwar, A., Jain, R. and Rathore, A.P.S., 2015. A survey on the adoption of lean practices in the process sector of India with a comparison between continuous and batch process industries. *International Journal of Manufacturing Technology and Management*, 29(5-6), pp.381-401.
17. Ankit Agarwal, S. L. Soni, Dinesh Kumar Sharma, Sandeep Kumar Bhaskar, “Effect Of Variation Of Compression Ratio And Injection Pressure On Performance and Emission Characteristics of CI Engine Using



Various Alternative Fuels: A Review “paper id 20150401130 published in IJRET Volume-04 Issue-01.

18. Bhupesh Kumar Yadav , S. L. Soni, “Experimental Study of the Performance of Cooling Tower”, International Journal of Science and Research (IJSR) ISSN (Online): 2319-7064.(August2015)
19. D.K. Jamuwa, D. Sharma , S.L. Soni, “Experimental investigation of performance, exhaust emission and combustion parameters of stationary compression ignition engine using ethanol fumigation in dual fuel mode” Energy Conversion and Management (Elsevier) 115 (2016) 221–231.
20. D. K. Jamuwa, D. Sharma & S. L. Soni, “Performance, emission and combustion analysis of an ethanol fuelled stationary CI engine”, Biofuels, Taylor & Francis (April 2016).
21. Dheeraj Kishor Johar , Dilip Sharma, Shyam Lal Soni, Pradeep K. Gupta, Rahul Goyal, “Experimental investigation on latent heat thermal energy storage system for stationary C.I. engine exhaust”, Applied Thermal Engineering(Elsevier), Volume 104, 5 July 2016, Pages 64–73.
22. Swati Gangwar, Amar Patnaik, I. K. Bhat. (2015). Tribological and Thermo-mechanical analysis of CaO particulate filled ZA-27 alloy composites for bearing application, Journal of Materials: Design and Applications. DOI: 10.1177/1464420715609196.
23. Sachin Tejyan, Amar Patnaik. (2015). Erosive wear behavior and dynamic mechanical analysis of textile material reinforced polymer composites, Polymer Composites. DOI 10.1002/pc.23798.
24. Swati Gangwar, Amar Patnaik, I. K. Bhat. (2015). Tribological and Microstructure Behavior of Quicklime (CaO) Filled Silicon Bronze Alloy for Bearing Material, Silicon, DOI 10.1007/s12633-015-9352-1.
25. Tej Singh, Amar Patnaik, Ranchan Chauhan, (2016). Optimization of tribological properties of cement kiln dust-filled brake pad using grey relation analysis, Materials and Design, vol. 89, PP.1335–1342
26. M. J. Pawar, Amar Patnaik, Ravindra Nagar. (2016). Numerical Simulation and Experimental Validation of Granite Powder Filled Jute Epoxy Composite for Slurry Jet Erosive Wear. International Polymer Processing, International Polymer Processing DOI 10.3139/217.3135.
27. Shiv Ranjan Kumar, Amar Patnaik, I K Bhat. (2016). The in vitro wear behavior of nanozirconia filled dental composite in food slurry condition. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology DOI: 10.1177/1350650116641329.
28. Amit Aherwar, Amit Singh, Amar Patnaik. (2016). Study on Mechanical and Wear Characterization of Novel Co30Cr4Mo Biomedical Alloy with Added Nickel under Dry and Wet Sliding Conditions Using Taguchi Approach. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications. DOI: 10.1177/1464420716638112
29. Shiv Ranjan Kumar, Amar Patnaik, I K Bhat, Tej Singh. (2016). Optimum selection of nano- and micro-sized filler for the best combination of physical, mechanical, and wear properties of dental composites. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications. DOI: 10.1177/1464420716629825.
30. Amit Aherwar, Amit Singh, Amar Patnaik “Current and Future Biocompatibility Aspects of Biomaterials for Hip Prosthesis”, (Published Journal on Bioengineering, 3(1): 1-22). DOI:10.3934/bioeng.2016.1.1.
31. Kailash Chaudhary and Himanshu Chaudhary , "Computer aided design of links in planar mechanisms" , International Journal of Advance Engineering and Research Development (IJAERD) Volume :3 / 369-378 / 2016 ISBN: ISSN: 2348-6406
32. Kailash Chaudhary and Himanshu Chaudhary , "Optimal dynamic balancing and shape synthesis of links in planar mechanisms" , Mechanism and Machine Theory Volume :93 / 127-146 / 2015 ISBN: 0094-114X
33. Kailash Chaudhary and Himanshu Chaudhary , "Shape Optimization of Dynamically Balanced Planar Four-bar Mechanism" , Procedia Computer Science Volume :57 / 519-526 / 2015 ISBN: ISSN: 1877-0509
34. Vinay Gupta, Himanshu Chaudhary and Subir K. Saha , "Dynamics and actuating torque optimization of planar robots" , Journal of Mechanical Science and Technology Volume :29 / 2699-2704 / 2015 ISBN: ISSN1738-494X

35. Kailash Chaudhary and Himanshu Chaudhary , "Optimal Dynamic Design of Planar Mechanisms using Teaching-learning-based Optimization Algorithm" , Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science Volume :00/00-00/2015 ISBN: ISSN: 0954-4062
36. Kailash Chaudhary and Himanshu Chaudhary , "Optimal Design of Planar Slider-crank Mechanism Using Teaching-learning-based Optimization Algorithm" , Journal of Mechanical Science and Technology Volume :00/00-00/2015 ISBN: ISSN: 1738-494X
37. Kailash Chaudhary and Himanshu Chaudhary , "Dynamic balancing and link shape synthesis of slider-crank mechanism for multi-cylinder engines" , International Journal of Mechanisms and Robotic Systems, in Press Volume :00/00-00/2015 ISBN: 2047-7252
38. Kailash Chaudhary and Himanshu Chaudhary , "Optimum Balancing of Slider-crank Mechanism using Equipomental System of Point-masses" , Procedia Technology Volume :14 / 35-42 / 2015 ISBN: ISSN: 2212-0173.
39. Surya Prakash, Gunjan Soni, Ajay Pal Singh Rathore , "Risk analysis and mitigation for perishable food supply chain: A case of dairy industry " , Benchmarking: An International Journal, Accepted, ISBN: 14635771.
40. Gunjan Soni, Kalluri Vinayak and Aditya Tyagi , "A Multi-criteria Decision Model for the Selection of Professional Service Innovative Organisation" , International Journal of Services and Operations Management, Accepted, ISBN: 17442370.
41. Gunjan Soni and Ramababu Kodali , "Interpretive structural modeling and path analysis for proposed framework of lean supply chain in Indian manufacturing industry" , Journal of Industrial and Production Engineering, Accepted, ISBN: <http://dx.doi.org>
42. Gunjan Soni and Rambabu Kodali , "Path analysis for proposed framework of SCM excellence in Indian manufacturing industry" , Journal of Manufacturing Technology and Management, Acceted, ISBN: 1741038X
43. Surya Prakash, Gunjan Soni and Ajay Pal Singh Rathore , "Multi-echelon Closed-Loop Supply Chain Network Design and Configuration under Supply Risks and Logistics Risks" , International Journal of Logistics Systems and Management, Accepted, ISBN: 17427975.
44. Surya Prakash , Gunjan Soni and Ajay Pal Singh Rathore , "A grey based approach for assessment of risk associated with facility location in global supply chain" , Grey Systems: Theory and Application, Volume 5, pp. 419, 2015, ISBN: 2043-9377.
45. Man Mohan Siddh , Gunjan Soni and Rakesh Jain , "Perishable food supply chain quality (PFSCQ): A structured review and implications for future research" , Journal of Advances in Management Research Volume :12, pp. 292, 2015, ISBN: 0972-7981
46. Anurag Dixit, Harlal Singh Mali and R. K. Misra, 2015, "Investigation on the Thermo Mechanical Behavior of 2×2 Twill Woven Fabric Advanced Textile Composite", Mechanics of Composite Materials ISSN: 0191-5665, Vol. 51, Issue-2, and pp: 253-264.
47. A, Dixit; R K, Misra; H S, Mali, 2015, "indenters", Materials Science & Engineering Technology (Materialwissenschaft und Werkstofftechnik), ISSN: 1521-4052, Vol. 46, Issue-10, pp: 1014–1028.
48. Deepak Rajendra Unane, Vijay Pratap Singh, Harlal Singh Mali, 2015, "Experimental Investigations of Abrasive Mixed Electro Discharge Diamond Grinding of Nimonic 80A" International Journal of Materials and Manufacturing Processes, eISSN: 1532-2475, ISSN: 1042-6914 Doi:10.1080/10426914.2015.1090598.
49. Sambharia, J; Mali, HS, 2015, "Characterization and Performance Evaluation of Developed Alternative Polymer Abrasive Gels for Abrasive Flow Finishing Process" International Journal of Precision Technology, ISSN: 1755-2079, Vol. 5, Nos. 3/4, pp 185-200.
50. Deepak Rajendra Unune, Harlal Singh Mali, 2015, "Artificial neural network–based and response surface methodology–based predictive models for material removal rate and surface roughness during electro-



discharge diamond grinding of Inconel 718" Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, eISSN: 20412975, ISSN: 0954-4054 , doi:10.1177/0954405415619347.

51. Rahul Goyal, Dilip Sharma, S.L. Soni, Pradeep Gupta, Dheeraj Johar, "An Experimental Investigation of CI Engine Operated Micro-Cogeneration System for Power and Space Cooling" Energy Conversion and Management, (Elsevier) Vol. 89 (2015), pp 63-70. ISSN: 0196-8904 [Impact Factor-3.590]SCI
52. Rahul Goyal, Pradeep Gupta, Dheeraj Johar, Dilip Sharma and S.L. Soni, "Performance and Emission analysis of CI Engine Operated Micro-Trigeneration System for Power, Heating and Space Cooling" Applied Thermal Engineering, (Elsevier) Vol.75, pp817-825, ISSN: 1359-4311. [Impact Factor-2.88]SCI
53. Deepesh Sonar, S. L. Soni, Dilip Sharma, Anmesh Srivastava and Rahul Goyal "Performance and emission characteristics of a diesel engine with varying injection pressure and fuelled with raw mahua oil (preheated and blends) and mahua oil methyl ester" Clean Technologies and Environmental Policy, (Springer) ISSN: 1618-954X (print version) ISSN: 1618-9558 (electronic version) [Impact Factor-1.671]SCI
54. Vinod Singh Yadav, S.L. Soni and Dilip Sharma, "Performance and Combustion Analysis Hydrogen-Fuelled C.I. Engine with EGR" International Journal of Hydrogen Energy, Vol. 40(12), 4382-4391, 2015. ISSN: 0360-3199. [Impact Factor-4.42] SCI

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1. Gidwani, B. D., and Dangayach, G. S., Some Issues in Productivity Measurement in Automotive Industry, Industrial Engineering Journal, 8, 11, 11-16, (2015).
2. Kumar, Dinesh and Sharma Kanishk, (2011), Thermal and Mechanical Analysis of FGM Beam Using Generalized Theory, Journal of Aerospace Sciences and Technologies, Aeronautical Society of India, Paper No. 913 (accepted).
3. Swati Gangwar, Amar Patnaik, I.K. Bhat, Mechanical and Fracture analysis for Calcium Oxide filled ZA-27 Metal Alloy Composites for Single Row Deep Groove Ball Bearing, International conference on Emerging and Futuristic trends in Engineering & Technology, Maharaja Agrasen University, Solan, HP, 8-9 May 2015,
4. Swati Gangwar, Amar Patnaik, I.K. Bhat, Physical ,mechanical and tribological properties of particulate filled metal alloy composites for bearing applications: A Review, International conference on Newest drifts in mechanical engineering, December 20-21 2014, Department of mechanical engineering, Maharishi Markandeshwar University, Mullana, Ambala, Haryana-133207.
5. Swati Gangwar, Amar Patnaik, I.K. Bhat, Surface Wear Behavior of Marble Dust (Stone waste) Filled ZA-27 Alloy Composites for Bearing Material, International Conference on Multifunctional Materials for Future Applications, IIT BHU, oct.27 – 29, 2015
6. Chandramani Goswami, Amar Patnaik, I. K. Bhat, "Tribological Simulation and Biomechanical Function of Patellofemoral Joint Replacement Using Finite Element Method" International Conference on Emerging and Futuristic Trends in Engineering & Technology by Maharaja Agrasen University at Solan HP, 8-9 May 2015
7. Ashwani Kumar, Amar Patnaik, I. K. Bhat, "Mechanical and Wear Characterization for Metal Matrix Composite Material for Bevel Gear Application- a Review" International Conference on Emerging and Futuristic Trends in Engineering & Technology by Maharaja Agrasen University at Solan HP, 8-9 May 2015.
8. Vikash Gautam, Amar Patnaik, I. K. Bhat, "Slurry Erosion Performance of Multilayer Coated 1050 Aluminum Alloy Composites" International Conference on Emerging and Futuristic Trends in Engineering & Technology by Maharaja Agrasen University at Solan HP, 8-9 May 2015.
9. Shiv Ranjan Kumar, Amar Patnaik I.K. Bhat, "Water Sorption and Solubility Behavior of Dental Composites Reinforced With Nanotitania Filler" International Conference on Emerging and Futuristic Trends in Engineering & Technology by Maharaja Agrasen University at Solan HP, 8-9 May 2015.

List of Papers Presented at International Conferences:-

1. Gupta, S., Dangayach, G. S., Singh, A. K., and Rao, P. N., A Pilot Study of Sustainable Machining Process Design in Indian Process Industry, Published in proceedings of CAD/CAM, Robotics and Factories of the Future (Springer India, Indexed by Scopus), 379-385, (2016).
2. Jain, R., Meena, M. L., and Dangayach, G. S., Need of Agriculture Hand Tool Design Using Quality and Ergonomics Principles, Published in proceedings of 28th International Conference on CAD /CAM, Robotics and Factories of the Future (CARs & FoF) 2016, College of Engineering and Management at Kolaghat, (2016).
3. Gupta, S., Dangayach, G. S., Singh, A. K., and Rao, P. N., Some Issues in Sustainable Supply Chain Management: A Literature Review, Published in proceedings of International Conference on Energy and Environment, during 17-18 January 2015 at KITE, Jaipur, (2015).
4. Jain, R., Meena, M. L., and Dangayach, G. S., Investigating Agriculture Farmers Working on Hand Tools in Rajasthan, Published in proceedings of HWWE 2015, IIT Mumbai, (2015).
5. Sain, M. K., Meena, M. L., and Dangayach, G. S., and Bhardwaj, A., A Brief Procedure for Ergonomic Design of Hand Tool for Small Scale Industries, Published in proceedings of HWWE 2015, IIT Mumbai, (2015).
6. Agrawal G. D. and Gaurav Gupta (March 2015), "Grid Integration of Solar PV Plant in India: Development and Challenges", National Conference on Advances in Refrigeration & Energy Systems 2015, Poornima college of Engineering, Rajasthan.
7. Rahul Goyal, Dilip Sharma, S.L. Soni, Pradeep Gupta, Dheeraj K. Johar, " Experimental Optimization of CI Engine Operated Micro-Trigeneration System for Power, Heating and Space Cooling", 14th International Conference on Sustainable Energy Technologies, Nottingham, U.K., August 25 – August 27, 2015. paper no. 2019
8. Pradeep Gupta, Shyam Lal Soni, Dilip Sharma, Rahul Goyal, Dheeraj Kishore Johar, Ashok Singh Tanwar, Anmesh Kumar Srivastava," Experimental Investigation of Impact of Diesel Particulate Filter on Performance and Emissions of a Bharat Stage-1 C.I Engine", 14th International Conference on Sustainable Energy Technologies, Nottingham, U.K., August 25 – August 27, 2015. Paper no. 341
9. Akhileshwar Singh, Dinesh Kumar, Ashish Kumar Srivastava (2015), Mechanical Behavior of Double-Walled Carbon Nanotubes using Molecular Dynamics; The 60th Congress of The Indian Society of Theoretical and Applied Mechanics (An International Conference), held at MNIT Jaipur, December 16-19, 2015 (Paper no.: 60-istam-sm-fp-183).
10. Srivastava A. and Kumar D. (2015), "Buckling Behavior of 3D Randomly Oriented CNT Reinforced Nanocomposite Plate". Excerpt from the Proceedings of the 2015 COMSOL Conference in Pune. Oct 29-30, 2015.
11. Srivastava A., Mokhalingam A., Singh A., Kumar D.(2015), "Molecular Dynamics Study of Mechanical Properties of Carbon Nanotube Reinforced Aluminum Composites" International Conference On Condensed Matter & Applied Physics (ICC 2015), ECB Bikaner, Oct 30-31, 2015.
12. Sharma K., Dinesh Kumar and Anil Gite, (2015), "Thermo-Mechanical Buckling Analysis of FGM Plate using Generalized Plate Theory," ICC-2015, ECB, Bikaner, October 30-31, 2015.
13. Babalu Kumar, Kanishk Sharma and Dinesh Kumar (2015), Evaluation of stress intensity factor in functionally graded material (FGM) plate under mechanical loading, Proceedings of The 60th Congress of The Indian Society of Theoretical and Applied Mechanics (An International Conference), held at MNIT Jaipur, December 16-19, 2015 (Paper no.: 60-istam-sm-fp-11).
14. Anil Gite, Kanishk Sharma and Dinesh Kumar (2015), Stability analysis of FGM plate under in-plane compressive load, Proceedings of The 60th Congress of The Indian Society of Theoretical and Applied Mechanics (An International Conference), held at MNIT Jaipur, December 16-19, 2015 (Paper no.: 60-istam-sm-fp-136).



15. A. Mokhalingam, Dinesh Kumar, Ashish Srivastava (2015), "Mechanical Behavior of Graphene Reinforced Aluminum Nanocomposites", 5th International Conference on Materials Processing and Characterization (ICMPC 2016) held during 12–13 March 2016 in Hyderabad. (Paper no. 1737, page # 195).
16. Devi Singh Kumani and Himanshu Chaudhary, "Point Mass Models for Dynamic Balancing of Industrial Manipulators Using Genetic Algorithm" Proceedings of the 28th International Conference on CAD /CAM. Robotics and Factories of the Future (CARs & FoF) 2016 by Springer at College of Engg & Management Kolagat, West Bengal / 287-297 / 2016
17. Ramanpreet Singh, Himanshu Chaudhary, Amit Kumar Singh, "Sagittal Position Analysis of Gait Cycle for a Five Link Biped Robot" Proceedings of the 28th International Conference on CAD /CAM. Robotics and Factories of the Future (CARs & FoF) 2016 by Springer at College of Engg & Management Kolagat, West Bengal / 387-396 / 2016
18. Vinay Gupta, S. K. Saha, Himanshu Chaudhary, "Link Shape Optimization for Input Torque Reduction" 2st International and 17th National Conference on Machine and Mechanisms (iNaCoMM2015) by IIT Kanpur at IIT Kanpur / 0-0 / 2015
19. Kailash Chaudhary, Himanshu Chaudhary, "Optimum Dynamic Balancing of a Planar Five-Bar Mechanism Using Genetic Algorithm" International Conference on Advances in Materials and Product Design (AMPD 2015) by NIT Surat at NIT Surat / 73-80 / 2015
20. Devi Singh Kumani, Himanshu Chaudhary, "Dynamic Balancing of Industrial Manipulators Using Octahedron Point-Mass Model" International Conference on Advances in Materials and Product Design (AMPD 2015) by NIT Surat at NIT Surat / 1-8 / 2015
21. Devi Singh Kumani, Himanshu Chaudhary, "Hexahedron Point Mass Model and Teaching Learning Based Optimization for Balancing of Industrial Manipulators" 2nd International and 17th National Conference on Machines and Mechanisms (iNaCoMM2015) by IIT Kanpur at IIT Kanpur / 28-36 / 2015
22. Bhargav Prajwal, Dr. Harlal Singh Mali, Rohit, Ankit, Sandeep, Manish, 2015, "Study & analysis of various marble cutters used in stone and marble Industry of Rajasthan", in Proceedings of the International Conference on PRECISION, MESO, MICRO, AND NANO ENGINEERING (COPEN-9), 10-12 Dec 2015, Department of Mechanical Engineering, IIT Bombay, India, Vo. 1,
23. Jaikishan Sambharia, Harlal S. Mali, Jasa Ram, 2015, "Rheological Investigation and Comparative Study on Synthesized Low Cost Consumables for Abrasive Flow Finishing Processes", in Proceedings of the International Conference on PRECISION, MESO, MICRO, AND NANO ENGINEERING (COPEN-9), 10-12 Dec 2015, Department of Mechanical Engineering, IIT Bombay, India, Vo. 1,
24. Harlal Singh Mali, Deepak Rajendra Unune, Vijay Pratap Singh, "Parametric Analysis of Powder Mixed Electro Discharge Diamond Grinding of AISI D3 Die Steel", in Proceedings of the International Conference on PRECISION, MESO, MICRO, AND NANO ENGINEERING (COPEN-9), 10-12 Dec 2015, Department of Mechanical Engineering, IIT Bombay, India, Vo. 1.
25. Deepak Rajendra Unune, Harlal Singh Mali, "Performance Investigations of Different Electrode Materials in Micro-EDM Drilling of Inconel-718", in Proceedings of the International Conference on PRECISION, MESO, MICRO, AND NANO ENGINEERING (COPEN-9), 10-12 Dec 2015, Department of Mechanical Engineering, IIT Bombay, India, Vo. 1.
26. Rahul Goyal, Dilip Sharma, S. L. Soni, Pradeep K Gupta, and Dheeraj Johar, "Experimental Optimization of CI Engine Operated Micro-Trigeneration System for Power, Heating and Space Cooling" 14th International Conference on Sustainable Energy Technologies" University of Nottingham, UK, 25–27 August 2015.

List of Papers Presented at National Conferences:-

1. Srivastava A. and Kumar D. (2015) "Stress-Strain Behavior of Carbon Nanotube under Compressive

- Loading" 8th National Conference on Thermophysical Properties. (NCTP-2015). MNIT Jaipur, Dec 14-16, 2015.
2. Sharma K., and Dinesh Kumar (2015), "Thermo-Mechanical Analysis of FGM Plate," NCTP-2015, MNIT, Jaipur, December 14-16, 2015.
 3. Chitresh Nayak, Amit Singh, Himanshu Chaudhary , "Stress Analysis of Transtibial Prosthetic Socket Thickness Using Finite Element Method" Indian Conference on Applied Mechanics (INCAM) 2015 by IIT Delhi at IIT Delhi // 2015
 4. Chitresh Nayak, Amit Singh, Himanshu Chaudhary , "Mesh Generation From Point Cloud Data for Transtibial Prosthesis Socket Using Altair Hypermesh" Altair Technology Conference 2015 (I-ATC2015) by Altair at Bangalore, India // 2015
 5. Jaikishan, Mali, HS, 2015, "Abrasive Flow Finishing Process -A sustainability Study". In: Proceedings of the National Conference on Sustainable Manufacturing, 02-03 Jan, 2015, Department of Management Studies, MNIT Jaipur.

Monographs Published

S. No.	Title	Author	Publisher
1.	Effect of Fabrication and Characterization of Quicklime (CaO) filled ZA-27 Metal Alloy Composites for Single Row Deep Groove Ball Bearing	Amar Patnaik, I.K. Bhat, Swati Gangwar	Wiley Scrivener publisher
2.	Investigation of wear characteristics of dental composite reinforced with rice husk derived nanosilica filler Particles	I.K. Bhat, Amar Patnaik, Shiv Ranjan Kumar	Wiley Scrivener publisher

Membership of Professional Bodies

S. No.	Name of Faculty	Name of the Society	Membership
1.	Prof. Rakesh Jain	Indian Institute of Industrial Engineering (IIIE)	
2.	Prof. S.L. Soni	Life member ISTE, No. 5491	No. 5491
3.	Prof. S.L. Soni	Life member Indian Association for Air Pollution Control, No. 264.	No. 264.
4.	Prof. S.L. Soni	Life Member of "The Combustion Institute (Indian section), No. LMC 775	No. LMC 775
5.	Prof. S.L. Soni	Member Society for Automotive Engineers (SAE).M., No7130310580.	No7130310580.
6.	Prof. S.L. Soni	Associate Member of "ISHRAE, No. JP/00/AS/0108	No. JP/00/AS/0108
7.	Amar Patnaik	ISTE	LM 36538
8.	Amar Patnaik	Tribology Society of India	LM 3950
9.	Amar Patnaik	Electron Microscope Society of India	LM-419
10.	Dr. Harlal Singh Mali	Society of Manufacturing Engineers	
11.	Dr. Harlal Singh Mali	The Institution of Engineers (India)	



12.	Dr. Harlal Singh Mali	Indian Society for Technical Education	
13.	Dr. Harlal Singh Mali	Society of Automotive Engineers (SAE)	
14.	Dr. Harlal Singh Mali	Autodesk Certified Instructor (ACI) & Autodesk Certified Evaluator (ACE)	
15.	Prof. Dilip Sharma	Life Member of ISTE No. LM 21572	
16.	Prof. Dilip Sharma	Life Member of “The Combustion Institute (Indian section)”, No. LMC 1026	
17.	Prof. Dilip Sharma	Member “Society of Automotive Engineers”, No. 7009310155	
18.	Prof. Dilip Sharma	Member of World Society of Sustainable Energy Technologies	
19.	Dr. Gunjan Soni	IIIE, Senior Member	

Any other details worth publication in Annual Report 2015-16**Prof. G. S. Dangayach**

- 1) Appointed Chairman, Rajasthan State Center, The Institution of Engineers (India), for the term 2014-2016.
- 2) Member of Production Engineering Division Board, The Institution of Engineers (India), for term 2015-16
- 3) Reviewer of 29 International Journals
- 4) Guest Editor of Three International Journals viz.
 - a. Production Planning & Control published by Taylor & Francis (SCI listed International Journal)
 - b. International Journal of Manufacturing Technology & Management (IJMTM) for Special Issue on “Manufacturing Strategy”
 - c. International Journal of Business Performance Management (IJBPM) for Special Issue on “Manufacturing Strategy”
- 5) On Editorial board of International Journal of Business & Systems Research (IJBSR)
- 6) On Editorial board of International Journal of Global Business and Competitiveness
- 7) On Editorial board of West Indian Journal of Engineering

Editor of Journal of Entrepreneurship

Dr Harlal Singh Mali - Six Students of The Ohio State University, Columbus, USA Completed their 10 weeks internship as part of one year NSF Project at Advanced Manufacturing & Mechatronics Lab of Mechanical Engineering Department.



Patents filed by the department /faculty

S. No.	Patent brief detail	Inventors	Status (filed/accepted)	Publication Year
1	e-Bike Electrically Powered Multi-utility Bicycle (No. 201611015177) by: Dr. Dinesh Kumar; Dr. Rajesh Kumar; Mr. Devang Darode; Mr. Mitesh Rajput; Mr. Mandeep Singh Kapoor		Filed	2016
2.	Marble dust reinforced copper alloy composite fabrication	Ms. Swati Gangwar Prof. I.K. Bhat, Dr Amar Patnaik	Accepted	1319/DEL/ 2015
3.	Polymeric dental composites fabrication adding new filler Gypsum	Mr. Shiv Ranjan Kumar Dr Amar Patnaik Prof. I.K. Bhat	Accepted	1321/DEL/ 2015
4.	Granite powder reinforced hydraulic turbine blades or Granite powder reinforced aluminum alloy composites	Mr. Vikash Gautam Prof. I.K. Bhat, Dr Amar Patnaik	Accepted	1320/DEL/ 2015
5.	Wear resistant composite laminate or erosion wear resistant polymer composite laminate	Mr. M. J. Pawar Dr. Amar Patnaik Prof. Ravindra Nagar	Accepted	1322/DEL/ 2015
6.	Development and characterization of self healing and antibacterial dental material	Prof. I.K. Bhat, Dr. Amar Patnaik, Mr. Shiv Ranjan Kumar	Accepted	201611002 648
7.	Slurry erosion wear assessment of marble dust powder reinforced aluminum alloy composites hydraulic turbine blade	Prof. I.K. Bhat, Dr. Amar Patnaik, Mr. Vikash Gautam	Accepted	201611002 651
8.	Dry sliding wear assessment of Nickel metal powder reinforced aluminum alloy composites for gear applications	Dr. Amar Patnaik, Prof. I.K. Bhat, Mr. Ashwani Kumar	Accepted	201611002 649
9.	A base material and a system for finishing workpiece(s)	Harlal Singh Mali	Filed	07 Jan 2011
10.	Design of a System for Finishing Complicated Workpiece(s) using Abrasive Laden Base Material	Harlal Singh Mali, Jai Kishan, Jitender	Filed	01 Apr 2016
11.	Anti theft fuel tap for two wheelers	Dilip Sharma	Accepted	201611015 178



DEPARTMENT OF MANAGEMENT STUDIES

Research Papers Published in International Journals:

1. Satish Kumar and Purnima Rao (2015), "A conceptual framework for identifying financing preferences of SMEs", Small Enterprise Research, Volume 22 pp. 1-15.
2. Kumar, Satish and Purnima Rao (2016), "Financing patterns of SMEs in India during 2006 to 2013 – an empirical analysis", Journal of Small Business & Entrepreneurship, Volume 28 pp.97-131
3. Kumar, Satish, Colombage, Sisiria and Rao, Purnima (2016) ,"Research on Capital Structure Determinants: A Review And Future Directions" , International Journal of Managerial Finance ISBN: 1743-9132[Forthcoming]
4. Gupta, S., Sharma, M. & Vijayasunder, M. (2016), Lean Services: A Systematic Literature Review. International Journal of Productivity and Performance Management, 65(8)
5. Premi, H, Sharma, M, Dangayach, G.S, Bharadwaj, A, Meena, M.L (2015) "Green Marketing : an overview", IMR, Management Speak, 8 (1),1-4

List of Papers Presented at International Conferences:

1. Satish Kumar (2015) “The Significance of Working Capital Management and its Components on SMEs Performance - Evidence From India” 16th International Academic Conference at Amsterdam, Netherland during May 12-16, 2015, Vol. 1, pp. 279-295.

List of Papers Presented at National Conferences

1. Harsh Pratap Singh and Kumar Satish (2015) “Working Capital Management and Firm Profitability: A Meta-Analysis” paper presented in The 15th Consortium of Students in Management Research (COSMAR15) at IISc, Bangalore during 24th & 25th November 2015.
2. Gupta S and M Sharma ,"Application of Lean Services" National Conference on Futuristic Approaches in Civil & Mechanical Engg at MAIET ,Jaipur , 2015
3. H Premi and Sharma M ,"Green Supply Chain Management: An Overview" National Conference on Futuristic Approaches in Civil & Mechanical Engg at MAIET, Jaipur, 2015

Membership of Professional Bodies

S. No.	Name of Faculty	Membership
1.	Dr. Deepak Verma	<ol style="list-style-type: none"> 1. Member, Inderscience Database of Reviewers, Inderscience Publishers, Geneva, Switzerland 2. Member, Editorial Review Panel, Journal of Electronic Commerce Research, California State University, Long Beach, California, USA 3. Member, Editorial Review Panel, Journal of Information, Information Technology and Organizations, Informing Science Institute, Santa Rosa, CA, USA 4. Member, Editorial Review Panel, Interdisciplinary Journal of Information, Knowledge and Management, Informing Science Institute, Santa Rosa, CA, USA

DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING

Research Papers Published in International Journals:

1. P. K. Sain, R. K. Goyal, Y.V.S.S. Prasad, Jyoti, K.B. Sharma and A. K. Bhargava, "Few-layer-graphene/Polycarbonate nanocomposites as dielectric and conducting material, Journal of Applied Polymer Science, 2015, DOI:10.1002/APP.42443
2. P. K. Sain, C. P. Sharma and A. K. Bhargava, "Influence of Chromium and Nickel Variation on the Microstructure, Carbide Morphology and Corrosion Behavior in Fe-Mn-Cr-Cu based Austenitic White Irons, International Journal of Cast Metals Research, 2015, DOI: 10.1080/13640461.2015.115.1151144. ISSN:1364-0461(Print) 1743-1336(Online)
3. A Chakravarty and SK Biswas, "Enrichment of metallic single walled carbon nanotubes with simultaneous purification by nitric acid treatment", Fullerenes, Nanotubes and Carbon Nanostructures. 23(6)542-548 (2015).
4. Avnish Kumar, Ashok Sharma, S.K. Goel "Erosion behavior of WC-10Co-4Cr coating on 23-8-N nitronic steel by HVOF thermal spraying", Applied Surface Science 370 (2016) 418-426. (SCI)
5. Kamlesh Verma, Ravi Agarwal, R.K. Duchaniya, Ramvir Singh, "Measurement and Prediction of Thermal Conductivity of Nanofluids Containing TiO₂ Nanoparticles", JOURNAL of NANOSCIENCE and NANOTECHNOLOGY, Volume: 16, Pages001-008.
6. Ravi Agarwal, Kamlesh Verma, Narendra Kumar Agarwal, Rajendra Kumar Duchaniya, Ramvir Singh , "Synthesis, characterization, thermal conductivity and sensitivity of Cu Nanofluids" , Applied Thermal Engineering Volume :102/ 1024-1036/2016 ISBN: 1359-4311
7. N. Sahu, R.K. Duchaniya , "Synthesis of ZnO-CdO Nanocomposites" , Journal of Materials Science & Surface Engineering Volume :1.1 / 11-14/2013
8. Dinesh Saini, R.K. Duchaniya , "ZnO-CdS Powder Nanocomposite: Synthesis, Structural and optical characterization" , Journal of Nano- and Electronic Physics Volume :5.3 / 3015-3019/2013
9. R.K. Duchaniya, Ashok Sharma, M K Totlani, S. Upadhyay , "Morphology and Corrosion study of electroless Ni-P coating on commercial Aluminium alloys", Materials Science Research India Volume :81.2 / 301-307/2011
10. Garrison W.M., and Bannerjee M.K., Martensitic Non-stainless Steels: High Strength and High Alloy. In: Saleem Hashmi (editor-in-chief), Reference Module in Materials Science and Materials Engineering. Oxford: Elsevier; 2016. pp. 1-8.
11. Weber J.H., and Bannerjee M.K., Nickel and Nickel Alloys: An Overview. In: Saleem Hashmi (editor-in-chief), Reference Module in Materials Science and Materials Engineering. Oxford: Elsevier; 2016. pp. 1-3.
12. Weber J.H., and Bannerjee M.K., Nickel-Based Superalloys: Alloying. In: Saleem Hashmi (editor-in-chief), Reference Module in Materials Science and Materials Engineering. Oxford: Elsevier; 2016. pp. 1-6.
13. Bannerjee S. and Bannerjee M.K., Nuclear Applications: Zirconium Alloys. In: Saleem Hashmi (editor-in-chief), Reference Module in Materials Science and Materials Engineering. Oxford: Elsevier; 2016. pp. 1-15.
14. Novotny P.M., and Bannerjee M.K., Tool and Die Steels. In: Saleem Hashmi (editor-in-chief), Reference Module in Materials Science and Materials Engineering. Oxford: Elsevier; 2016. pp. 1-8.
15. Briant C.L., and Bannerjee M.K., Refractory Metals and Alloys. In: Saleem Hashmi (editor-in-chief), Reference Module in Materials Science and Materials Engineering. Oxford: Elsevier; 2016. pp. 1-11.
16. P. Sharma, R. Singhal, R. Vishnoi, R. Kaushik, M.K. Bannerjee, D.K. Avasthi, V. Ganesan, —Ion Track Diameter in Fullerene C70 Thin Film using Raman Active Vibrational Modes of C70 Molecule|| Vacuum 123 (2016) 35.
17. Rahul Sen, Satender Dehiya, Upender Pandel, M.K. Bannerjee "Utilization of Low Grade Coal for Direct



- Reduction of Mill Scale to Obtain Sponge Iron: Effect of Reduction Time and Particle Size”, *Procedia Earth and Planetary Science* 11 (2015) 8 – 14, Elsevier.
18. Nikitha Gade, Gaurav Verma, Rahul Sen, Upender Pandel, “Effect of Calcium Carbonate on the Reduction Behavior of Mill Scale”, *Procedia Earth and Planetary Science* 11 (2015) 319 – 324, Elsevier.
 19. Rupali Baghel, Vatsala Chaturvedi, Bartik Pandel, Upender Pandel, “Utilizing of Mining and Industrial Waste: A Sustainable Approach”, *Procedia Earth and Planetary Science* 11 (2015) 242 – 246, Elsevier.
 20. Satish Tailor, R. M. Mohanty, P. R. Soni and A. V. Doub , "Wear Behavior of Plasma Sprayed Nanostructured Al-SiCp Composite Coatings: A Comparative Study" , *Transactions of The Indian Institute of metals*, Vol. 68, 1020, 2015
 21. S Tailor, RM Mohanty, VK Sharma and PR Soni, “_Nanostructured 2024AlSiCp composite coatings” , *Surface Engineering*, 1-9, 2016
 22. R Jhajharia, D Jain, A Sengar, A Goyal and PR Soni, “Synthesis of copper powder by mechanically activated cementation”, *Powder Technology*, Vol. 301, 10-15, 2016
 23. Vinod Kumar, "Detection and Distribution of Li in Mg-Li-Al based Alloy by ToF-SIMS", Available online 24 March 2016; *Journal of Applied Surface Science* [IF: 2.711], DOI:10.1016/j.apsusc.2016.03.160.
 24. Heena Khnanchandani, Priyanka Sharma, Rupesh Kumar, Ornov Maulik, Vinod Kumar; "Effect of Sintering on Phase Evolution in AlMgFeCuCrNi_{4.75} High Entropy Alloy", *Advanced Powder Technology*, 27 (2016) pp. 289-294 [IF: 2.638]. DOI: 10.1016/j.appt.2016.01.001.
 25. Ornov Maulik, Vinod Kumar; "Microstructure Characterization of AlFeCuCrMg_x (x=0, 0.5, 1,1.7) High Entropy Alloys Synthesized by Mechanical Alloying", *Materials Characterization*, 110 (2015), pp. 116–125 [IF: 1.845]. DOI: 10.1016/j.matchar.2015.10.025.
 26. Nisheeth Kr. Prasad, Vinod Kumar, "Microstructure and Magnetic Properties of Equiatomic FeNiCo Alloy Synthesized By Mechanical Alloying" *Journal of Materials Science: Materials in Electronics* 26 (2015), pp 10109–10118 [IF: 1.569], DOI: 10.1007/s10854-015-3695-7.
 27. Vinod Kumar, R. Shekhar, K. Balani; "Corrosion Behavior of novel Mg-9Li-7Al-1Sn and Mg-9Li-5Al-3Sn-1Zn alloys in NaCl aqueous solution", *Journal of Materials Engineering and Performance*, 24 (2015), pp 4060–4070 [IF: 0.998], DOI: 10.1007/s11665-015-1687-7.
 28. Anil Kumar, L. K. Jangir, Y. Kumari, Manoj Kumar, Vinod Kumar, K. Awasthi; "Optical and Structural Study of Polyaniline/Polystyrene Composite Films", *Macromolecular Symposia*, 357 (2015) pp 229-234. DOI: 10.1002/masy.201500039. Wiley Online Library [IF: 0.913].
 29. Anil Kumar, Amit Kumar Mishra, K. Awasthi, Vinod Kumar, "Thermal stability and electrical properties of polyaniline synthesized by oxidative polymerization method", *Macromolecular Symposia*, 357 (2015) pp 168-172. DOI: 10.1002/masy.201400218 Wiley Online Library [IF: 0.913].

Research Papers Published in National Journals:

1. Sachin Rathi, Ashok Sharma and Marisa Di Sabatino, “Effect of Grain Refinement on Hot Tearing in Aluminium Alloys” *Indian Foundry Journal*, Vol. 61, No. 12, Dec., 2015, pp. 49-51.
2. Prabhat Kr. Dwivedi, Sadhwee Singh, Ashok Sharma and Sharad Prakash “Improving Energy Efficiency in Aluminium Foundry” *Indian Foundry Journal* Vol 61, No. 7, July 2015, pp. 28-32.
3. Rajendra Kumar Duchaniya , "Synthesis of crystalline Ni₃P coating by electroless coating on aluminium substrate" , *Metal News* Volume :11 / 12-14 / 2008
4. Nitika Kundan and PR Soni , "Spark Plasma Sintering- A novel technique for Nanomaterials" , *Metal News* , V 18, 21, 2015

List of Papers Presented at International Conferences:

1. Vibha Uttam, R. K. Duchaniya, "Potentiodynamic Studies of Ni-P-TiO₂ Nano-Composited Coating on the Mild Steel Deposited by Electroless Plating Method" International Conference on Condensed Matter & Applied Physics by American Institute of Physics at Bikaner /--/2015
2. Shrikant, R. K. Duchaniya, U. Pandel, A. K. Nayak, "Quenching Behaviour of Molten Pool With Different Strategies - a Review "International Conference on Condensed Matter and Applied Physics- ICC 2015 by American Institute of Physics at Bikaner //2015
3. Shrikant, R. K. Duchaniya, U. Pandel, Dr. A. K. Nayak, "Studies of Quenching Behaviour of Molten Pool With Different Strategies "International Symposium on Frontier of Molecular Science and Technology by MNIT, Jaipur at Jaipur //2015
4. Vandana Kaler, R. K. Duchaniya, U. Pandel, "Characterization Studies of Titanium Dioxide Nanoparticles " International Symposium on Frontier of Molecular Science and Technology by MNIT, Jaipur at Jaipur // 2015
5. Vandana Kaler, R. K. Duchaniya, U. Pandel, "Synthesis of Titanium Dioxide Nanoparticles via Sol-Gel Method" International Conference on Emerging Technologies: Micro to Nano 2015 by American Institute of Physics at Jaipur //2015
6. Vandana Kaler, R.K. Duchaniya, U. Pandel, "Silver Doped Poly Vinyl Alcohol Nanocomposites" 3rd International Conference on Advance Trends in Engineering & Technology (ICATET) by AICTE at JAIPUR-INDIA/162/2015
7. Shrikant, R.K. Duchaniya, U. Pandel, "Review of Melt Coolability During a Severe Accident for the Current Light Water Reactors (Lwrs)"3rd International Conference on Advance Trends in Engineering & Technology (ICATET) by AICTE at Jaipur /152/2015
8. Vibha Uttam, R. K. Duchaniya, "Surface Modification of Mild Steel by Ni-P-TiO₂ Composite Deposition by Electroless Plating Method "International Symposium on Frontier of Molecular Science & Technology by MNIT, Jaipur at Jaipur /--/2015
9. Rajendra Kumar Duchaniya, "Optical Studies of Chemically Synthesis CdS Nanoparticles" International Conference on Industrial, Mechanical and Manufacturing Engineering ICIMME by International Conference on Industrial, Mechanical and Manufacturing Engineering ICIMME at Pattaya, Thailand / 241 / 2014
10. Dinesh Saini, Rajendra Kumar Duchaniya, Sumita Kachhwaha, "Structural & Optical Properties of ZnO Nanoparticles Prepared by Chemical Precipitation Technique" International Conference on Recent Trends in Applied Physics & Material Science by RAM at Bikaner, India / 241 / 2013
11. R.K. Duchaniya, Ashok Sharma, M.K. Totlani, "Characterization Studies of Electroless Ni-P-SiC Coating on Aluminium" International Conference on Mechanical, Production and Automobile Engg IMPAE by International Conference on Mechanical, Production and Automobile Engg IMPAE at Pattaya, Thailand / 240-242 / 2011
12. Nitika Kundan, Arpit Khemka and P.R. Soni, "Synthesis and Evaluation of Mechanical Behavior of Mechanical alloyed (MA) 6061Al-Al₂O₃ Nanocomposite", International Conference on Powder Metallurgy & Particulate Materials at Pune, 2016
13. Mukesh Suthar and P R Soni, "A study of effect of Nanoparticles addition on Aluminium Paint hardness for Automotive applications", Conference on Advanced Materials and Processing at MNIT Jaipur, 2015.

List of Papers Presented at National Conferences

1. Deformation behavior of ceramic/Al-5083 bilayer composite under bullet impact" Oral Presentation in Indian National Conference on Applied Mechanics held at IIT, Delhi from 13th to 15th July, 2015.



2. Parul Yadav, Vibha Uttam, R. K. Duchaniya , "Characterization Study of Ni-P-TiO₂ Nanocomposite Coating on Mild Steel by Electroless Plating Method" Conference on Advanced Materials and Processing by Materials and Manufacturing Processes at Jaipur / -- / 2015
3. Vibha Uttam, R. K. Duchaniya, "Tribological Studies of the Electroless Ni-P-TiO₂ Composite Coating on Mild Steel" 8th National Conference Thermophysical Properties by American Institute of Physics at Jaipur / - / 2015
4. Gaurav Tripathi, Ashok Sharma, S.K. Gupta, M.K. Bhargava, "National Seminar on by MNIT JAIPUR at MNIT Jaipur / 73-78 / 2013
5. Sharda, Vinod Kumar Agarwal, R K Duchaniya , "Nano-Steel" Nanotechnology Application NTA-2012 by The Institution of Engineers India at Jaipur, Rajasthan / 241 / 2012
6. Dinesh Saini, R.K. Duchaniya, "CdS;ZnO Powder Nanocomposites: Synthesis, Structural and Optical Characterization" Nanotechnology Application NTA-2012 by The Institution of Engineers India at Jaipur, Rajasthan / 241 / 2012
7. Priyanka Meena, R.K. Duchaniya , "Silicon P-N Junction Diode: Fabrication of 12500 Diodes on Single Silicon Wafer & I-v Characteristics" Nanotechnology Application NTA-2012 by The Institution of Engineers India at Jaipur, Rajasthan / 2414 / 2012
8. Nancy Sahu, R K Duchaniya , "Synthesis of ZnO-CdO Nanocomposites" Nanotechnology Application NTA-2012 by The Institution of Engineers India at Jaipur, Rajasthan / 241 / 2012
9. Parul Yadav, R K Duchaniya, "Synthesis and Processes of Nanomaterials" Nanotechnology Application NTA-2012 by The Institution of Engineers India at Jaipur, Rajasthan / 241 / 2012
10. R.K.Duchaniya, "Charactrization Techniques for Nanomaterials" Nanotechnology Application NTA-2012 by The Institution of Engineers India at Jaipur, Rajasthan / 241 / 2012
11. Vipul Saxena, R.K. Duchaniya, "Properties, Synthesis, Processes and Advances in Nanomaterials" Nanotechnology & Application NTA 2011 by The Institution of Engineers at Jaipur, Rajasthan / 241 / 2011
12. Divyesh Y. Pandya, Rajendra Kumar Duchaniya, Ashok Sharma , "Recent Development in Application of Remote Field Eddy Current Testing : An Application" Surface Coatings and Corrosion Resistance by The Institution of Engineers India at Jaipur, India / 241 / 2007
13. Rajendra Kumar Duchaniya, Ashok Sharma, M.K. Totlani , "Corrosion Control by Electroless Ni-P Coating: Case Study" Surface Coatings and Corrosion Resistance by The Institution of Engineers India at Rajasthan Chapter Jaipur / 241 / 2007
14. Rajendra Kumar Duchaniya, Ashok Sharma, M.K. Totlani , "Significance of Zincating in Electroless Plating on Aluminium Substrate "Surface Coatings and Corrosion Resistance by The Institution of Engineers India at Rajasthan Chapter Jaipur / 241 / 2007
15. Rajendra Kumar Duchaniya, Ashok Sharma, M.K. Totlani , "Synthesis of Nano-Crystalline Ni₃P Coating on Aluminium Substrate" Surface Coatings and Corrosion Resistance by The Institution of Engineers India at Rajasthan Chapter Jaipur / 241 / 2007

Books Published

S. No.	Title	Author	Publisher
1.	Nanomaterials: Synthesis and Characterization of ZnO-CdO Nanocomposite	Dr. R. K. Duchaniya	LAP Lambert Academic Publishing

Membership of Professional Bodies

S. No.	Name of Faculty	Membership
1.	Prof. A. K. Bhargava	Member, ASM International, USA Life member, Indian Institute of Metals Life member, Indian Society for Technical Education
2	Prof. S.K. Biswas	Royal Society Of Chemistry, UK
3	Dr. R. K. Duchaniya	Member of Institution of Engineers (India). Life Member of The Indian Institute of Metals. Life Member of Materials Research Society of India.
4	Prof. M. K. Bannerjee	Life member Institute of Structural Integrity
5	Vinod Kumar	1. Life time member of Electron Microscope Society of India (EMSI) 2. Member of Indian Institute of Metals (IIM)
6	Prof. P.R. Soni	Life member IIM
7	Dr. Vijay N Nadakuduru	Life member Indian Institute of Metals (IIM)
8	Dr. Vijay N Nadakuduru	Life member Powder Metallurgy Association India (PMAI)

Any other details worth publication in Annual Report 2015-16

S. No.	Name of Faculty	Particulars
1.	Prof. A. K. Bhargava	Hon'ble Member (Senate Nominee) of Selection Committee for recruitment of faculty (Materials Science & Engineering), NIT Hamirpur, November 7, 2015.
2.	Prof. A. K. Bhargava	Member, Local Advisory committee, Conference on Advanced Materials & Processing, held on December 2-4, 2015, MNIT Jaipur
3.	Prof. S.K. Biswas	Member of Advisory Board, International Conference on Condensed Matter and Applied Physics, Bikaner, October 30-31, 2015
4.	Prof. M. K. Bannerjee	Reviewer, J Materials Engg and Performance, Elsevier
5.	Prof. M. K. Bannerjee	Reviewer, J of Alloys and Compounds

DEPARTMENT OF PHYSICS

Research Papers Published in International Journals:

- Sanjeev Kumar Gupta, Paramjit Singh, K. Awasthi, A. Roychowdhury, Rajesh Kumar, "A Comparative Study of the Effects of Oxygen Ions Upon the Free Volume and Physico-Chemical Properties of Makrofol (KG & N) Polycarbonate" Macromolecular Symposia 357 (2015) 86-98.
- Vikas Sharma, Satyavir Singh, K. Asokan and K. Sachdev, "A study on 100 MeV O⁷⁺ irradiated SnO₂/Ag/SnO₂ multilayer as transparent electrode for flat panel display application" NIMB, 2016, In press.
- P. Adlarson, K. Lalwani et al, "ABC effect and resonance structure in the double-pionic fusion to 3He" ABC effect and resonance structure in the double-pionic fusion to 3He, Phys. Rev. C, 91, 2015, 015201



4. Yogesh Kumar Tailora, Sarita Khandelwala, Yogita Kumari, Kamendra Awasthi and Mahendra Kumara, "An efficient one pot three-component nanocatalyzed synthesis of spiroheterocycles using TiO_2 nanoparticles as heterogeneous catalyst." RSC Advances 5 (2015) 46415-46422.
5. Indu B. Vashistha, Mahesh C. Sharma, Ramphal Sharma and S.K. Sharma, "Annealing Effect on $\text{Cu}_2\text{ZnSnS}_4$ Thin Films Deposited by Chemical Bath Method for Solar Cell Application" Energy and Environmental Focus (Accepted 2016).
6. G. Jain, K. Lalwani, R. Dalal, A. Bhardwaj, K. Ranjan, "Characterization of Silicon Detectors through TCT" at Delhi University Nuclear Inst. and Methods in Physics Research A xx (2016) xx.
7. Poonam Sharma, Anil Dhawan and S. K. Sharma, "Corrosion behaviour of amorphous $\text{Zr}_{59}\text{Nb}_3\text{Al}_{10}\text{Ni}_8\text{Cu}_{20}$ alloy in aqueous HNO_3 media", Anti-Corrosion Methods and Materials, Vol. 63 (2016) pp. 97-104.
8. KK Awasthi, Anjali Awasthi, Rajbala Verma, Narender Kumar, Partha Roy, Kamendra Awasthi, PJ John, "Cytotoxicity, genotoxicity and alteration of cellular antioxidant enzymes in silver nanoparticles exposed CHO cells," RSC Advances 5 (2015) 34927-34935
9. G. Jain... K. Lalwani et al "Design Optimization of Pixel Sensors using Device Simulations for the Phase-II CMS Tracker Upgrade", Nuclear Inst. and Methods in Physics Research A, xx (2016) xx.
10. Kavita Lalwani, G. Jain, R. Dalal, A. Bhardwaj, K. Ranjan, "Design, Fabrication and Characterization of multi-guard-ring furnished p+n-n+ Silicon Strip Detectors for future HEP experiments", Nuclear Inst. and Methods in Phys. Research A, 824 (2016) 428-431
11. P. Sharma, R. Singhal, R. Vishnoi, R. Kaushik, M.K. Bannerjee, F. Singh, "Electronic Excitation Induced Modification in Fullerene C_{70} Thin Films", Nucl. Inst. Methods Phys Res B 379 (2016) 188-194.
12. T. Sharma, R. Singhal, R. Vishnoi, P. Sharma, A. Patra, S. Chand, G B V S Lakshmi, S.K. Biswas, "Electronic excitation induced modifications of optical and morphological properties of PCBM thin films", Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms 379 (2016) 176-180.
13. Poonam Sharma, Anil Dhawan and S. K. Sharma, "Electrochemical investigation of amorphous $\text{Zr}_{60}\text{Pd}_5\text{Cu}_{15}\text{Ni}_{10}\text{Al}_{10}$ and $\text{Zr}_{57}\text{Nb}_5\text{Cu}_{20}\text{Ni}_8\text{Al}_{10}$ alloys in oxidizing medium", Advanced Science Letters xx (2016)xx.
14. Kumud Kant Awasthi, Rajbala Verma, Anjali Awasthi, Kamendra Awasthi, Inderpal Soni, PJ John, "In vivo genotoxic assessment of silver nanoparticles in liver cells of Swiss albino mice using comet assay", Advanced Materials Letters 6 (2015) 187-193.
15. Vikas Sharma, Pooja Meena, Amena Salim, Rishi Vyas, K. Sachdev, "Investigations on Multilayered TCO as Transparent Electrode in Organic Devices", Macromolecular Symposia, 2015, 357, 124.
16. P. Sharma, R. Singhal, R. Vishnoi, R. Kaushik, M.K. Bannerjee, D.K. Avasthi, V. Ganesan, "Ion Track Diameter in Fullerene C_{70} Thin Film using Raman Active Vibrational Modes of C_{70} Molecule", Vacuum 123 (2016) 35.
17. A. Panwar, C. M. Ryu, and A. Kumar, "Modulational instability of a laser pulse in a non-uniform plasma channel", Laser and Particle Beams, 34(1), 53-60, 2015.
18. Anil Kumar, Lokesh Kumar Jangir, Yogita Kumari, Manoj Kumar, Vinod Kumar, Kamendra Awasthi, "Optical and Structural Study of Polyaniline/Polystyrene Composite Films", Macromolecular Symposia 357 (2015) 229-234.

19. Harshita Agrawal, Kamendra Awasthi, Vibhav K. Saraswat, "Poly (ethylene terephthalate)-ZnO Nanocomposites: Optical and Raman Studies", *Macromolecular Symposia* 357 (2015) 105-108.
20. Vijaya Kumar Kambila, Krishna Jyothi Nadella, Venkata Ratnam Kamma Kesa, Narayana Murty Piratla, "Preparation and characterization of PAN-KI complexed gel polyelectrolytes for solid state battery applications", *Bulletin of Materials Science* xx (2016) xxx.
21. Vikas Sharma, Rishi Vyas, B. Paul, G. S. Chang, K. Asokan and K. Sachdev, "Probing into highly transparent and conducting SnO₂/Au/SnO₂ thin films for futuristic TCO applications", *RSC Advances*, 2016, 6, 29135.
22. Satyendra Kumar, Paramjit Singh, R.G. Sonkawade, Kamendra Awasthi, Rajesh Kumar, "SHI irradiation of metal doped zinc sulfide polymer nanocomposites synthesized using micro emulsion method", *Nuclear Instruments and Methods in Physics Research Section B* 358 (2015) 258-262
23. Kumud Kant Awasthi, Anjali Awasthi, Rajbala Verma, Inderpal Soni, Kamendra Awasthi, P. J. John, "Silver nanoparticles and carbon nanotubes induced DNA damage in mice evaluated by single cell gel electrophoresis", *Macromolecular Symposia* 357 (2015) 210-217.
24. Yogita Kumari Lokesh Kumar Jangir, Anil Kumar, Manoj Kumar, K C Swami, Kamendra Awasthi, "Structural and Morphological Study of PS-TiO₂ Nanocomposite Membranes", *Macromolecular Symposia* 357 (2015) 200-205.
25. Lokesh Kumar Jangir, Yogita Kumari, Anil Kumar, Manoj Kumar, Kamendra Awasthi, "Structural and Morphological Study of PS-ZnO Nanocomposite Membrane", *Macromolecular Symposia* 357 (2015) 218-222.
26. Parmod Kumar, Geeta Rana, Gagan Dixit, Ashish Kumar, Vikas Sharma, Rajan Goyal, K. Sachdev, S. Annapoorni, K. Asokan, "Structural, electrical and magnetic properties of dilutely Y doped NiFe₂O₄ nanoparticles", *Journal of Alloys and Compounds*, 2016, In press
27. Kavita Lalwani, G. Jain, Ranjeet Dalal, Kirti Ranjan, Ashutosh Bhardwaj, "Study the Radiation Damage Effects in Si microstrip Detectors for Future HEP experiments", *Nucl. Ins. & Methods in Phys. Research B*, 379 (2016) 262–264
28. P. Sharma, R. Singhal, R. Vishnoi, M.K. Bannerjee, R. Kaushik, K.V. Kamma, GB V S Lakshmi, A. Tripathi, D.K. Avasthi, "Surface and Structural Studies of Fullerene C₇₀ Thin Films under 90 MeV Si Ion Beam Irradiation", *Surface Engineering*, xx (2016) xxx.
29. Shushant Kumar Singh, Himanshu Sharma, R. Singhal, V. V. Siva Kumar, D. K. Avasthi, "Synthesis and annealing study of RF sputtered ZnO thin films", *AIP Conf. Proc.* 1731, 080063 (2016).
30. Anil Kumar, Amit Mishra, Kamendra Awasthi, Ornav Maulik, Vinod Kumar, "Thermal Stability and Electrical Properties of Polyaniline Synthesized by Oxidative Polymerization Method", *Macromolecular Symposia* 357 (2015) 168-172.
31. Anjali Awasthi, Ankita Dube, Yogita Kumari, Lokesh Kumar Jangir, KK Awasthi, Kamendra Awasthi, "Toxicological evaluation of TiO₂ Nanoparticles in Bacterial cell", *Macromolecular Symposia* 357 (2015) 235-240.
32. Harshita Agrawal, Kamendra Awasthi, Yogendra K. Saraswat and Vibhav K. Saraswat "ZnO nanoparticles favor heterogeneous nucleation in PET-ZnO nanocomposites" at Taylor & Francis 95 (2015) 2306-2322.

Research Papers Published in National Journals:



1. Ki-Young Choi, Subhayan Mandal, Chang-Sub Shin, "Quasar polarization with ultralight (pseudo-) scalars", Pramana Volume: 86 / 169 / 2016.

List of Papers Presented / Published at International Conferences:

1. Block copolymer coated PET composite membranes for gas separation, Kamakshi, Vibhav K Saraswat, M. Kumar, Kamlendra Awasthi, 7th International workshop on polymer metal nanocomposites, 2-5 Nov. 2015, Jaipur, India
2. Characterization of Silicon Detectors through TCT at Delhi University G. Jain, K. Lalwani, R. Dalal, A. Bhardwaj, K. Ranjan in an international conference on frontier detectors for frontier physics, 13th Pisa Meeting on advanced detectors, 24th May to 30th May, 2015, La Biodola, Isola d'Elba (Italy).
3. Design Optimization of Pixel Sensors using Device Simulations for the Phase-II CMS Tracker Upgrade G. Jain... K. Lalwani et al... in an international conference on frontier detectors for frontier physics, 13th Pisa Meeting on advanced detectors, 24th May to 30th May, 2015, La Biodola, Isola d'Elba (Italy).
4. Design, Fabrication and Characterization of multi-guard-ring furnished p+n-n+ Silicon Strip Detectors for future HEP experiments, Kavita Lalwani, G. Jain, R. Dalal, A. Bhardwaj, K. Ranjan, in an international conference on frontier detectors for frontier physics, 13th Pisa Meeting on advanced detectors, 24th May to 30th May, 2015, La Biodola, Isola d'Elba (Italy).
5. Electron Beam Induced Oscillations in a Nanotube Array and THz Emissions, High Power Coherent Radiation Generation & its Interaction with Matter, Ashok Kumar, L. Bhasin, P. Kumar, and V. K. Tripathi, at SATI Vidisha 12-14 Feb 2016.
6. Electronic Excitation Induced Modification in Fullerene C₇₀ Thin Films, P. Sharma, R. Singhal, R. Vishnoi, R. Kaushik, M.K. Bannerjee, F. Singh presented paper in 18th International Conference on Radiation Effects in Insulators (REI-18), Hotel Royal Orchid, Jaipur, Rajasthan, India, 26th -30th October, 2015.
7. Electronic excitation induced modifications of optical and morphological properties of PCBM thin films, S.K. Biswas presented paper in 18th International Conference on Radiation Effects in Insulators (REI-18), Hotel Royal Orchid, Jaipur, Rajasthan, India, 26th -30th October, 2015.
8. Electrical Studies of Gel Polymer Electrolyte based on PAN for Electrochemical Cell Applications , N. Krishna Jyothi, K. K. Venkata Ratnam, P. Narayana Murthy, K. Vijaya Kumar Materials today : Proceedings 3 (2016) 21-30.
9. Enhancement in mechanical properties of Ni Titanium shape memory alloy thin films , V. Kumar , R. Vishnoi, M. Gupta, A. Gupta, R. Singhal, K. Asokan, D. Kanjilal, presented paper in 18th International Conference on Radiation Effects in Insulators (REI-18), Hotel Royal Orchid, Jaipur, Rajasthan, India, 26th -30th October, 2015.
10. Functionalization of Nanochannels in PET track etched membranes for antimicrobial properties and hydrogen extraction, Rajesh Kumar, Kamakshi, A. Awasthi, M Kumar, Kamlendra Awasthi, 18th Int. Conference on Radiation Effects in Insulators (REI 18), 26-31 Oct. 2015, Jaipur India.
11. Functionalized MWCNTs with Pd nanoparticles in Polycarbonate for gas separation, Rajesh Kumar, Manoj Kumar, Kamlendra Awasthi, 7th International workshop on polymer metal nanocomposites, 2-5 Nov. 2015, Jaipur, India.
12. Growth and modification of semiconductor nanocrystals and dielectric thin films" N Srinivasa Rao, at an International Conference on Recent Trends in Engineering and Material Sciences (ICEMS-

2016), 17-19 March 2016, Jaipur National University, Jaipur.

13. Optical properties of rare earth doped ZnO-PS nanocomposites, Lokesh K. Jangir, Yogita Kumari, Manoj Kumar, Kamalendra Awasthi, 7th International workshop on polymer metal nanocomposites, 2-5 Nov. 2015, Jaipur, India
14. PS-P4VP block copolymer based thin films, Yogita Kumari, Lokesh K. Jangir, Manoj Kumar, Kamalendra Awasthi, 7th International workshop on polymer metal nanocomposites, 2-5 Nov. 2015, Jaipur, India
15. Study the Radiation Damage Effects in Si microstrip Detectors for Future HEP experiments, Kavita Lalwani, G. Jain, Ranjeet Dalal, Kirti Ranjan, Ashutosh Bhardwaj, 18th International Conference on Radiation Effects in Insulators (REI-18), Hotel Royal Orchid, Jaipur, Rajasthan, India, 26th -30th October, 2015.
16. Synthesis and characterization of PANI nanofiber with MWCNTs, Anil, Kumar, Lokesh K. Jangir, Yogita Kumari, Manoj Kumar, Vinod Kumar, Kamalendra Awasthi, 7th International workshop on polymer metal nanocomposites, 2-5 Nov. 2015, Jaipur, India
17. Tuning of Structural and optical properties of MgTiO₃ thin films using swift heavy ion beam irradiation", Arun Vinod, N Srinivasa Rao, Mahendra Singh Rathore, A P Pathak, T Santhosh Kumar, D Pamu, 18th Int. Conference on Radiation Effects in Insulators (REI 18), 26-31 Oct. 2015, Jaipur India.

List of Papers Presented/ Published at National Conferences

1. Chemical precursor impact on the properties of Cu₂ZnSnS₄ absorber Layer, Indu B. Vashistha, Mahesh C. Sharma, and S.K. Sharma, Indu B. Vashistha, Mahesh C. Sharma, and S.K. Sharma International Conference on Emerging Technologies: MICRO TO NANO 2015 (ETMN).
2. Corrosion behavior of O⁺ ion implanted Zr55Cu30Al10Ni5 bulk metallic glassy alloy in nitric acid medium, Poonam Sharma, J. Jayaraj, A. Dhawan, S. K. Sharma and U. Kamachi Mudali,, International Conference on Frontiers at the Chemistry-Allied Sciences Interface.
3. Growth mechanism of different chemical precursor based chemical bath deposition method for Cu₂ZnSnS₄ thin film deposition" Indu B. Vashistha, Mahesh C. Sharma and S.K. Sharma, National Conference on Recent Advancement in Chemical Sciences (RAICS).
4. Investigation of ITO Free Transparent Conducting Polymer Based Electrode" Vikas Sharma, Sapna and Kanupriya Sachdev, AIP Conference Proceedings, 2016, 1731, 080053.
5. Modification done by 90 MeV and 55 MeV Si ion beam on the structural and optical properties of C70 thin films, Pooja Sharma, R. Singhal, M. K. Bannerjee, D.K Avasthi presented paper in National Conference on Recent Advancement in Chemical Sciences (RAICS).
6. Post annealing treatment of ZnS Thin Film as a buffer layer, Indu B. Vashistha, Mahesh C. Sharma, and S.K. Sharma, Conference on Advanced Materials and Processing (CAMP-2015).
7. Structural and Optical Properties of GeO₂ Thin Films Prepared by E-Beam Evaporation", Mahendra Singh Rathore, Arun Vinod, N. Srinivasa Rao, 8th National Conference on Thermophysical Properties (NCTP-2015), 14-16 Dec. 2015, MNIT Jaipur India.
8. Surface and Structural Studies of Fullerene C70 Thin Films under 90 MeV Si Ion Beam Irradiation, P. Sharma, R. Singhal, R. Vishnoi, , M.K. Bannerjee presented in National Conference on Advanced Materials and Processing (CAMP-2015), Dec 2-4, 2015 in department of Physics, MNIT Jaipur.
9. Surface morphology study of Zr-based amorphous alloys after immersion in boiling nitric acid medium, Poonam Sharma, Anil Dhawan and S. K. Sharma, 60th DAE Solid State Physics Symposium.



10. Synthesis and characterization of HfO₂ thin films by RF magnetron sputtering' Arun Vinod, Mahendra Singh Rathore, N. Srinivasa Rao, at the National Conference on Recent Advancements in Chemical Sciences (RAICS,2015), 21-23 August 2015, MNIT Jaipur.

Membership of Professional Bodies

S. No.	Name of Faculty	Membership
1.	Dr. S. K. Sharma	Life member - 1. Indian Physics Association (IPA) 2. Indian Institute of Metals (IIM) 3. Indian Vacuum Society (IVS) 4. Materials Research Society of India (MRSI) 5. Indian Physics Teachers Association (IPTA) 6. Indian Laser Association (ILA) 7. Indo-German Society (IGS) Jaipur 8. Soft Materials Research Society Jaipur (SMRS)
2	Dr. K. Sachdev	Life member - Materials Research Society of India (MRSI). Indian Society for Disordered Materials. Plasma Science Society of India. Indian Association of Physics Teachers Ion Beam Society of India
3	Dr. K Venkataratnam Kamma	Life Member, Indian Association of Physics Teachers. Life Member, Indian Association for General Relativity and Gravitation.
4	Dr. Srinivasa Rao Nelamarri	Life Member, Ion Beam Society of India
5	Dr. Rahul Singhal	Life time member of Indian Physical Society, Kolkata Lift time member, Ion beam society of India
6	Dr. Kamendra Awasthi	Life Member, Material Research Society of India Life Member, Nuclear Track Society of India Life Member, Indian Association of Physics Teachers Member, European Desalination Society Life Member, Ion Beam Society of India Life Member, Indo-German Society (IGS) Jaipur Life Member, Soft Materials Research Society
7	Dr. Manoj Kumar	Life member/Executive Member, Indian Association of Physics Teachers Life Member, Material Research Society India Life Member, Soft Materials Research Society Life Member, Indo-German Society (IGS) Jaipur Member, American Physical Society, USA
8	Dr. Ashok Kumar	Plasma Science Society of India

Any other details worth publication in Annual Report 2015-16

S. No.	Name of Faculty	Particulars
1.	Dr. K. Sachdev	Reviewer- Journal of Non Crystalline Solids- Elsevier
2.	Dr. K. Sachdev	Convener- KVPY interviews conducted by IISC Bangalore at Deptt. Of Physics, MNIT J
3.	Dr. R. Singhal	Reviewer in numerous international journals such as Vacuum, Plamonics, Nuclear Instruments and methods in Physical Research B, Journal of Nanoparticle research etc
4.	Dr. R. Singhal	Received DST grant for performing synchrotron experiment at DESY Lab, Hamburg, Germany
5.	Dr. R. Singhal	Received DST grant for performing synchrotron experiment at Elettra, Lab, Trieste, Italy

11.9 COURSES AND ADMISSIONS

(a) Undergraduate Programmes (Technology/Architecture)

Academic Programmes leading to B. Tech. / B. Architecture Degree as noted below:

S. No.	Discipline/Duration	Year of starting
1.	Architecture (5 years)	1988
2.	Civil Engg. (4 years)	1963
3.	Chemical Engg. (4 years)	1988
4.	Computer Science & Engineering (4 years)	1994
5.	Electrical Engg. (4 years)	1963
6.	Electronics & Communication Engg. (4 years)	1984
7.	Mechanical Engg. (4 years)	1963
8.	Metallurgical & Materials Engg. (4 years)	1963

(b) Postgraduate Programmes (Technology/Science/Management)

Academic Programmes leading to M. Tech./M.Plan./M.B.A./M.Sc. Degree as noted below:

S. No.	Department	Programme	Year of starting
1.	Centre for Energy & Environment	Renewable Energy	2013
2.	Chemical Engineering	Chemical Engineering	2006
3.	Civil Engineering	Environmental Engineering	1989
4.	Civil Engineering	Water Resources Engineering	1985
5.	Civil Engineering	CAD/Structural Engineering	1996/2006
6.	Civil Engineering	Transportation Engineering	1996
7.	Civil Engineering	Disaster Assessment and Mitigation	2010
8.	Computer Science & Engineering	Computer Engineering	2008
9.	Electrical Engineering	Power Systems	1987



10.	Electrical Engineering	Power Electronics & Drives	2015
11.	Electronic & Communication Engg	VLSI Design	2006
12.	Electronic & Communication Engg	Wireless & Optical Communication	2014
13.	Electronic & Communication Engg	Embedded System	2014
14.	Electronics & Communication Engineering	Electronics & Communication Engineering	1992
15.	Mechanical Engineering	Manufacturing System Engg./ Industrial Engineering	1996/2013
16.	Mechanical Engineering	Energy/Thermal Engineering	2006/2013
17.	Mechanical Engineering	Production Engineering	2013
18.	Mechanical Engineering	Design Engineering	2013
19.	Metallurgical & Materials Engg.	Non Ferrous Met./Metallurgical & Materials Engg	1971/2006
20.	Metallurgical & Materials Engg.	Steel Technology	2013
21.	Architecture & Planning	Urban Planning	2008
22.	National Centre of Disaster Mitigation & Management	Earthquake Engineering	2015
23.	Chemistry	Applied Chemistry	2006
24.	Mathematics	Applied Mathematics	2006
25.	Physics	Applied Physics	2006
26.	Management Studies	MMS/M.B.A.	1996/2006

STUDENTS INTAKE

(a) Undergraduate Programmes

The allocation of 710 seats for students from Rajasthan & other than Rajasthan states for the session 2015-16 are as follows

Malaviya National Institute of Technology Jaipur											
	Degree	Branch	OP	OPPH	SC	SCPH	ST	STPH	OBC	OBCPH	Total
All India CAI	B.Arch.	Architecture	15	1	5	0	2	0	8	0	31
	B.Tech.	Civil Engg.	23	0	7	0	3	1	12	0	46
	B.Tech.	Chemical Engg.	23	0	6	1	4	0	12	0	46
	B.Tech.	Computer Science & Engg.	23	1	7	0	3	0	12	1	47
	B.Tech.	Electrical Engg.	22	1	7	0	4	0	13	0	47
	B.Tech.	Electronics & Communication Engg.	23	0	7	0	3	0	12	1	46



	B.Tech.	Mechanical Engg.	22	1	6	1	4	0	12	0	46
	B.Tech.	Metallurgical & Materials Engg.	22	1	7	0	3	0	13	0	46
		TOTAL (A)	173	5	52	2	26	1	94	2	355
Home State (HS)	B.Arch.	Architecture	15	0	4	0	2	1	9	0	31
	B.Tech.	Civil Engg.	22	1	7	0	3	0	12	1	46
	B.Tech.	Chemical Engg.	22	1	7	0	3	0	13	0	46
	B.Tech.	Computer Science & Engg.	22	1	7	0	4	0	12	0	46
	B.Tech.	Electrical Engg.	23	0	6	1	3	0	12	1	46
	B.Tech.	Electronics & Communication Engg.	23	1	7	0	4	0	12	0	47
	B.Tech.	Mechanical Engg.	23	0	7	0	3	0	13	1	47
	B.Tech.	Metallurgical & Materials Engg.	22	1	6	1	4	0	12	0	46
			TOTAL (B)	172	5	51	2	26	1	95	3
	GRAND TOTAL (A+B)		345	10	103	4	52	2	189	5	710

The allocation of 20 seats for students from Foreign Nationals through Indian Council for Cultural Relations (ICCR) & Ministry of External Affairs in UG programmes for the session 2015-16

Branch	MEA (Edu. Wel.)	ICCR	Total
Architecture	-	2	2
Civil Engg. (4 years)	1	5	6
Chemical Engg. (4 years)	1	1	2
Computer Science & Engg. (4 years)	-	-	-
Electrical Engg. (4 years)	-	4	4
Electronics & Communication Engg. (4 years)	1	1	2
Information Technology (4 years)	-	-	-
Mechanical Engg. (4 years)	1	3	4
Metallurgical & Materials Engg. (4 years)	-	-	-
TOTAL	4	16	20



The allocation of 55 seats for students from DASA Scheme in UG programmes in 2015-16

Branch/Duration	Approved Annual Intake
Architecture (5 years)	04
Civil Engg. (4 years)	07
Chemical Engg. (4 years)	03
Computer Science and Engg. (4 years)	10
Electrical Engg. (4 years)	07
Electronics & Communication Engg. (4 years)	11
Mechanical Engg. (4 years)	10
Metallurgical & Materials Engg. (4 years)	03
TOTAL	55

(b) Postgraduate Programmes

Statement showing the intake capacity (branch wise) for admission to Postgraduate programmes for the year 2015-16

S. No.	Programme	OC	OB	SC	ST	OC-PWD	OB-PWD	SC-PWD	ST-PWD	Sponsored	P T	Total
1.	Urban Planning	10	5	3	2	0	0	0	0	5	6	31
2.	Renewable Energy	10	5	3	2	0	1	0	0	5	6	32
3.	Chemical Engg.	10	5	3	2	0	0	1	0	5	6	32
4.	Disaster Assessment and Mitigation	8	3	2	1	1	0	0	0	5	6	26
5.	Earthquake Engg.	8	4	2	1	0	0	0	0	0	0	15
6.	Environmental Engg.	8	3	2	1	1	0	0	0	5	6	26
7.	Structural Engg.	8	3	2	1	0	1	0	0	5	6	26
8.	Transportation Engg.	8	3	2	1	0	0	0	1	5	6	26
9.	Water Resources Engg.	8	3	2	1	0	0	0	0	5	6	25
10.	Computer Engg.	10	5	3	2	1	0	0	0	5	6	32
11.	Power Electronics & Drives	10	5	3	2	0	0	0	0	0	0	20
12.	Power Systems	10	5	3	2	0	0	0	0	5	6	31
13.	Electronics & Communication Engg.	10	5	3	2	0	0	1	0	5	6	32



14.	Embedded Systems	10	5	3	2	0	0	0	0	0	0	20
15.	VLSI Design	10	5	3	2	1	0	0	0	5	6	32
16.	Wireless & Optical Communication	10	5	3	2	0	0	0	0	0	0	20
17.	Design Engg.	8	3	2	1	1	0	0	0	0	0	15
18.	Industrial Engg.	10	5	3	2	0	1	0	0	5	6	32
19.	Production Engg.	8	3	2	1	0	0	0	0	0	0	14
20.	Thermal Engg.	8	4	2	1	0	0	0	0	0	0	15
21.	Metallurgical & Materials Engg.	10	5	3	2	0	0	0	0	5	6	31
22.	Steel Technology	8	3	2	1	0	0	0	0	5	6	25
	Total	200	92	56	34	5	3	2	1	75	90	558

S. No.	Programme	OC	OB	SC	ST	OC-PWD	OB-PWD	SC-PWD	ST-PWD	Total
1.	M.Sc. in Applied Physics	16	8	5	2	1	0	0	0	32
2.	M.Sc. in Applied Chemistry	16	8	5	2	0	0	1	0	32
3.	M.Sc. in Applied Mathematics	16	8	5	2	0	0	0	1	32
	Total	48	24	15	6	1	0	1	1	96

S. No.	Programme	OC	OB	SC	ST	OC-PWD	OB-PWD	SC-PWD	ST-PWD	Total
1.	MBA	31	17	09	05	1	0	1	0	64
	Total	31	17	9	5	1	0	1	0	64

Intake of Foreign Nationals under the DASA Scheme in PG programmes in 2015-16

S. No.	Programmes	Intake
1.	M. Planning in Urban Planning	2
2.	Chemical Engineering	2
3.	Computer Science & Engineering	2
4.	Electronics & Comm. Engg.	2
5.	Industrial Engg.	2
6.	Metallurgical & Materials Engg.	2
7.	Power Systems	2
8.	Structural Engg.	2
9.	Thermal Engineering	2
10.	Transportation Engg.	2
11.	VLSI Design	2
12.	M.B.A.	5
	TOTAL	27

**COURSE WISE ADMISSION STATISTICS-UG/PG PROGRAMMES**

(a) Students admitted to Undergraduate B. Tech./B.Arch. programmes through CSAB (JoSAA) during the session 2015-16

S. No.	Branch	OP	OP PH	OBC	OBC PH	SC	SCPH	ST	STPH	Total
1.	Architecture	27	1	17	0	8	0	5	0	58
2.	Chemical Engg.	44	1	25	0	14	0	7	0	91
3.	Civil Engg.	37	0	30	1	14	0	6	2	90
4.	Computer Science & Engg.	41	2	25	1	14	0	7	0	90
5.	Electronics & Communication Engg.	46	1	24	1	13	0	7	0	92
6.	Electrical Engg.	36	1	32	1	13	1	7	0	91
7.	Mechanical Engg.	39	1	30	1	13	0	7	0	91
8.	Metallurgical & Materials Engg.	34	1	28	1	14	0	7	0	85
	TOTAL	304	8	211	6	103	1	53	2	688

(b) Students admitted to Undergraduate B. Tech./B.Arch. programmes through DASA during the session 2015-16

S. No.	Branch	DASA
1.	Architecture	3
2.	Chemical Engg.	3
3.	Civil Engg.	7
4.	Computer Science & Engg.	10
5.	Electronics & Communication Engg.	11
6.	Electrical Engg.	2
7.	Mechanical Engg.	10
	TOTAL	46

(c) Students admitted to Undergraduate B. Tech./B.Arch. programmes through ICCR/MEA during the session 2015-16

S. No.	Branch	ICCR	MEA
1.	Chemical Engg.	0	1
2.	Civil Engg.	2	1
3.	Electronics & Comm. Engg.	0	1
4.	Electrical Engg.	1	0
5.	Mechanical Engg.	0	1
	TOTAL	3	4



(d) Students admitted to Postgraduate Programmes during the session 2015-16 in M.Tech. / M.Plan. /M.Sc. /M.B.A. programmes

S. No.	Programmes	General	ST	SC	OBC	Sponsored	Part Time	Total
1.	Urban Planning	7	1	2	5	0	0	15
2.	Renewable Energy	8	2	3	4	0	3	20
3.	Chemical Engineering	7	2	3	2	0	0	14
4.	Disaster Assessment and Mitigation	7	0	2	1	0	0	10
5.	Earthquake Engineering	7	0	2	3	0	0	12
6.	Environmental Engineering	5	2	1	5	2	0	15
7.	Structural Engineering	6	1	1	4	0	0	12
8.	Transportation Engineering	8	1	2	3	1	3	18
9.	Water Resources Engineering	5	2	3	4	0	0	14
10.	Computer Engineering	8	2	3	7	2	0	22
11.	Power Electronics & Drives	8	2	2	7	0	0	19
12.	Power Systems	9	2	3	6	3	0	23
13.	Electronics & Communication Engineering	3	2	4	9	1	2	21
14.	Embedded Systems	6	1	4	6	0	0	17
15.	VLSI Design	10	1	3	5	1	2	22
16.	Wireless & Optical Communication	5	3	2	8	0	0	18
17.	Design Engineering	6	0	2	5	1	0	14
18.	Industrial Engineering	7	2	3	7	0	0	19
19.	Production Engineering	8	1	2	3	0	0	14
20.	Thermal Engineering	8	1	2	4	0	0	15
21.	Metallurgical & Materials Engineering	3	0	2	4	0	0	9



22.	Steel Technology	0	0	3	2	0	0	5	
	TOTAL	141	28	54	104	11	10	348	
M. Sc.									
1.	M. Sc. Physics	15	1	1	7	0	0	24	
2.	M. Sc. Chemistry	14	0	3	2	0	0	19	
3.	M. Sc. Mathematics	14	0	2	9	0	0	25	
	TOTAL	43	1	6	18	0	0	68	
M.B.A									
1.	M.B.A.	30	1	2	9	0	0	42	
	GRAND TOTAL	M. Tech/M. Plan/M. Sc./MBA							458

(e) Students admitted to Ph.D. Programmes 2015-16 (July 2015)

S. No.	Department	Students admitted	
		Full Time	Part Time
1.	Architecture & Planning	2	0
2.	Centre for Energy & Env.	2	0
3.	Chemical Engineering	6	0
4.	Chemistry	3	0
5.	Civil Engg.	8	1
6.	Computer Science & Engineering	9	1
7.	Electrical Engg.	8	0
8.	Electronics & Comm. Engg.	7	0
9.	Mathematics	1	0
10.	Mechanical Engg.	5	1
11.	Metallurgical & Materials Engg.	3	0
12.	National Centre for Disaster Mitigation and Management	1	1
13.	Physics	6	0
	Grand Total	61	4



(f) Students admitted to Ph.D. Programmes 2015-16 (January 2016)

S. No.	Department	Students admitted	
		Full Time	Part Time
1.	Architecture & Planning	1	0
2.	Centre for Energy & Environment	3	1
3.	Chemical Engineering	3	0
4.	Civil Engg.	3	1
5.	Computer Science & Engineering	6	1
6.	Electrical Engg.	5	1
7.	Electronics & Communication Engg.	4	3
8.	Humanities & Social Sciences	1	0
9.	Mathematics	2	0
10.	Mechanical Engg.	5	0
11.	Metallurgical & Materials Engg.	1	0
12.	Physics	2	1
Grand Total		36	8

11.10 SCHOLARSHIPS AND AWARDS

UG SCHOLARSHIP AND AWARDS (2015-16)

S.No	Name of Scholarship	Address	Amount	Conditions
1	Central Sector Scholarship Scheme of Top Class Education for Schedule Caste (SC) students	Ministry of Social Justice and Empowerment, govt. of India New Delhi	All non refundable fees, Lodging & boarding charges, stationery and latest Computer	Central Sector Scholarship Scheme of Top Class Education for 12 Schedule Caste (SC) students
2	National Fellowship and Scholarship for Higher Education of (ST) Students.	Ministry of Tribal affairs (Education section) Govt. of India, New Delhi.	All non refundable fees, Lodging & boarding charges, stationery and latest Computer	Central Sector Scholarship Scheme of Top Class Education for Schedule Tribe (ST) Students.
3	National Handicapped Finance and Development Corporation(Ministry of social Justice &Empowerment, Govt. of India)	National Handicapped Finance and Development Corporation(Ministry of Social Justice &Empowerment, Govt. of India) Red Cross Bhawan, Sector-12 Faridabad-121007	(I) Trust Fund	Differently-abled Students



4	Govt. of India Ministry of Steel Udyog Bhawan New Delhi-110011	Secretary SDF Managing Committee Ispat Niketan 52/1A Ballygunge Circular Road Kolkata-700019	Rs. 4000/- P.M.	05 selected Students of 3rd year 05 selected Students of 4th year from Metallurgical and Materials Engg. Deptt.
5	Merit Cum Means based scholarship scheme belonging to the minority communities	Ministry of minority Affairs, Govt. of India CGO Complex Lodhi Road ,New Delhi	Fees etc.	Minorities scholarship scheme belonging to the minorities communities
6	National Talent Search Scholarship (NCERT)	National council of education research and training, Sri Aurobindo marg, New Delhi	Rs. 6000/- P.A	National Talent Student
7	AIEEE (JEE) Merit Scholarship	Central Seat Allocation Board (JEE-MAIN)	Full Tuition Fee for course period	All India Rank upto- 2000
8	NTPC Ltd. (A Govt. of India Enterprises)	NTPC Limited , NTPC Bhawan, Scope Complex Core-7, Institutional area, Lodi Road, New Delhi 110003	Rs. 4000/- P.M.	For SC/ST/PC Students
9	O.N.G.C. Dehradun for SC/ST	General Manager ONGC, Tel Bhavan Dehradun 248003	Rs. 48000/-	Merit ONGC finalizes the merit
10	O.N.G.C Scholarship	Oil and Natural Gas Corporation Limited ONGC Academy, KDMIPE campus, Dehra Dun-248195, India	Rs.60000/- each	(1) Chemical Engg. (2) Mechanical Engg.
11	Indian Oil Scholarship (IOCL)	ACE CONSULTANTS B-13, DSIDC Complex, Patparganj Industrial Area, Delhi- 110092	Rs.-3000/-P.M	All Category
12	Swami Sivananda Memorial Scholarship	Divine Life Society, Shivanandanagar, Distt.-Tehri- Garhwal, Uttarkhand, Hi malayas (India) -249192	Rs.12,00,000/- Corpus Fund	Need cum merit basis (One each I, II, III, IV years students Rs 24000/-)
13	Ram & Shanti Bhargava Memorial Award	Dr. Vijay Bhargava Dept.of Electrical and Computer Engg. University of Victoria P.O. Box 3055 STN, CSC, Victoria BC 3P6, Canada	Corpus Fund Rs. 100000/-	One of the pass out student of B. Tech. every year.



14	Raj & Sarla Bhargava Scholarship	Canada	Corpus Fund Rs. 100000/-	Merit cum means for Final Electronics students
15	Prof. S. K. Gupta Gold Medal	Alumni of MNITJ Mechanical branch Passed in 1994	Corpus Fund Rs. 150000/-	One of the pass out student of B. Tech. (Mechanical Engineering) every year.
16	O. P. Jindal Engineering & Management Scholars	Jindal center, 12 Bhikaji Cama Place, New Delhi-110066	Rs. 80,000/- P.A.	2 Toppers from each Batch (Civil, Elect., Mech., Metallurgy Engineering)
17	Foundation for Academic Excellence & Access (FAEA)	C-25 Qutab Institutional Area, New Delhi-110016	Tuition fee, hostel, books, Miscellaneous and other Maintenance Allow. Etc.	Student belonging to BPL Category, SC/ST Community.
18	Rural Electrification Corporation Power Distribution Company Limited (RECPDCL) Meriti Scholarship	Core-4, SCOPE Complex, 7 Lodhi Road, New Delhi-110003, Phone (011) 24365165	Rs. 24000/- P.A. from 2nd year	Uttar Pradesh, Rajasthan, Jammu & Kashmir, Bihar, Jharkhand, Odisha, Madhya Pradesh, Chhattisgarh, Andhra Pradesh, Arunachal Pradesh, Assam, Meghalaya and the students with their state of domicile of the above states.
19	Ratan Lal Kanwar Lal Patni Foundation Scholarship	377-B, 2nd, Floor J.S.S. Road, Chira Bazar, Mumbai -400002 C/o R.K. Marbel Pvt. Ltd, Markarana Road, Madanganj Kishangarh Pin-305801 Dist. Ajmer (Raj.)	Rs. 40000/- P.A.	For all Rajasthan students
20	A.B.V.M. Agrawal Jatiyakosh Mumbai	A.B.V.M. Agrawal Jatiyakosh Mumbai-227 Kalbadevi Road, Mumbai-400002	Rs. 4000/- P.A.	For Agrawal Samaj
21	Ambassador Scholarship	Education wing Ambbasy of India, Bhutan	Rs. 20000/- P.A.	DASA students of Bhutan



22	Mukhya Mantri Sarvajan Uchcha Shiksha Chhatravriti Yojana 2014-15	Social Justice and Empowerment Department G3/1 Ambedkar Bhawan, Civil Lines Railway Crossing Govt. of Rajasthan	50% of course fee except development charges	All Rajasthan bonafied NIT students whose parental income is less than Rs. 5 lakh
23	Central Sector Scholarship for College and University student By MHRD	Online application	Rs. 10000 P.A.	Merit holder in Board
24	Special scholarship for Jammu and Kashmir (Department of higher education MHRD India)	Online application	Tution fee upto 1.25 lakh per annum, Hostel fee and incidental upto 1.00 lakh	Student should belong to Jammu and Kashmir and passed 12th from state board of J & K
25	Scheme for Award of Engineers India Limited (EIL) Scholarship for SC and ST Undergraduate Engineering Students	Apply in prescribe performa annexure 1 of two page forwarded from office of Dean Student Welfare and submission at Head (HRD) Engineers India Limited, Engineers India Limited, Engineers India Bhawan, EIA-3rd Floor, New Delhi-110066	Rs. 36000 P.A.	Selection shall be made on the basis of performance in Class XII/Diploma in Engineering candidate should have 55% or equivalent CGPA/CPI in aggregate in Class XII/Diploma in Engineering.

Various State level Scholarships for Post Metric Students /SC /ST /OBC /SBC /PH etc. for the Year 2015-16

S. No.	Respective State-Govt.	Board of Higher Education/Board of Higher Secondary/Technical Education/State Govt./Central Govt. Etc.
1	Bihar	Post Metric Scholarship,
2	Jharkhand	Post Metric Scholarship
3	Orissa	Post Metric Scholarship
4	Gujarat	Post Metric Scholarship, Chief Minister Scholarship, Gujarat
5	Uttarakhand	Post Metric Scholarship
6	Maharashtra	Post Metric Scholarship / National and State Merit Scholarship



7	M. P.	Post Metric Scholarship, Bhopal, etc./ National Scholarship M.P.
8	Goa	Post Metric Scholarship
9	West Bengal	Post Metric Scholarship, Kolkata
10	U. P.	Post Metric Scholarship Lucknow
11	Manipur	Post Metric Scholarship Imphal
12	Punjab	Post Metric Scholarship
13	J & K	Post Metric Scholarship
14	Andman Nicobar	Post Metric Scholarship
15	Kerala	Post Metric Scholarship Thiruvananthapuram
16	Tripura	Post Metric Scholarship / State Merit Agartella
17	Andhra Pradesh	Post Metric Scholarship Hyderabad
18	Assam	Post Metric Scholarship/ Technical Engineering Merit Scholarship Khilapara, Guwhati
19	Tamilnadu	Post Metric Scholarship / Adi Dravidar Tribal Welfare (Chennai)
20	Haryana	Post Metric Scholarship
21	Nagaland	Post Metric Scholarship Kohima
22	Karnataka	Post Metric Scholarship Karnataka
23	Himachal Pradesh	Post Metric Scholarship /Brilliance Merit
24	NCT Of New Delhi	Merit Scholarship, Dept. For the Welfare of SC/ST/OBC/MIN.
25	Meghalaya	State Merit Scholarship /North Eastern Council plan Shillong
26	Chattisgardh	Technical Education Scholarship Raipur
27	Govt. of Rajasthan	Post Metric Scholarship Dy. Director Social Welfare Dept. SC/ST/OBC/SBC
28	Govt. of Rajasthan	Physical Handicapped scholarship Social Welfare Dept.
29	Rajasthan Board	Board of Secondary Education, Rajasthan Ajmer and CBSE
30	CBSE Board	All CBSE Board Scholarship
31	Telangana	Post Metric Scholarship



POSTGRADUATE SCHOLARSHIP AND AWARDS (2015-16)

For Postgraduate courses students

S.No.	Name of Scholarship	Address	Amount	Conditions
1.	Government of India (MHRD) New Delhi	MHRD New Delhi	Rs. 12400/- PM	For M. Tech./M.Plans (GATE Qualified Candidates)
2.	Scholarship to sponsored candidates QIP (Poly) Scheme scholarship from AICTE New Delhi	Advisor All Indian Council for Technical Education Sports Complex IP Estate New Delhi-110002	Rs. 4000/- PM + contingency Rs. 5000/- PA	For M. Tech.

For Ph.D. Scholars

S.No.	Name of Scholarship	Address	Amount	Conditions
1.	CSIR-UGC Fellowship	CSIR Complex PUSA New Delhi	JRF/SRF/RA+HRA	For Ph.D.
2.	Institute Fellowship JRF/SRF	Institute	Rs. 25000/- for first two years and Rs. 28000/- for next two years	For Ph.D.
3.	Scholarship to Sponsored Candidates QIP (Poly) Scheme Scholarship from AICTE New Delhi	Advisor All India Council of Technical Education Ports Complex IP Estate New Delhi -110002	Rs. 9000/- PM + Contingency Rs. 10000/- PA	For Ph.D.

11.11 Training and Placement

Salient Features of Placement Session 2015-16 (Till 30th May 2016)

- ∅ Highest Pay Package – Rs. 25 LPA to 4 Students of Computer Engineering Branch including one PPO.
- ∅ Total Numbers of Companies Visited – 95 Out of which 72 Companies from Core Sector, 21 Companies from Non Core Sector and 2 Companies are from both Sectors of Core and Non Core sectors namely POWER2SME, and MAZARS UK.
- ∅ Number of Offers given to Students – 516 (432 B. Tech , 16 MBA, and 68 P.G. Courses including M.Tech and M.Sc.)
- ∅ Average Package of Placed Students (B.Tech)– 5.77 LPA

Mazor Companies amongst 95 companies visited campus:

S.NO.	COMPANY NAME	CORE/NON-CORE
1	MICROSOFT(PPO)	CORE
2	SALESFORCE(PPO)	CORE
3	AMAZON	CORE



4	GROFERS	CORE
5	ADOBE	CORE
6	DE SHAW	CORE
7	ARCESIUM	CORE
8	FUTURES FIRST	NON-CORE
9	ASPIRING MINDS	CORE
10	POLARIS INTELLECT DESIGN	CORE
11	DRISHTI	CORE
12	INCTURE	NON-CORE
13	OFSS	NON-CORE
14	WOOQER	CORE
15	AIRTEL	CORE
16	MORGAN STANLEY	CORE
17	ORACLE APPLICATIONS	CORE
18	WALMART	CORE
19	CARWALE	CORE
20	AXTRIA	CORE
21	MARUTI SUZUKI	CORE
22	PAYTM	CORE
23	DELOITTE	CORE
24	CLICK LABS	CORE
25	SAPIENT NITRO	CORE
26	C-DOT	CORE
27	TCS	NON-CORE
28	GOLDMAN SACHS	CORE
29	APPLIED MATERIALS	CORE
30	IBM	NON-CORE
31	TEXAS INSTRUMENTS	CORE
32	ANALYTICS QUOTIENT	NON-CORE
33	MU SIGMA	NON-CORE
34	L&T ECC	CORE
35	GENERAL MOTORS	CORE
36	TATA MOTORS	CORE
37	BAJAJ AUTO	CORE
38	AFFINE ANALYTICS	NON-CORE
39	ZOMATO	CORE
40	NAGARRO SOFTWARES	CORE
41	BOMBARDIER	CORE
42	MAHINDRA & MAHINDRA	CORE
43	CUBASTION	NON-CORE
44	POWER2SME	CORE & NON-CORE
45	SAP LABS	CORE



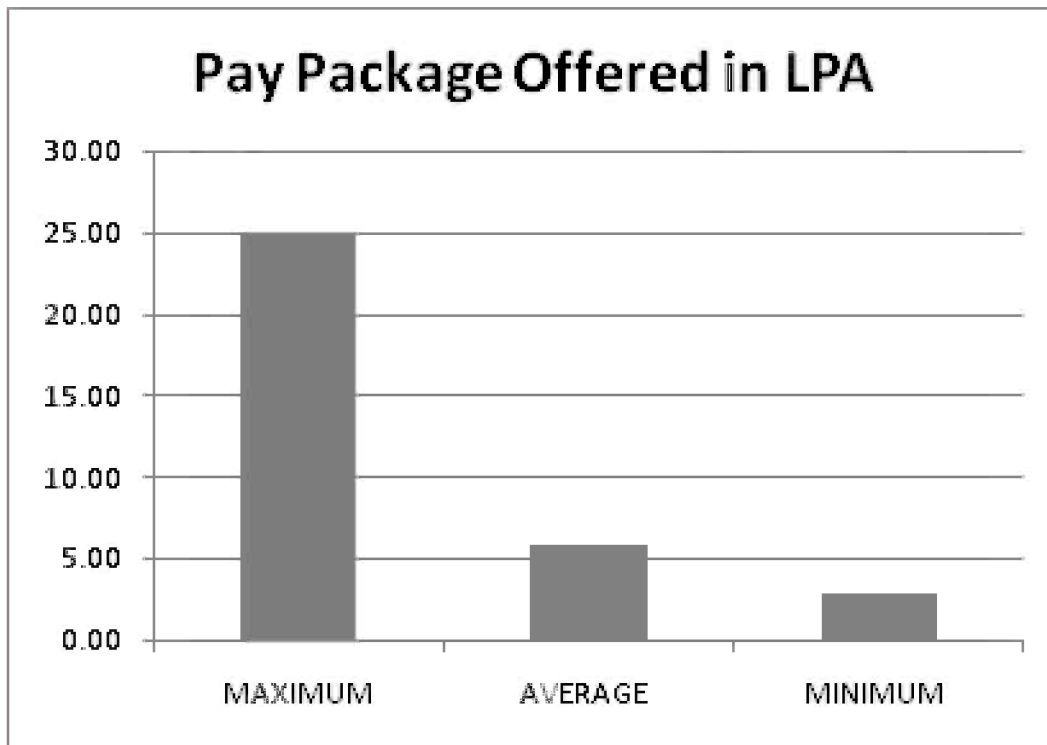
46	CAIRN INDIA	CORE
47	VOYLLA	NON-CORE
48	MAZARS UK	CORE & NON-CORE
49	CARDEKHO	NON-CORE
50	TATA POWER DDL	CORE
51	SECUREMETERS	CORE
52	HONDA CARS	CORE
53	VODAFONE	NON-CORE
54	ATKINS	CORE
55	SCHAEFFLER	CORE
56	WIPRO	CORE
57	INFOSYS-CORE	CORE
58	MISYS	CORE
59	HERO MOTOCORP	CORE
60	LAVA INTERNATIONAL	CORE
61	TRANSORG	NON-CORE
62	RELIANCE INDUSTRIES LTD.	CORE
63	VEDANTA GROUP	CORE
64	TORRECID INDIA	CORE
65	AVANTI LEARNING	NON-CORE
66	RESONANCE	NON-CORE
67	HSBC	CORE
68	EXL SERVICES	NON-CORE
69	SIEMENS	CORE
70	BHARAT ELECTRONICS LTD.	CORE
71	PIPAVAV DEFENCE & OFFSHORE ENGINEERING COMPANY LTD.	CORE
72	GODREJ & BOYCE	NON-CORE
73	ADANI POWER	CORE
74	BRAHMOS AEROSPACE	CORE
75	AMDOCS	CORE
76	Q3 TECHNOLOGIES	CORE
77	VAIBHAV GLOBAL	CORE
78	INDIAN SYNTHETIC RUBBER LTD	CORE
79	KEC INTERNATIONAL	CORE
80	SUBROS	CORE
81	RAYS POWER INFRA	CORE
82	PARUL UNIVERSITY	NON-CORE
83	ACCRETE CONSULTING ENGINEERS	CORE
84	TRACTORS INDIA PVT. LTD.	CORE
85	HAVELLS INDIA	CORE
86	REIL	CORE



87	YASHI CONSULTING ENGINEERS PVT. LTD.	CORE
88	DECATHLON SPORTS INDIA	NON-CORE
89	VARDHMAN SPECIAL STEELS	CORE
90	SAGACIOUS RESEARCH	NON-CORE
91	HPCL	CORE
92	UEM	CORE
93	AFCONS	NON-CORE
94	SAINT GOBAIN	CORE
95	SOLAR91	CORE

Placement Session 2015-16 (Till 30th May 2016)

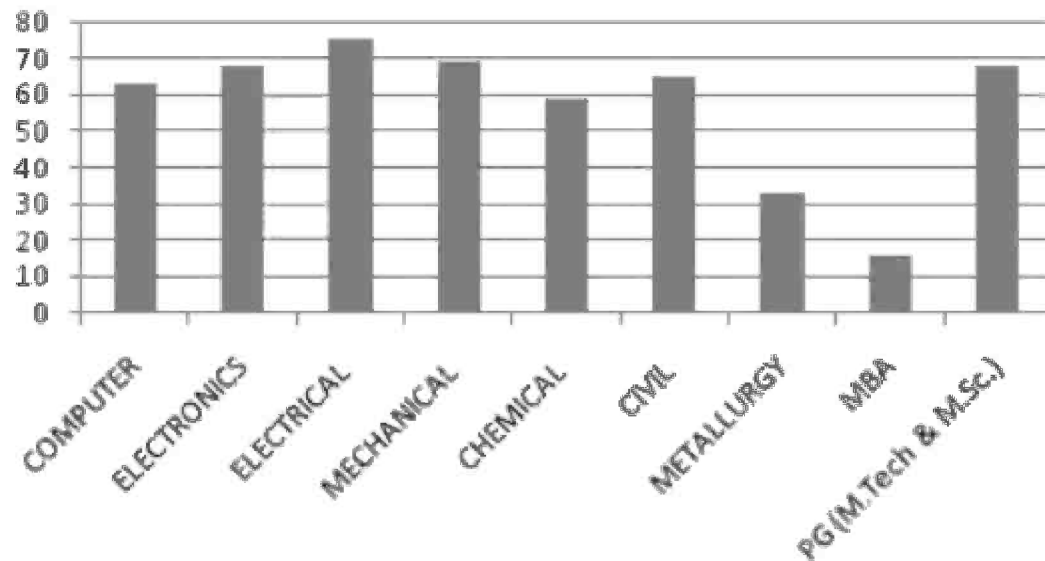
MAXIMUM	AVERAGE	MINIMUM
25.00	5.77	2.88



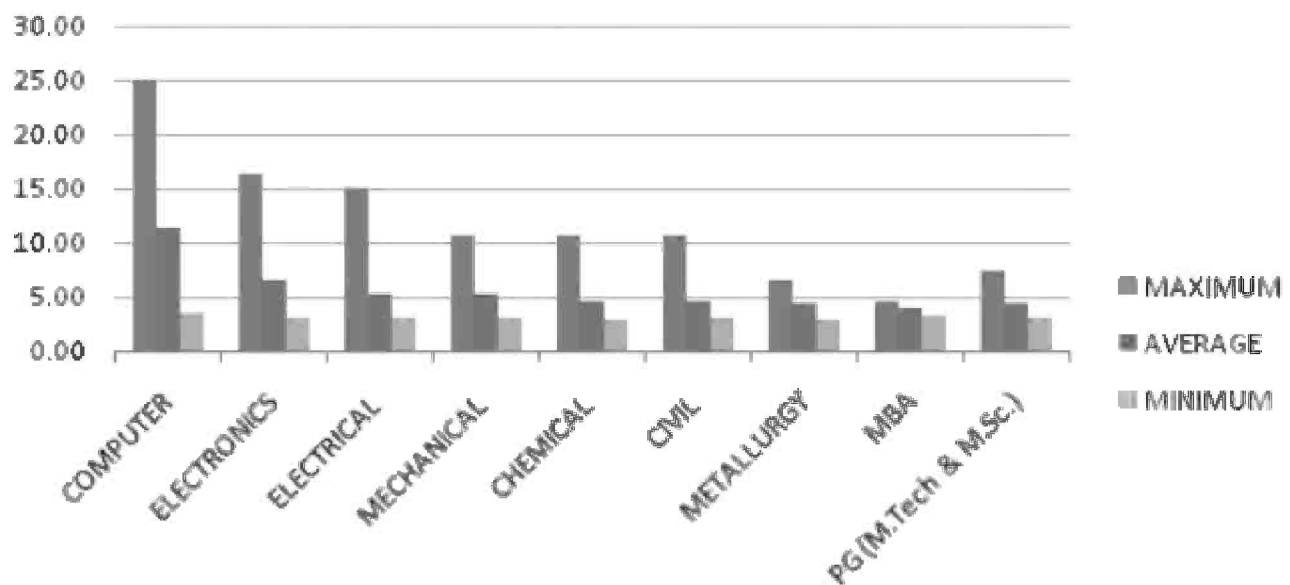
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Branch-wise offers



Branch-wise Offers (Min, Max & Average)



Placement Data



Part II

Annual Accounts



सत्यमेव जयते

Speed folder
संख्या / No. SAR-PT (Exp) / SAR / MNJT / 15-16 /
2016-17 / 1950-51
भारतीय लेखापरीक्षा और लेखा विभाग
कार्यालय प्रधान निदेशक लेखापरीक्षा (केन्द्रीय)
शाखा कार्यालय राजस्थान, जनपथ, जयपुर-302 005

INDIAN AUDIT AND ACCOUNTS DEPARTMENT
Office of the Principal Director of Audit (Central)
Branch office Rajasthan, Janpath, Jaipur-302 005

To,
The Secretary,
Government of India,
Ministry of Human Resources Development,
Department of Secondary & Higher Education,
New Delhi-110001

दिनांक / Date..... 23-12-16

Sub.: Separate Audit Report on the accounts of Malaviya National Institute of Technology, Jaipur for the year 2015-16.

Sir,

Please find enclosed the Separate Audit Report on the accounts of Malaviya National Institute of Technology, Jaipur for the year 2015-16 along with copy of Annual Accounts.

2. The Audited accounts and Separate Audit Report required to be placed before the AGM of the Apex Governing Body of the Institute for consideration and adoption and resolutions passed thereon before these are sent by the Ministry for being placed before parliament.
3. The dates of presentation of Audited Accounts and Separate Audit Report before the Parliament may please be intimated. Five sets of printed documents (Audit Report, Annual Report & Audited Accounts) may also please be sent to this office.
4. Hindi version of the Separate Audit Report will be issued shortly.
5. Kindly acknowledge receipt of the documents.

Encl.: As above

Yours sincerely,

Sd/-
Deputy Director
Central Receipt Audit-II

Mahalekhakar Bhawan, Janpath, Jaipur-302005
Phone/फोन : 0141-2385431-39
E-mail : bpdacahmedabad@cag.gov.in

महालेखाकार भवन, जनपथ, जयपुर-302005
फैक्स/Fax : 0141-2385038

23/12/16

No. CRA-II (Exp.)/SAR/MNIT/2015-16/ 1951

Dated: 23-12-2016

Copy of the Separate Audit Report and Audited Accounts forwarded to Shri Uday Kumar Yaragatti, Director, Malaviya National Institute of Technology, JLN Marg, Jaipur- 302017 (Rajasthan) with the remarks to ensure that Audited Accounts and Separate Audit Report is adopted/considered in the AGM of Institute's Apex Governing Body and resolution adopted/considered on the Audited Accounts and report thereon may be furnished to this office.
Encl : As above



**Deputy Director
Central Receipt Audit-II**

Separate Audit Report of the Comptroller & Auditor General of India on the Accounts of Malaviya National Institute of Technology (MNIT), Jaipur for the year ended 31 March 2016

We have audited the attached Balance Sheet of the Malaviya National Institute of Technology (MNIT), Jaipur as at 31 March 2016, the Income and Expenditure Account and the Receipts and Payments Accounts for year ended on that date under Section 19(2) of the Comptroller & Auditor General's (Duties, Powers & Conditions of Service) Act 1971 read with Section 22(2) of the National Institute of Technology Act, 2007. These financial statements are the responsibility of MNIT's management. Our responsibility is to express an opinion on these financial statements based on our audit.

2. This Separate Audit Report contains the comments of the Comptroller & Auditor General of India (CAG) on the accounting treatment only with regard to classification, conformity with the best accounting practices, accounting standards, disclosure norms, etc. Audit observations on financial transactions with regard to compliance with the Law, Rules & Regulations (Propriety and Regularity) and efficiency-cum-performance aspects, etc., if any, are reported through Inspection Reports/CAG's Audit Reports separately.
3. We have conducted our audit in accordance with the auditing standards generally accepted in India. These standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatements. An audit includes examining, on a test basis, evidences supporting the amounts and disclosure in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of financial statements. We believe that our audit provides a reasonable basis for our opinion.
4. Based on our audit, we report that:
 - i. We have obtained all the informations and explanations, which to the best of our knowledge and belief were necessary for the purpose of our audit.

- ii. The Balance Sheet, Income & Expenditure Account and Receipts & Payments Account, dealt with by this report have been drawn up in the format approved by Ministry of Human Resources Development, Government of India vide order No. 29-4/2012-FD dated 17 April 2015.
- iii. In our opinion, proper books of accounts and other relevant records have been maintained by the Institute in so far as it appears from our examination of such books.
- iv. We further report that:

Comments on Accounts:

A Balance Sheet

A.1.1 Corpus /Capital Fund (Schedule 1) ₹ 36247.52 lakh

MNIT disclosed the Fixed Assets amounting to ₹ 1580.53 lakh acquired by utilizing the fund received for implementing the sponsored Projects/Schemes as own Fixed Assets under Schedule-4 in Final Accounts of the Institute as detailed below.

(₹ in lakh)						
Projects	Research Fund	TEQIP-II	CBERD	CMICS	UK INDIA	TOTAL
Fixed Assets	323.36	1041.88	120.48	8.37	50.18	1544.27
Depreciation	26.85	0	7.04	0.36	2.01	36.26
Total	350.21	1041.88	127.52	872925.81	52.19	1580.53

Thus, it resulted in overstatement of Capital Fund by ₹ 1580.53 lakh, Deficit by ₹ 36.26 lakh and Fixed Assets by ₹1544.27 lakh.

A.1.2. Designated/Earmarked/Endowment Fund (Schedule-2) ₹ 6294.52 lakh

There was a debit balance of ₹ 31.35 lakh of Plan Grant received for IIIT-Kota from Central Government at the year ending on 31.03.2016. However, the MNIT instead of disclosing it as an item of Loans and Advances in Assets side, netted it with the balance of Other Earmarked Funds which resulted in understatement of Designated/Earmarked/Endowment Fund as well as Current Asset by ₹ 31.35 lakh.

A.1.3. Current Liabilities (Schedule-3) ₹ 6668.41 lakh

A.1.3.1 MNIT disclosed 12 personal accounts having debit balance of ₹ 6668.41 lakh as minus credit in respective schedules 3(A6(c)) Sponsored Fellowship and Scholarships ₹ 0.55 lakh (2 cases), 3(A6(d)), unutilised grant from UGC, GoI and State Governments ₹ 6895.10 lakh (8 Cases) and 3 (A6(g)) other liabilities ₹ 3.23 lakh (2 cases).

Thus, it has resulted in understatement of Current Liabilities as well as Loans and Advances by ₹ 6898.88 lakh.

A.1.3.2 Deposit Others (EMD and Security Deposits) (Schedule-3(A4)) ₹ 614.62 lakh

Security deposit by MNIT against electricity connection amounting to ₹ 27.26 lakh. was wrongly included to Creditors for Security Deposit of Firm/Contractors instead of disclosing as assets under Loans and Advances in balance sheet.

It has resulted in Understatement of Current Liabilities as well as Loans and Advances by ₹ 27.26 lakh.

B Income and Expenditure Account

B.1 Expenditure

B.1.1 Depreciation (Schedule-23) ₹ 995.15 lakh

B.1.1.1 MNIT purchased software for ₹ 40.79 lakh (3 Items of Linux Server Software and 50 Items of Linux Desktop Software for ₹ 8.07 lakh and Rsoft Software for ₹ 32.72 lakh) during the year 2015-16. These software are misclassified as Plant and Machinery and charged depreciation @ 5 percent instead of @ 40 Percent.

It resulted in overstatement of Plant and Machinery by ₹ 38.75 lakh, understatement of Software by ₹ 24.47 lakh and Depreciation as well as Deficit by ₹ 14.28 lakh.

B.1.1.2 During the year 2015-16 MNIT purchased a subscription for IEL Online Journals amounting to ₹ 19.40 lakh and wrongly debited to Library Books and Scientific Journals instead of E-Journals. Institute charged depreciation @10 percent instead of @ 40 percent

It resulted in overstatement of Library Books and Scientific Journals by ₹ 17.46 lakh, understatement of E-Journals by ₹ 11.64 lakh and understatement of depreciation as well as Deficit by ₹ 5.82 lakh.

C. General

(i) MNIT revised its Depreciation Policy in the year 2014-15 by adopting Straight Line Method in place of Written-Down Method of depreciation. However neither impact of depreciation has been ascertained nor have balances of Fixed Assets been adjusted in accordance of Accounting Standard-6 on Depreciation. Hence depreciation as well as amount of depreciable Fixed Assets could not be verified by Audit. Despite of commenting in last year Separate Audit Report the matter is still unresolved.

- (ii) MNIT did not account for consultancy charges ₹ 1.24 lakh in the year. It had resulted in understatement of Current Liabilities as well as Current Assets by ₹ 1.24 lakh. Despite of commenting in last year Separate Audit Report the matter is still unresolved.
- (iii) MNIT provides for Gratuity as well as Leave encashment payable to its eligible staff members. The balance of provision for Gratuity was ₹ 2884.00 lakh and that of Provision for Leave Encashment was ₹ 2099.65 lakh as shown in the Balance Sheet. The appropriateness of the amount of these provisions could not be verified by Audit for want of Actuary Certificate.
- (iv) **Statutory Liabilities ₹ 79.51 lakh**
- It is understated by ₹ 2.16 lakh as it is worked out after deducting 2.13lakh on account of dues of PF deposits and 0.03 lakh on account of overpayment of VAT/Raj.Sales Tax from the total of statutory liabilities lying outstanding at the year end
- It resulted in understatement of Current Liabilities (Statutory) as well as Loans and Advances by 2.16 lakh.

D. Grant -in-Aid

In the beginning of year 2015-16 ₹ 2340 lakh was receivable as plan grant from Government of India. During the year 2015-16 the MNIT received grant-in-aid of ₹ 10600.00lakh (Plan ₹ 7200.00 lakh and Non-Plan ₹ 3400.00 lakh from Government of India. The institute could utilized a sum of ₹ 18462.25 lakh (Plan ₹ 10946.76 lakh and Non-Plan ₹ 7515.49 lakh) leaving a balance of ₹ (-) 10202.25 lakh as on 31st March 2016.

E. Net Impact of Comments on Accounts

The net impact of comments given in the preceding paras is that as on 31st March, 2016, the assets were understated by ₹ 5393.12 lakh and liabilities were understated by ₹ 5376.96 lakh and deficit was overstated by ₹ 16.16 lakh.

F. Management letter

Deficiency, which has not been included in the Separate Audit Report, has been brought to the notice of the Management through a management letter issued separately for remedial/corrective action.

- v. Subject to our observations in the preceding paragraphs, we report that the Balance Sheet, Income & Expenditure Account and Receipts & Payments Account dealt with by this report are in agreement with the books of accounts.
- vi. In our opinion and to the best of our information and according to the explanations given to us, the said financial statements read together with the Accounting Policies and Notes on Accounts, and subject to the significant matters, stated above and other matters mentioned in Annexure to this Separate Audit Report give a true and fair view in conformity with accounting principles generally accepted in India.
- a. In so far as it relates to the Balance Sheet, of the state of affairs of the Malaviya National Institute of Technology, Jaipur as at 31 March 2016, and
- b. In so far as it relates to Income & Expenditure Account of the deficit for the year ended on that date.

For and on behalf of the C&AG of India

Place: Ahmedabad

Date: 23-12-2016



Principal Director of Audit (Central)
Ahmedabad

**Annexure to draft Separate Audit Report on the Accounts of MNIT, Jaipur
for the year 2015-16**

1. Adequacy of Internal Audit System

The internal audit system needs to be strengthened as bank reconciliation was not completed and misclassification of software and Journal was stated in comment No. B1.1.1 and B1.1.2.

2. Adequacy of Internal Control

The internal control system was not adequate as out of 41 department physical verification of Fixed Asset of three department was done and physical verification of inventory was not conducted since 2010-11. Further statutory dues were lying outstanding for more than one year.

3. Physical Verification of Assets

Physical verification of fixed Assets in three Departments namely-Management Studies, Security Cell, and Department of Physics were completed during the year 2015-16.

4. Physical Verification of Inventory

Physical Verification of Inventory was carried out up to the year 2009-10.

5. Regularity in payment of Statutory Dues

MNIT regular in payment of Statutory dues except ₹ 8317 of Labour Cess and ₹ 49920/- of GSLIS which are lying outstanding for more than a year.

Sr. Audit Officer/(Exp.)

**Statement of Net Effect of Audit Malaviya National Institute of Technology
(MNIT), Jaipur for the year ended 31 March 2016**

(₹in lakh)

S.No	Comments	Liabilities		Assets		Deficit	
		Overstated	Understated	Overstated	Understated	Overstated	Understated
1	A.1.1	1580.53	-	1544.27	-	36.26	
2	A.1.2		31.35	-	31.35		
3	A.1.3.1		6898.88	-	6898.88		
4	A.1.3.2		27.26	-	27.26		
5	B.1.1.1		-	38.76	24.48		14.28
6	B.1.1.2		-	17.46	11.64		5.82
	Total	1580.53	6957.49	1600.49	6993.61	36.26	20.10
	Net Impact		5376.96		5393.12	16.16	

Deficit Overstated = ₹ 16.16 lakh

Add Liabilities Understated = ₹ 5376.96 lakh

Assets Understated - ₹ 5393.12 lakh


Sr. Audit Officer/CRA II (Exp.)



डी. पी. यादव, आई.ए.ए.एस.
D. P. Yadav, IAAS

प्रधान निदेशक लेखा परीक्षा (केन्द्रीय)
अहमदाबाद
Principal Director of Audit (Central)
Ahmedabad

No. CRA-II (Exp.)/SAR/MNIT/2015-16/1951A
20 December 2016

Dear *Shri Yaragatti,*

The Annual Accounts of the Malaviya National Institute of Technology, Jaipur for the year 2015-16 were audited by undersigned for which a Separate Audit Report has been issued vide letter No. CRA II (Exp.)/SAR/MNIT/2015-16/1951 dated 23-12-2016. During the course of audit, the following deficiency was noticed which has not been included in the Separate Audit Report. This is being brought to your notice for corrective and remedial action.

2. Bank Reconciliation Statement (BRS) of SB A/c No. 676801139624 with ICICI Bank contained an item-clerical error by the bank amounting to ₹ 21959.00 which has been deducted from the cash book balance. However, no such entry has been traced in the bank statement for the period 01-04-2015 to 31-03-2016 given by the bank hence the BRS was not complete to that extent.

With regards,

Yours Sincerely,

M. Yadav

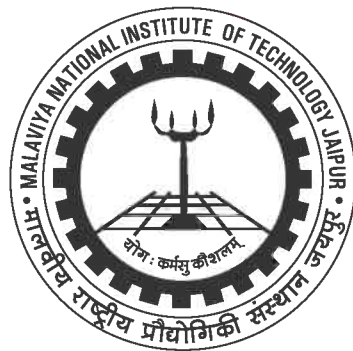
Shri Uday Kumar Yaragatti,
Director,
Malaviya National Institute of Technology,
JLN Marg,
Jaipur-302017

Phone : 079-26560133
Fax : 079-26560134

4th Floor, Audit Bhavan, Navrangpura, Ahmedabad-380 009.
E-mail : yadavDP@cag.gov.in

BALANCE SHEET

Receipt & Payment Account
and
Income & Expenditure Account
for the year ended
31st March, 2016



Malaviya National Institute of Technology Jaipur
J.L.N. Marg, Jaipur – 302017



MNIT JAIPUR

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR
Balance Sheet 2015 – 16

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MNIT JAIPUR

Balance Sheet as on 31st March 2016

Amount in Lakh

Sources of Funds	Schedule	Current Year	Previous Year
CORPUS/CAPITAL FUND	1	36,247.52	28,661.13
DESIGNATED / EARMARKED / ENDOWMENT FUNDS	2	6,294.52	5,346.56
CURRENT LIABILITIES AND PROVISIONS	3	6,668.41	9,107.50
TOTAL		49,210.45	43,115.19
ASSETS			
FIXED ASSETS	4	38,641.07	29,823.19
INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS	5	2,763.40	1,938.91
INVESTMENTS - OTHERS	6	-	-
CURRENT ASSETS	7	5,141.65	5,968.45
LOANS ADVANCES AND DEPOSITS	8	2,664.33	5,384.64
TOTAL		49,210.45	43,115.19

Significant Accounting Policies 23

Contingent Liabilities and Notes to Accounts 24


Assistant Registrar


Registrar


Director

**Income & Expenditure Account for the year ended on 31st March 2016****Amount in Lakh**

Particulars	Schedule	Current Year	Previous Year
INCOME			
ACADEMIC RECEIPTS	9	2,378.41	1,965.03
GRANTS / SUBSIDIES	10	5,672.68	4,284.13
INCOME FROM INVESTMENTS	11	0.00	0.00
INTEREST EARNED	12	427.61	310.86
OTHER INCOME	13	556.53	725.09
PRIOR PERIOD INCOME	14	9.25	0.00
TOTAL (A)		9,044.47	7,285.10
EXPENDITURE			
STAFF PAYMENTS AND BENEFITS (ESTABLISHMENT EXPENSES)	15	7,641.36	5,873.68
ACADEMIC EXPENSES	16	1,548.89	706.54
ADMINISTRATIVE AND GENERAL EXPENSES	17	1,046.94	862.60
TRANSPORTATION EXPENSES	18	2.12	0.83
REPAIRS AND MAINTENANCE	19	168.00	171.50
FINANCE COSTS	20	2.54	0.00
OTHER EXPENSES	21	0.00	0.00
PRIOR PERIOD EXPENSES	22	75.93	-9.52
DEPRECIATION		995.15	773.86
TOTAL (B)		11,480.93	8,379.49
Balance being excess of Income over Expenditure(A-B)		-2,436.46	-1,094.39

Significant Accounting Policies 23

Contingent Liabilities and Notes to Accounts 24


Assistant Registrar


Registrar


Director



SCHEDULE-1 CORPUS FUND/CAPITAL FUND

Amount in ₹

Particulars	Current Year	Previous Year
Balance at the Beginning of the Year	2,866,113,178.18	1708434361.83
Add: Contributions towards Corpus/Capital Fund	18,608,957.57	65584009.56
Add: Grants from Government of India and State Government to the extent utilized for capital expenditure	983,677,903.62	1201533563.83
Add: Assets Purchased out of Earmarked Funds	-	-
Add: Assets Purchased out of Sponsored Projects, where ownership vests in the institution	-	-
Add: Assets Donated/Gifts Received	-	-
Add: Other Additions	-	-
Add: Excess of Income over expenditure transferred from the Income & Expenditure Account	-243,648,100.96	-109438757.18
Total	3,624,751,938.41	2866113178.04
(Deduct) Deficit transferred from the Income & expenditure Account	-	-
Balance at the year end	3,624,751,938.41	2866113178.04



SCHEDULE-2 DESIGNATED / EARMARKED / ENDOWMENT FUNDS

Particulars	Amount in ₹													
	PENSION DEPOSIT	RESEARCH DEVELOPMENT FUND	NEW PG COURSE FRIDGED BALANCE	SPECIAL TRAINING PROGRAMME FOR SCST STUDENTS	STUDENT FUND ENDOWMENT / EARMARKED FUND	STAFF DEVELOPMENT FUND	MAINTENANCE FUND	DEPRECIATION FUND	INSTITUTE INFRASTRUCTURE FUND	OTHER EARMARKED FUND	ENDOWMENT FUNDS	GUEST HOUSE	Current Year	Previous Year
a) Opening Balance	10,195.00	18,424,996.25	205,297.25	2,993,319.00	397,010,208.71	85,389,414.93	13,721,883.44	13,721,883.47	119,048.89	-671,468.39	-	3,731,000.61	534,655,779.16	475,436,786.37
b) Additions during the year	-	-	-	-	-	5,140,090.83	5,140,090.83	5,140,090.83	-	-	-	-	15,420,272.49	17,049,643.00
c) Income from investments made of the funds	887.00	4,993,422.46	-	-	88,179,551.06	4,993,932.22	-	-	-	2,006,590.00	-	-	100,174,382.74	65,502,162.79
d) Accrued Interest on investments / Advances	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e) Interest on Savings Bank A/C	-	-	-	-	-	-	-	-	-	-	-	186,560.00	186,560.00	23,000.00
f) Other Income	-	-	-	-	-	-	-	-	-	-	-	6,881,920.00	6,881,920.00	5,939,755.00
Total (A)	11,082.00	23,418,418.71	205,297.25	2,993,319.00	485,189,759.77	95,523,437.98	18,861,974.27	18,861,974.30	119,048.89	1,335,121.61	-	10,799,480.61	657,318,914.39	563,951,347.16
Utilisation/Expenditure towards objectives of funds														
a) Capital Expenditure	-	-	-	-	-	-	-	-	-	-	-	-	-	-
b) Revenue Expenditure	-	1,075,333.00	-	-	21,061,484.52	15,000.00	-	-	-	2,967,468.00	-	2,747,348.00	27,866,633.52	29,295,568.00
Total (B)	-	1,075,333.00	-	-	21,061,484.52	15,000.00	-	-	-	2,967,468.00	-	2,747,348.00	27,866,633.52	29,295,568.00
Closing Balance (A-B)	11,082.00	22,343,085.71	205,297.25	2,993,319.00	464,128,275.25	95,508,437.98	18,861,974.27	18,861,974.30	119,048.89	-1,632,346.39	-	8,052,132.61	629,452,280.87	534,655,779.16

(Signature)
Registrar

(Signature)
Assistant Registrar

SCHEDULE-3 CURRENT LIABILITIES & PROVISIONS

Amount in ₹

Particulars	Current Year	Previous Year
A. CURRENT LIABILITIES		
1. DEPOSITS FROM STAFF	53,225.00	52,725.00
2. DEPOSITS FROM STUDENTS	56,766,908.00	50,616,792.00
3. SUNDRY CREDITORS		
a) FOR GOODS AND SERVICES	118,925,374.67	165,479,839.90
b) OTHERS	1,503,704.00	-
4. DEPOSIT OTHERS(EMD AND SECURITY DEPOSIT)	61,462,186.42	66,120,822.42
5. STATUTORY LIABILITIES(GPF/TDS/WC TAX/CPF/		
a) OVERDUE	-	-
b) OTHERS	7,950,938.48	8,407,213.36
6. OTHER CURRENT LIABILITIES		
a) SALARIES	35,305,646.15	37,242,070.89
b) RECEIPTS AGAINST SPONSORED PROJECTS	274,514,723.88	140,563,009.78
c) RECEIPTS AGAINST SPONSORED FELLOWSHIPS	478,827.50	478,827.50
d) UNUTILISED GRANTS	-672,129,336.09	-234,006,801.79
e) GRANTS IN ADVANCE	-	-
f) OTHER FUNDS	-	-
g) OTHER LIABILITIES	282,164,233.12	310,953,963.07
Total	166,996,431.13	545,908,462.13
B. PROVISIONS		
GRATUITY ACTUARIAL LIABILITIES	288,400,095.00	184,218,145.00
LEAVE ENCASHMENT ACTUARIAL LIABILITIES	209,964,824.00	179,250,145.00
PROVISION FOR AUDIT FEES	1,019,130.00	1,176,940.00
LEAVE SALARY CONTRIBUTION PROVISION	152,287.00	82,663.00
PROVISION FOR PENSION CONTRIBUTION	307,776.00	113,933.00
Total	499,844,112.00	364,841,826.00
Grand Total	666,840,543.13	910,750,288.13


Assistant Registrar


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SCHEDULE-3(A1) DEPOSIT FROM STAFF

Particulars	Amount in ₹	
	Current Year	Previous Year
SECURITY DEPOSIT BY STAFF	38,000.00	37,500.00
STAFF CLUB (TECHING) (DEPOSIT HEAD)	-670.00	-670.00
STAFF CLUB N.T.S.A. (DEPOSIT HEAD)	895.00	895.00
DEPOSIT FROM STAFF (CONSULTANCY)	15,000.00	15,000.00
Total	53,225.00	52,725.00

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SCHEDULE-3(A2) DEPOSIT FROM STUDENT

Amount in ₹

Particulars	Current Year	Previous Year
CAUTION MONEY	54,806,192.00	48,903,992.00
SECURITY DEPOSIT BY STUDENTS	1,930,916.00	1,683,000.00
STUDENT FEE REFUNDABLE	29,800.00	29,800.00
Total	56,766,908.00	50,616,792.00

B. K. Sharma
Assistant Registrar

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SCHEDULE-3(A3(a)) SUNDRY CREDITORS - FOR GOODS AND SERVICES

Amount in ₹

Particulars	Current Year	Previous Year
ABHINAV ENTERPRISES	1,779,509.00	-
ADB PUBLICATION DIVISION	25.00	-
AMDISA HYDERABAD	1,125.00	-
AMIT SALES CORPORATION	13,282.00	-
AMOUNT PAYABLE TO FIRM	-	-
ASIA PACIFIC CENTRE FOR ENERGY CHENNAI	313.00	-
BIOMOLE INDIA	21,782.00	-
BIPL AC INSIDE OUTSIDE MUMBAI	138.00	-
BIRLA INSTITUTE OF TECH MESRA RANCHI	250.00	-
BLOCKDALE MUMBAI	338.00	-
CALCUTTA MATHEMATICAL SOCIETY KOLKATA	688.00	-
CENTRAL MANUFACTURING TECH INSTITUTE BANGALORE	286.00	-
COUNCIL OF ARCHITECTURE NEW DELHI	75.00	-
CPWD	7,892,878.00	7,892,878.00
DEPOSIT OF M/S ABHINAV ENTERPRISES	1,707,621.00	5,026,918.00
DEPOSIT OF M/S PRASHUTTOM AIRCON, JAIPUR	-	365,114.00
DEPOSIT OF MBA MANAGEMENT TECHNOLOGY	2,299,458.00	2,299,458.00
DIRECTOR INDIAN INSTI OF PUBLIC ADM NEW DELHI	75.00	-
DR S C HAJELA LUCKNOW	250.00	-
DR. M K BANARJEE	16,838.00	-
DRONAH GURGAON	125.00	-
ECONOMIC AND POLITICAL WEEKLY MUMBAI	1,050.00	-
EDITOR INDIAN JOURNAL OF POLITICAL SCIENCE	600.00	-
EDITOR LITTERIT THIRUVANANTHAPURAM	175.00	-
EFY ENTERPRISES PVT LTD NEW DELHI	150.00	-
EXPOSURE MEDIA MARKETING GURGAON	420.00	-
FINANCE OFFICER JNU NEW DELHI	75.00	-
GREEN EARTH FOUNDATION JAIPUR	200.00	-
IAAPC DELHI CHAPTER DELHI	250.00	-
IASLIC BULLETIN KOLKATA	500.00	-
IETE NEW DELHI	1,069.00	-
INDIAN ACADEMY OF SCIENCE BANGALORE	1,400.00	-
INDIAN CHEMICAL SOCIETY KOLKATA	1,375.00	-
INDIAN INSTITUTE OF INDUSTRIAL ENGINEERING MUMBAI	125.00	-
INDIAN JOURNAL OF HETEROCYCLIC CHEMISTRY LUCHNOW	500.00	-
INDIAN NATIONAL SCIENCE ACADEMY NEW DELHI	475.00	-
INDIAN WATER WORKS ASSOCIATION MUMBAI	50.00	-
INSTITUTE OF CONSTITUTIONAL AND PARLIAMENTARY STUD	143.00	-
INSTITUTE OF TOWN PLANNER NEW DELHI	250.00	-
JASUBHAI MEDIA PVT LTD MUMBAI	825.00	-
JEN EXAM FOR PHED	-	9,948,686.00
KRISHTAL EMAGING SOLUTION PVT LTD CHENNAI	1,000.00	-
LA JOURNAL OF LANDSCAPE ARCHITECTURE NEW DELHI	250.00	-
LIBRARY PLAN	-600,000.00	-600,000.00
LIVING MEDIA INDIA LTD NOIDA	600.00	-
M/S A.O BSNL PGMTD	76,151.00	72,927.00
M/S A.S. INFOWAYS	110,274.00	-
M/S ACCELRY S K K JAPAN	2,600,000.00	-
M/S ACE CHEMICALS JAIPUR	4,622.00	-
M/S ADARSH SPORTS JAIPUR	55,221.00	-
M/S ADITI BOOKS DISTRIBUTER JAIPUR	-	-
M/S ADITYA ENTERPRISES	18,790.00	-
M/S ADVANCE SCIENTIFIC INTERNATIONAL, HOWRAH	3,680.00	95,680.00
M/S AIMIL LTD.	829,013.00	351,473.00

Particulars	Current Year	Previous Year
M/S AIR CONDITIONING SYSTEM PVT LTD NEW DELHI	3,776,123.00	-
M/S AKASHDEEP PRODUCTION JAIPUR	-	-
M/S ALLIED INFORMATICS	5,021.00	5,021.00
M/S AMAFHH ELECTRONICS JAIPUR	41,298.00	-
M/S AMIT SALES	-	90,470.00
M/S ANAND HOMEIO STORE	6,717.00	-
M/S ANKUR AGENCIES JAIPUR	-	32,130.00
M/S ANSH TRADING CO.	150,287.00	261,465.00
M/S APICAL O PRINT STATIONERS JAIPUR	38,859.00	-
M/S ARYA OMNI TALK WIRELESS SOLUTION	44,940.00	-
M/S ASHISH BOOKS MARKETING SERVICES NEW DELHI	-	-
M/S ASIAN BOOK PVT LTD NEW DELHI	-	-
M/S ATLANTIC PUBLISHER AND DISTRIBUTER	675.00	-
M/S AYUSH ELECTRICALS	337,118.00	337,118.00
M/S BABA RAMDEV	-	-
M/S BABA RAMDEV CONSTRUCTION AND ENGINERRING	-	1,153,735.00
M/S BHAYA	200,000.00	200,000.00
M/S BOOKMEN ASSOCIATES, JAIPUR	-	-
M/S BRIGHTWAY AGENCIES CHANDIGARH	-	-
M/S CAPITAL BOOKS PVT LTD NEW DELHI	-	-
M/S CECON POLLUTECH SYSTEM PVT LTD	-	537,900.00
M/S CENSICO INTERNATIONAL	-	125,580.00
M/S CENTRAL BOARD OF IRRIGATION POWER NEW DELHI	1,500.00	-
M/S CHANNEL PUBLICATION FARIDABAD	-	-
M/S CHOPRA ALLUMINTUM	750,001.00	750,001.00
M/S DEEPAK ELECTRICALS JAIPUR	14,248.00	-
M/S DYNATECH ENGINEERS	27,080.00	-
M/S ECOSENCE SOLUTION PVT LTD	108,938.00	-
M/S EDUCATION POINT, JAIPUR	-	-
M/S ELECTRONIC INSTRUMENT AND MACHINERY CORP	48,670.00	48,670.00
M/S ELOVA ENTERPRISES	250,210.00	2,830.00
M/S FRANCIS KLEIN AND CO.PVT.LTD	304,026.00	-
M/S GAUTAM BOOK COMPANY, JAIPUR	-	-
M/S GAUTTAM ELECTRICALS JAIPUR	44,569.00	-
M/S GLOBAL INFORMATION SYSTEM TECHNOLOGY SYSTEM GU	-	646,655.00
M/S GLOBAL PRESENTATION, JAIPUR	4,139,648.00	11,523,022.00
M/S GLOBAL STORE	63,840.00	63,840.00
M/S GOLDENRAY SERVICES	145,542.00	112,783.00
M/S GOLDY COMPU CARE	12,600.00	-
M/S H AND H TECHNOLOGIES JAIPUR	-	-
M/S HEMANTIC ASSOCIATES JAIPUR	11,900.00	349,472.00
M/S HEWLETT PACKRD INDIA SALES PVT LTD JAIPUR	532,265.79	-
M/S ICON ANALYTICAL EQUIPMENT PVT. LTD.	757,640.00	810,912.00
M/S INDIA BOOK HOUSE	7,146.00	7,146.00
M/S INFORMATICS PUBLISHING LTD BANGALORE	-	-
M/S INNOVA LAB-INSTRUMENTS PVT. LTD.	-	169,648.00
M/S INTERGRAPH SG AND I INDIA PVT. LTD	-	2,128,660.00
M/S ITP TELECOM SERVICES JAIPUR	52,999.00	-
M/S JAI NIRMAN JAIPUR	184,337.00	184,337.00
M/S JAI SHREE ENTERPRISES	-	172,519.00
M/S JAIN GLASS AND FURNITURE HOUSE JAIPUR	8,643.00	-
M/S JOHNSON LIFTS	1,000,000.00	-
M/S KANHAIYA MEDICAL HALL JAIPUR	226,721.93	-
M/S KANISHK STEEL	300,000.00	300,000.00
M/S KMV PROJECT	3,770,911.00	38,684,594.00
M/S LIBERTY SPORTS JAIPUR	369,004.00	32,813.00
M/S LIBSYS LTD NEW DELHI	110,377.00	4,754,909.00



Particulars	Current Year	Previous Year
M/S MADHU ART AND CRAFTS JAIPUR	5,520.00	-
M/S MAHENDRA CONSTRUCTION JAIPUR	327,800.00	-
M/S MEHUL BOOK SALES MUMBAI	-	-
M/S METRO TRADING CORPORATION JAIPUR	-	15,994.00
M/S MICRO TOOLS PIE LTD SINGAPORE	3,904.00	-
M/S MVS ENGINEERING LIMITED NEW DELHI	238,750.00	238,750.00
M/S NAVRATNA INFRA PROJECT	-	247,805.00
M/S NETWEB TECHNOLOGIES	653,835.00	-
M/S OPTOCHEM INTERNATIONAL	258,770.00	258,770.00
M/S OSAW INDUSTRIAL PRODUCTS PVT LTD AMBALLA CANT	632,040.00	632,040.00
M/S OVERSEAS PRESS INDIA PVT LTD NEW DELHI	-	-
M/S PACE INFOSOLUTION PVT LTD CHANDIGARH	-	-
M/S PAPER PLUS JAIPUR	77,580.00	-
M/S PARI ENTERPRISES	10,400.00	-
M/S PERFEX AUTOMATION PVT.LTD	790,322.00	790,322.00
M/S PLUMSOFT SOLUTION PVT LTD	126,000.00	800,235.00
M/S POOJA ENTERPRISES	19,800.00	19,800.00
M/S PRADHAN ENTERPRISES	235,255.00	-
M/S PRIME ASSOCIATES	50,716.00	-
M/S PROFESSIONAL HR SERVICES PVT LTD	959,691.00	568,515.00
M/S R K FRIGHT SYSTEM	1,675,074.00	-
M/S RAJPUTANA ELECTRIC TRADING CO.	278,957.00	278,957.00
M/S RAMKY INFRASTRUTURE LTD	6,346.00	6,346.00
M/S RANK INFOTECH PVT. LTD	37,180.00	-
M/S REET TRADERS	74,798.00	-
M/S ROHIT TRADERS JAIPUR	36,520.00	-
M/S S S ENGINEERS CORPORATION	224,000.00	2,240,000.00
M/S SAMYAK ARTHIECTS	50,000.00	50,000.00
M/S SANVARIYA	400,000.00	400,000.00
M/S SARTHAK SALES JAIPUR	48,413.00	11,214.00
M/S SARVODAYA	1,500,000.00	1,500,000.00
M/S SAVITA SCIENTIFIC AND PLASTIC PRODUCTS	21,944.00	-
M/S SCEINTIFIC GREEN AGENCIES	39,998.00	39,998.00
M/S SCEINTIFIC MES TECHNIC PVT LTD	-	27,486.00
M/S SHANKAR BOOK AGENCY PVT LTD NEW DELHI	-	-
M/S SHREE BALAJI TRADING CO.	19,973.00	-
M/S SHREE GANPATI CONSTRUCTION	-	1,015,173.00
M/S SHREE MARKETING AND AGENCIES JAIPUR	42,079.00	-
M/S SHREE SHIVKHORI CONSTRUCTION COMPANY JAIPUR	106,280.00	-
M/S SHREE SHYAM ENTERPRISES	61,100.00	-
M/S SHREEJI ENTERPRISE	118,602.00	95,025.00
M/S SHRI RADHA GOVIND ASSOCIATES	38,490.00	38,490.00
M/S SIDDHARTH TECHOCRAT JAIPUR	13,650.00	-
M/S SKY CONSTRUCTION JAIPUR	57,556.00	6,901.00
M/S STEEL HOME	1,800.00	-
M/S SUJATA ENTERPRISES	-	890,400.00
M/S SURESH GOEL AND ASSOCIATES NEW DELHI	2,762,853.00	1,307,462.00
M/S SWATI ENTERPRISES	-	99,727.00
M/S SWEAT IT SPORTS JAIPUR	6,200.00	-
M/S SYNCOTTS INTERNATIONAL DELHI	127,382.00	2,826,072.00
M/S SYNERGY SYSTEM UDAIPUR	9,975.00	-
M/S TEAM COMPUTER PVT LTD	114,762.00	-
M/S TECHNO SERVICES	238,350.00	238,350.00
M/S TECHNOS INSTRUMENTS	254,190.00	-
M/S THE NATIONAL SMALL INDUSTRIES CORP LTD.	2,926,350.00	-
M/S THE SCIENTIFIC AND GENERAL AGENCIES	164,632.00	-39,998.00
M/S THYSSEN KRUPP ELEVATOR PVT LTD	539,130.00	206,130.00



Particulars	Current Year	Previous Year
M/S TIRUMALA PHOLONIC	294,000.00	294,000.00
M/S TOOTTECH INDIA PVT LTD NEW DELHI	101,237.00	-
M/S TOTAL IT SOLUTION PVT LTD	372,522.00	-
M/S TRADE SCIENCE INC RAJKOT	2,100.00	-
M/S UMISUM	-	-
M/S UNISUN TECHNOLOGIES PVT LTD JAIPUR	-	-
M/S UNISYSTEM NEW DELHI	2,052,386.00	-
M/S UNITECH WORKS	3,894,853.00	-
M/S UNIVERSITY BOOK HOUSE PVT LTD JAIPUR	-	-
M/S VARALIKA COMPU POWER SYSTEM JAIPUR	5,600.00	-
M/S VARDHMAN FAB TECH	641,160.00	3,183,769.00
M/S VATIKA INTERNATIONAL JAIPUR	34,465.00	-
M/S VINAYAK ELECTRICAL JAIPUR	306,620.00	-
M/S VISION TECHNOLOGY	61,604.00	27,268.00
M/S WELLEORTH BOOKS INTERNATIONAL NEW DELHI	-	-
M/S YAMBERZAL INTERNATIONAL JAIPUR	-	92,114.00
MIS HITACHI HOME AND LIFE SOLUTION	226,846.00	226,846.00
MS RESEARCH BOOKS STERIODICALS PVT LTD	-	-
NATIONAL INSTITUTE OF URBAN AFFAIRS NEW DELHI	125.00	-
NICMAR PUNE	500.00	-
NISCAIR NEW DELHI	3,100.00	-
NITIE MUMBAI	125.00	-
OSWAL ENERPRISES	10,190.00	-
RAJASTHAN ACADEMY OF PHYSICAL SCIENCE JAIPUR	175.00	-
RAMANUJAN MATHEMATICAL SOCIETY MYSORE	350.00	-
RE MARKETING AGRA	225.00	-
SAGE PUBLICATION IND PVT LTD NEW DELHI	3,020.00	-
SANWARIYA ENTERPRISES, JAIPUR.	83,120.00	144,270.00
SARDAR PATEL INST OF ECONOMICS AND SOCIAL RESEARCH	50.00	-
SECRETARY GENERAL INDIAN ROADS CONGRESS NEW DELHI	200.00	-
SENIOR ACCOUNTS OFFICER CPRI BANGALORE	500.00	-
SERIAL PUBLICATION PVT LTD NEW DELHI	750.00	-
SHRI RAM CENTRE FOR IR HR	450.00	-
SPRINGER PVT LTD NEW DELHI	5,598.00	-
SUNDRY CREDITORS	-0.57	-0.55
TDS PAYABLE	7,760,075.15	8,899,792.00
TECHNOSCIENCE PUBLICATION KARAD MAHARASHTRA	875.00	-
TERI NEW DELHI	135.00	-
THE AEN D-III JVVNL LTD JAIPUR	2,391,447.00	-
THE INDIAN INSTITUTE OF METALS KOLKATA	2,500.00	-
THE INSTITUTE OF INDIAN FOUNDRYMEN KOLKATA	525.00	-
THE SECRETARY SAHITYA ACADEMY NEW DELHI	63.00	-
M/S. M RAGHUNATH AND CO. (TEQIP)	15,000.00	15,000.00
SUNDRY CREDITORS (CONSULTANCY)	49,416,170.12	48,842,789.20
SUNDRY CREDITORS (U K INDIA)	4,664.25	4,664.25
SUNDRY CREDITORS (TEQIP)	156,939.00	-
Total	118,925,374.67	165,479,839.90

B. K. Kishore

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SCHEDULE-3(A3(b)) SUNDRY CREDITORS - OTHERS

Amount in ₹

Particulars	Current Year	Previous Year
CCDDR 2015	303,704.00	-
PAYABLE TO SWAMI SIVANANDA (SCHOLARSHIP)	1,200,000.00	-
Total	1,503,704.00	-


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SCHEDULE-3 (A4) DEPOSIT OTHERS (EMD, SECURITY DEPOSIT)

Amount in ₹

Particulars	Current Year	Previous Year
ADVANCE TO FIRM THROUGH AR (STORE)	376,280.92	376,280.92
CANTEEN CONTRACTOR DEPOSIT	2,550.00	2,550.00
DCRGS DEPOSIT	485,768.00	485,768.00
DEPOSIT FROM CPWD	8,859,525.00	14,747,220.00
DEPOSIT FROM R and C	19,021.00	19,021.00
DEPOSIT OF AUTOMETIC PHOTOCOPIES	2,686.00	2,686.00
DEPOSIT OF FIRMS	-36,889.00	-36,889.00
DEPOSIT OUT OF TESTING	90,850.50	90,850.50
EARNEST MONEY (DEPOSIT HEAD)	6,704,216.00	3,604,088.00
FINISHING SCHOOL COURSE DEPOSIT	11,250.00	11,250.00
LIBRARY SECURITY DEPOSIT	5,450.00	5,450.00
M/S VINAYAK ELECTRICLAS (DEPOSIT)	0	0
MESS DEPOSIT	1,724,500.00	1,724,500.00
MREC T.A. (DEPOSIT HEAD)	491	341
SECURITY DEPOSIT OF FIRM / CONTRACTORS (DEPOSIT HEAD)	41,455,594.00	43,413,285.00
SPINFED DEPOSIT	1,720.00	1,720.00
TEQIP FUND DEPOSIT	814,666.00	814,666.00
SECURITY DEPOSIT (TEQIP)	105,740.00	155,740.00
SECURITY DEPOSIT (R AND C)	616,008.00	540,257.00
SECURITY DEPOSIT (CBERD)	222,759.00	162,038.00
Total	61,462,186.42	66,120,822.42



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**SCHEDULE-3 A5 (b) DEPOSIT OTHERS (EMD, SECURITY DEPOSIT)**

Amount in ₹

Particulars	Current Year	Previous Year
GSLIS (DEPOSIT HEAD)	49,920.87	51,401.75
LABOUR CESS	8,317.00	278,610.00
PAYABLE FOR PENSION	7,676,988.00	7,110,070.00
PENSION (EMPLOYER) CONTRIBUTION	38,090.00	26,791.00
PENSION (OWN) CONTRIBUTION	29,347.00	18,050.00
PF DEPOSITS (DEPOSIT HEAD)	-212,923.39	-212,923.39
PF LOAN (OWN)	276,800.00	269,800.00
PF OWN SHARE	58,500.00	-
ROYALTY DEPOSIT	28,725.00	29,197.00
VAT / RAJ. SALES TAX. (DEPOSIT HEAD)	-2,826.00	836,217.00
Total	7,950,938.48	8,407,213.36

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SCHEDULE-3 A6(a) OTHER CURRENT LIABILITIES - SALARIES

Amount in ₹

Particulars	Current Year	Previous Year
PROVISION MARCH SALARY AND PENSION	0	0
SALARY PAYABLE	34,130,762.20	36,091,062.00
UNDISBURSED SALARY (DEPOSIT HEAD)	1,174,883.95	1,151,008.89
Total	35,305,646.15	37,242,070.89

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SCHEDULE-3 A6(b) SPONSORED PROJECTS

Amount in ₹

S. No.	Name of the Project	Opening Balance		Receipts/Recoveries during the Year		Total	Expenditure during the year		Closing Balance	
		Credit	Debit	Receipt	Income		Revenue	Capital	Credit	Debit
1	BIKANER ENGINEERING	100,000.00	-	-	-	100,000.00	-	-	100,000.00	-
2	PROJECTS GRANT (INSTITUTE FUND)	774,994.50	-	4,289,090.00	223,833.00	5,287,917.50	3,999,725.00	-	1,288,192.50	-
3	TRAVEL SEMINAR AND OTHER GRANTS	1,531,979.40	-	226,709.00	144,692.00	1,903,380.40	532,936.00	-	1,370,444.40	-
4	STUDENT FUND	583,656.90	-	-	-	583,656.90	-	-	583,656.90	-
5	EARMARKED FUND (R AND C)	62,973,759.11	-	174,708,063.96	10,393,586.71	248,075,409.78	46,261,505.90	17,334,624.18	184,479,279.70	-
6	UK INDIA	2,616,846.05	-	-	-	2,616,846.05	-	-	2,616,846.05	-
7	PROJECT CBERD - MNIT	28,908,954.00	-	9,529,500.00	1,678,127.59	40,116,581.59	7,772,528.37	4,786,577.05	27,557,476.17	-
8	TEQIP	43,072,819.82	-	25,000,000.00	3,957,653.34	72,030,473.16	2,865,953.00	12,645,692.00	56,518,828.16	-
Total		140,563,009.78	-	213,753,362.96	16,397,892.64	370,714,265.38	61,432,648.27	34,766,893.23	274,514,723.88	-

Note

1. The Projects may be listed agency-wise, with sub-totals for each agency.
2. The total of Col. 8 (Credit) will appear under the above head on the liabilities side of the Balance Sheet (Schedule 3).
3. The total of Col. 9 (Debit) will appear as Receivables in Schedule 8, Loans, Advances and Deposits, on the Assets side of the Balance Sheet.

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SCHEDULE-3 (A6(c)) SPONSORED FELLOWSHIPS AND SCHOLARSHIPS

Name of the Sponsor	Amount in ₹					
	Opening Balance As On 01-04-2016		Transactions during the year		Closing Balance As On 31-03-2016	
	Credit	Debit	Credit	Debit	Credit	Debit
1. UNIVERSITY GRANTS COMMISSION						
2. MINISTRY (GOVERNMENT OF INDIA)						
a) EMERITUS FELLOWSHIP						
EMERITUS FELLOSHIP TO DR. S K BHATNAGAR	25,812.00	-	-	-	25,812.00	-
b) CAREER AWARDS SCHEME TO YOUNG TEACHERS						
CAREER AWARD TO DR. ROHIT GOYAL	224,065.50	-	-	-	224,065.50	-
CAREER AWARD TO DR. VIJAY JANYANI	284,266.00	-	-	-	284,266.00	-
CAREER AWARD TO SHRI MANOJ FOZDAR	-	36,384.00	-	-	-	36,384.00
CAREER AWARD TO SHRI RAJESH KUMAR	-	18,932.00	-	-	-	18,932.00
3. OTHERS						
Total	534,143.50	55,316.00	-	-	534,143.50	55,316.00
Grand Total	478,827.50	-	-	-	478,827.50	-

Notes

1. The total of Column 7, (Credit) will appear under the above head, on the liabilities side of the Balance Sheet (Schedule 3).
2. The total of Column 8 (Debit) will appear as Receivables on the Assets side of the Balance Sheet in Schedule 8 (Loans, Advances and Deposits).

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SCHEDULE-3(A6(d)) UNUTILISED GRANTS FROM UGC, GOVERNMENT OF INDIA AND STATE GOVERNMENTS

Amount in ₹

Particulars	Current Year	Previous Year
A. PLAN GRANTS GOVT. OF INDIA		
Balance B/F	-214,473,933.44	38,520,949.72
Add: Receipts during the Year	720,000,000.00	1,000,000,000.00
Add: Income	-	-
Total (a)	505,526,066.56	1,038,520,949.72
Less: Refunds	-	-
Less: Utilized for Revenue Expenditure	145,764,837.07	63,072,971.33
Less: Utilized for Capital Expenditure	948,911,010.39	1,189,921,911.83
Total (b)	1,094,675,847.46	1,252,994,883.16
Unutilized carried forward (a-b)	-589,149,780.90	-214,473,933.44
B. MHRD GRANTS NON PLAN		
Balance B/F	4,869,098.30	47,395,597.78
Add: Receipts during the Year	340,000,000.00	320,000,000.00
Add: Income	-	-
Total (c)	344,869,098.30	367,395,597.78
Less: Refunds	-	-
Less: Utilized for Revenue Expenditure	418,402,313.84	362,526,499.48
Less: Utilized for Capital Expenditure	-	-
Total (d)	418,402,313.84	362,526,499.48
Unutilized carried forward (c-d)	-73,533,215.54	4,869,098.30
C. PHE GRANTS		
Balance B/F	-10,687,129.51	-8,676,602.51
Add: Receipts during the Year	676,000.00	-
Add: Income	-	-
Total (e)	-10,011,129.51	-8,676,602.51
Less: Refunds	-	-
Less: Utilized for Revenue Expenditure	2,282,886.00	2,010,527.00
Less: Utilized for Capital Expenditure	-	-
Total (f)	2,282,886.00	2,010,527.00
Unutilized carried forward (e-f)	-12,294,015.51	-10,687,129.51
D. QIP POLY GRANT		
Balance B/F	-4,788,973.00	-4,683,331.00
Add: Receipts during the Year	-	-
Add: Income	-	-
Total (g)	-4,788,973.00	-4,683,331.00
Less: Refunds	-	-
Less: Utilized for Revenue Expenditure	53,129.00	105,642.00
Less: Utilized for Capital Expenditure	-	-
Total (h)	53,129.00	105,642.00
Unutilized carried forward (g-h)	-4,842,102.00	-4,788,973.00
E. NON PLAN RECURRING GRANTS GOVT. OF RAJASTHAN		
Balance B/F	-4,726,421.10	-4,726,421.10
Add: Receipts during the Year	-	-
Add: Income	-	-
Total (i)	-4,726,421.10	-4,726,421.10



Particulars	Current Year	Previous Year
Less: Refunds	-	-
Less: Utilized for Revenue Expenditure	-	-
Less: Utilized for Capital Expenditure	-	-
Total (j)	-	-
Unutilized carried forward (i-j)	-4,726,421.10	-4,726,421.10
F. PLAN RECURRING GRANTS GOVT. OF RAJASTHAN		
Balance B/F	-12,680.78	-12,680.78
Add: Receipts during the Year	-	-
Add: Income	-	-
Total (k)	-12,680.78	-12,680.78
Less: Refunds	-	-
Less: Utilized for Revenue Expenditure	-	-
Less: Utilized for Capital Expenditure	-	-
Total (l)	-	-
Unutilized carried forward (k-l)	-12,680.78	-12,680.78
G. GRANT NATIONAL MANPOWER INFORMATION SYSTEM(NODEL CENTRE)		
Balance B/F	-3,836,762.26	-3,139,224.26
Add: Receipts during the Year	-	-
Add: Income	-	-
Total (m)	-3,836,762.26	-3,139,224.26
Less: Refunds	-	-
Less: Utilized for Revenue Expenditure	765,216.00	697,538.00
Less: Utilized for Capital Expenditure	-	-
Total (n)	765,216.00	697,538.00
Unutilized carried forward (m-n)	-4,601,978.26	-3,836,762.26
H. PLAN GRANT GOV. OF RAJASTHAN		
Balance B/F	-350,000.00	-350,000.00
Add: Receipts during the Year	-	-
Add: Income	-	-
Total (o)	-350,000.00	-350,000.00
Less: Refunds	-	-
Less: Utilized for Revenue Expenditure	-	-
Less: Utilized for Capital Expenditure	-	-
Total (p)	-	-
Unutilized carried forward (o-p)	-350,000.00	-350,000.00
I. PLAN GRANT FOR BARRIER FREE ENV SIPDA		
Balance B/F	-	-
Add: Receipts during the Year	17,380,858.00	-
Add: Income	-	-
Total (q)	17,380,858.00	-



Less: Refunds	-	-
Less: Utilized for Revenue Expenditure	-	-
Less: Utilized for Capital Expenditure	-	-
Total (r)	-	-
Unutilized carried forward (q-r)	17,380,858.00	-
Grand Total (A+B+C+D+E+F+G+H+I)	-672,129,336.09	-234,006,801.79

Notes

1. Unutilized grants includes advances on Capital Account.
2. Unutilized grants include grants received in advance for the next year.
3. Unutilized grants are represented on the Assets side by Bank balances, Short term Deposits with Banks and Advances on Capital Account.


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SCHEDULE-3(A6(g)) OTHER LIABILITIES

Amount in ₹

Particulars	Current Year	Previous Year
OTHER LIABILITIES		
ADVANCE DIGITAL AND DEVICE SYSTEM	8,597.00	-
ADVANCE TO RSBCC	1,021,002.00	1,021,002.00
AG DEDUCTION	-	-
AOT 2015	899.00	-
BANK LOAN (DEPOSIT HEAD)	4,191.00	4,191.00
CAMINOVA 2014	111.00	111.00
CCMT HELPING CENTRE	67,185.00	67,144.00
CENTER FOR INDUSTRIAL COLLABORATION	15,419.00	15,419.00
CLASS IV ASSOCIATION (DEPOSIT HEAD)	-	-
COMPENSATION FROM JDA	650,337.00	650,337.00
CORPORATE TRAINING PROGRAMME	100,887.00	100,887.00
CSAB HELPING CENTRE 2014	-225,164.00	4,700.00
CSIR SCHOERSHIP PAYABLE TO R AND C	-	-
DASA ADMISSION SUPPORT ACTIVITIES	94,498.00	94,498.00
DASA HELPING CENTRE	152,602.00	152,602.00
DEVELOPMENT OF CANTEEN	9,400.00	9,400.00
EPIP	20,000.00	20,000.00
FEE FOR OTHER RECS	83,278.00	83,278.00
FINANCIAL SUPPORT FROM CSIR NEW DELHI	50,000.00	-
HOUSING LOAN (DEPOSIT HEAD)	-	-
ISTAM 2015	-	-
JEE (ADVANCE) EXAMINATION 2014	-	-
JEN EXAM WATER RESOURCE DEPTT	3,573,173.00	3,573,173.00
LAB. CHARGES FROM MLV TEXTILES	20,125.00	20,125.00
LIC.(DEPOSIT HEAD)	1,543.50	0.90
LOAN FROM CCMT	70,000,000.18	101,934,732.18
LOAN FROM CSAB	80,000,000.00	150,000,000.00
LOAN FROM R AND C (SPONSER RESEARCH)	98,364,558.18	40,098,085.10
MATERIAL RESEARCH CENTRE	2,530,551.00	1,023,526.00



Particulars	Current Year	Previous Year
MISC. FUNDS ACCOUNT	53,053.00	53,053.00
MNIT KARAMCHARI SANGH	-	-
MST 2011	131,700.00	131,700.00
NCMAC 2015	1,897.00	134,500.00
NICA-2015	73,500.00	-
NIMCET2014	6,437.00	6,437.00
NIT ALLAHABAD DEDUCTION	-	-
NPS AMOUNT PAYABLE	98,525.92	-
NTSA (DEPOSIT HEAD)	-130.00	-130.00
P M RELIF FUND	3,626.00	3,626.00
PROJECT FUND TRANSFERRED TO R AND C	-222,668.00	-
PWD REQUIREMENT EXAMINATION	1,027,413.00	1,067,413.00
RAJ COMP (RSIL EXAM)	-100,244.00	-100,244.00
RD (DEPOSIT HEAD)	-	-
RECTIFICATION WORKS OF MAN AND WOMAN HOSTAL	1,500,500.00	1,500,500.00
REQUIRMENT OF ASISTTANT MANAGER	341,233.00	341,233.00
SCHOLARSHIP DEPOSIT	3,392,274.80	4,293,596.00
SCHOLARSHIP PAYABLE (STEEL CHAIR)	-	1,200,000.00
STALL CHEQUE ACCOUNT DEPOSIT	567,896.00	394,609.00
TESTING CHARGES	163,079.00	843,397.00
UNIVERSITY EXAMINATION FEE	450,952.89	450,952.89
WORK SHOP ON DATA ANALYTICS	79.00	-
OTHER LIABILITIES OF R AND C	15,607,372.65	11,798.00
ME PART TIME RESERVE AND SURPLUS	95,075.00	95,075.00
OTHER LIABILITIES OF ME PART TIME	20,860.00	20,860.00
OTHER LIABILITIES OF CONSULTANCY	1,641,184.00	1,632,376.00
OTHER LIABILITIES OF TEQIP	767,424.00	-
Total	282,164,233.12	310,953,963.07

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SCHEDULE- 4 FIXED ASSETS

Amount in ₹

S.No	Assets Heads	Gross Block			Depreciation for the year 2016			Net Block			
		Opening Balance 01-04-2015	Additions	Deductions	Closing Balance	Depreciation Opening Balance	Depreciation for the Year	Deductions / Adjustments	Total Depreciation	31-03-2016	31-03-2015
1	LAND	42,920,612.26	-	-	42,920,612.26	-	-	-	-	42,920,612.26	42,920,612.26
2	SITE DEVELOPMENT	-	-	-	-	-	-	-	-	-	-
3	BUILDINGS	1,060,179,733.38	16,924,210.00	-	1,077,103,943.38	301,879,724.26	15,657,794.94	-	317,537,519.20	759,566,424.18	758,300,009.12
4	ROADS AND BRIDGES	-	-	-	-	-	-	-	-	-	-
5	TUBEWELLS AND WATER SUPPLY	2,350,738.00	849,107.00	-	3,199,845.00	1,285,192.72	38,727.96	-	1,323,920.68	1,875,924.32	1,065,545.28
6	SEWERAGE AND DRAINAGE	1,001,632.00	-	-	1,001,632.00	40,066.00	40,066.00	-	80,132.00	921,500.00	961,566.00
7	ELECTRICAL INSTALLATION AND EQUIPMENT	13,558,256.00	15,708,686.00	-	29,266,942.00	3,789,262.18	1,325,617.13	-	5,114,879.31	24,152,062.69	9,768,993.82
8	PLANT AND MACHINERY	712,457,701.03	181,687,184.39	1,131,144.00	893,013,741.42	267,473,631.75	33,796,300.29	-	301,269,932.04	591,743,809.38	444,984,069.28
9	SCIENTIFIC AND LABORATORY EQUIPMENT	5,812,125.00	17,334,624.18	-	23,146,749.18	464,970.00	1,851,740.00	-	2,316,710.00	20,830,039.18	5,347,155.00
10	OFFICE EQUIPMENT	103,836,095.75	19,964,771.05	-	123,800,866.80	4,836,559.00	3,215,080.93	-	8,051,639.93	115,749,226.87	98,999,536.75
11	AUDIO VISUAL EQUIPMENT	-	-	-	-	-	-	-	-	-	-
12	COMPUTERS AND PERIPHERALS	144,359,501.87	335,035.00	-	144,694,536.87	123,112,778.73	5,426,173.34	-	128,538,952.07	16,155,584.80	21,246,723.14
13	FURNITURE, FIXTURES AND FITTINGS	223,987,407.11	29,922,732.00	-	253,910,139.11	44,390,345.30	16,761,321.32	-	61,151,666.62	192,758,472.49	179,597,061.81
14	VEHICLES	8,441,000.71	-	-	8,441,000.71	3,777,092.22	518,212.06	-	4,295,304.28	4,145,696.43	4,663,908.49
15	LIB BOOKS AND SCIENTIFIC JOURNALS	81,500,490.63	11,540,609.00	19,567,029.00	73,474,070.63	24,148,008.43	5,174,641.90	-	29,322,650.33	44,151,420.30	57,352,482.20
16	SMALL VALUE ASSETS	772,855.00	15,150.00	-	788,005.00	772,854.99	15,150.00	-	788,004.99	0.01	0.01
	Total (A)	2,401,178,148.74	294,282,108.62	20,698,173.00	2,674,762,084.36	775,970,485.58	83,820,825.87	-	859,791,311.45	1,814,970,772.91	1,625,207,663.16
17	CAPITAL WORK IN PROGRESS	1,343,419,614.00	708,113,025.00	17,773,317.00	2,033,759,322.00	-	-	-	-	2,033,759,322.00	1,343,419,614.00
	Total (B)	1,343,419,614.00	708,113,025.00	17,773,317.00	2,033,759,322.00	-	-	-	-	2,033,759,322.00	1,343,419,614.00
18	COMPUTER SOFTWARE	80,040,445.47	165,493.00	-	80,205,938.47	66,348,744.13	9,193,998.09	-	75,542,742.22	4,663,196.25	13,691,701.34
19	E-JOURNALS	-	19,588,767.00	-	19,588,767.00	-	8,875,014.80	-	8,875,014.80	10,713,752.20	-
20	PATENTS AND COPYRIGHTS	-	-	-	-	-	-	-	-	-	-
	Total (C)	80,040,445.47	19,754,260.00	-	99,794,705.47	66,348,744.13	18,069,012.89	-	84,417,757.02	15,376,948.45	13,691,701.34
	Grand Total (A+B+C)	3,824,638,208.21	1,022,149,393.62	38,471,490.00	4,808,316,111.83	842,319,229.71	101,889,838.76	-	944,209,068.47	3,864,107,043.36	2,982,318,978.50

Notes

- The figure in Column "Deductions" under Gross Block against the head Capital Work in Progress represents the transfer from Work in Progress to Assets during the year.
- The figures in column "Additions during the year" under Gross Block against Assets 1 to 14 include transfer from Work in Progress during the year, as well as further acquisitions during the year.

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Amount in ₹

SCHEDULE- 4 A PLAN - MNIT

S. No	Assets Heads	Gross Block				Depreciation for the year 2016				Net Block	
		Opening Balance 01-04-2015	Additions	Deductions	Closing Balance	Depreciation Opening Balance	Depreciation for the Year	Deductions / Adjustments	Total Depreciation	31-03-2016	31-03-2015
1	LAND	42,920,612.26	-	-	42,920,612.26	-	-	-	-	42,920,612.26	42,920,612.26
2	SITE DEVELOPMENT	-	-	-	-	-	-	-	-	-	-
3	BUILDINGS	1,041,423,384.22	16,924,210.00	-	1,058,347,594.22	293,960,823.48	15,599,434.42	-	309,560,257.90	748,787,336.32	747,462,560.74
4	ROADS AND BRIDGES	-	-	-	-	-	-	-	-	-	-
5	TUBEWELLS AND WATER SUPPLY	2,350,738.00	849,107.00	-	3,199,845.00	1,285,192.72	38,727.96	-	1,323,920.68	1,875,924.32	1,065,545.28
6	SEWERAGE AND DRAINAGE	1,001,632.00	-	-	1,001,632.00	40,066.00	40,066.00	-	80,132.00	921,500.00	961,566.00
7	ELECTRICAL INSTALLATION AND EQUIPMENT	13,558,256.00	15,708,686.00	-	29,266,942.00	3,789,262.18	1,325,617.13	-	5,114,879.31	24,152,062.69	9,768,993.82
8	PLANT AND MACHINERY	656,281,456.25	181,687,184.39	1,131,144.00	836,837,496.64	225,859,958.99	33,029,849.03	-	258,889,808.02	577,947,688.62	430,421,497.26
9	SCIENTIFIC AND LABORATORY EQUIPMENT	-	-	-	-	-	-	-	-	-	-
10	OFFICE EQUIPMENT	32,830,880.00	2,676,904.00	-	35,507,784.00	3,617,934.88	2,585,266.05	-	6,203,200.93	29,304,583.07	29,212,945.12
11	AUDIO VISUAL EQUIPMENT	-	-	-	-	-	-	-	-	-	-
12	COMPUTERS AND PERIPHERALS	130,652,364.75	190,633.00	-	130,842,997.75	109,560,161.65	5,323,377.38	-	114,883,539.03	15,959,458.72	21,092,203.10
13	FURNITURE, FIXTURES AND FITTINGS	222,030,768.11	29,922,732.00	-	251,953,500.11	43,250,022.51	16,739,941.03	-	59,989,963.54	191,963,536.57	178,780,745.60
14	VEHICLES	8,127,746.71	-	-	8,127,746.71	3,490,584.15	515,240.29	-	4,005,824.44	4,121,922.27	4,637,162.56
15	LIB BOOKS AND SCIENTIFIC JOURNALS	59,883,637.63	11,540,609.00	19,567,029.00	51,857,217.63	24,103,048.63	5,129,681.90	-	29,232,730.53	22,624,487.10	35,780,589.00
16	SMALL VALUE ASSETS	772,855.00	15,150.00	-	788,005.00	772,854.99	15,150.00	-	788,004.99	0.01	0.01
	Total (A)	2,211,834,330.93	259,515,215.39	20,698,173.00	2,450,651,373.32	709,729,910.18	80,342,351.19	-	790,072,261.37	1,660,579,111.95	1,502,104,420.75
17	CAPITAL WORK IN PROGRESS	1,343,419,614.00	708,113,025.00	17,773,317.00	2,033,759,322.00	-	-	-	-	2,033,759,322.00	1,343,419,614.00
	Total (B)	1,343,419,614.00	708,113,025.00	17,773,317.00	2,033,759,322.00	-	-	-	-	2,033,759,322.00	1,343,419,614.00
18	COMPUTER SOFTWARE	79,666,295.47	165,493.00	-	79,831,788.47	66,199,084.13	9,044,338.09	-	75,243,422.22	4,588,366.25	13,467,211.34
19	E-JOURNALS	-	19,588,767.00	-	19,588,767.00	-	8,875,014.80	-	8,875,014.80	10,713,752.20	-
20	PATENTS AND COPYRIGHTS	-	-	-	-	-	-	-	-	-	-
	Total (C)	79,666,295.47	19,754,260.00	-	99,420,555.47	66,199,084.13	17,919,352.89	-	84,118,437.02	15,302,118.45	13,467,211.34
	Grand Total (A+B+C)	3,634,920,240.40	997,382,500.39	38,471,490.00	4,583,831,250.79	775,928,994.31	98,261,704.08	-	874,190,698.39	3,709,640,552.40	2,858,991,246.09

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SCHEDULE- 4 A PLAN - TEQIP

Amount in ₹

S. No	Assets Heads	Gross Block			Depreciation for the year 2016			Net Block		
		Opening Balance 01-04-2016	Additions	Deductions	Closing Balance	Depreciation Opening Balance	Deductions / Adjustments	Total Depreciation	31-03-2016	31-03-2015
1	LAND	-	-	-	-	-	-	-	-	-
2	SITE DEVELOPMENT	-	-	-	-	-	-	-	-	-
3	BUILDINGS	7,977,783.00	-	-	7,977,783.00	-	-	-	7,977,783.00	7,977,783.00
4	ROADS AND BRIDGES	-	-	-	-	-	-	-	-	-
5	TUBEWELLS AND WATER SUPPLY	-	-	-	-	-	-	-	-	-
6	SEWERAGE AND DRAINAGE	-	-	-	-	-	-	-	-	-
7	ELECTRICAL INSTALLATION AND EQUIPMENT	-	-	-	-	-	-	-	-	-
8	PLANT AND MACHINERY	-	-	-	-	-	-	-	-	-
9	SCIENTIFIC AND LABORATORY EQUIPMENT	-	-	-	-	-	-	-	-	-
10	OFFICE EQUIPMENT	61,844,423.00	12,645,692.00	-	74,490,115.00	-	-	-	74,490,115.00	61,844,423.00
11	AUDIO VISUAL EQUIPMENT	-	-	-	-	-	-	-	-	-
12	COMPUTERS AND PERIPHERALS	-	-	-	-	-	-	-	-	-
13	FURNITURE, FIXTURES AND FITTINGS	552,626.00	-	-	552,626.00	-	-	-	552,626.00	552,626.00
14	VEHICLES	-	-	-	-	-	-	-	-	-
15	LIB BOOKS AND SCIENTIFIC JOURNALS	21,167,255.00	-	-	21,167,255.00	-	-	-	21,167,255.00	21,167,255.00
16	SMALL VALUE ASSETS	-	-	-	-	-	-	-	-	-
	Total (A)	91,542,087.00	12,645,692.00	-	104,187,779.00	-	-	-	104,187,779.00	91,542,087.00
17	CAPITAL WORK IN PROGRESS	-	-	-	-	-	-	-	-	-
	Total (B)	-	-	-	-	-	-	-	-	-
18	COMPUTER SOFTWARE	-	-	-	-	-	-	-	-	-
19	E-JOURNALS	-	-	-	-	-	-	-	-	-
20	PATENTS AND COPYRIGHTS	-	-	-	-	-	-	-	-	-
	Total (C)	-	-	-	-	-	-	-	-	-
	Grand Total (A+B+C)	91,542,087.00	12,645,692.00	-	104,187,779.00	-	-	-	104,187,779.00	91,542,087.00

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SCHEDULE-4 A PLAN - RESEARCH & CONSULTANCY



MNIT JAIPUR

Amount in ₹

S. No	Assets Heads	Gross Block			Depreciation for the year			Net Block		
		Opening Balance 01-04-2016	Additions	Deductio ns	Closing Balance	Depreciation for the Year	Deductions / Adjustmen ts	Total Depreciation	31-03-2016	31-03-2015
1	LAND	0.00	0	0	0.00	0	0	0	0.00	0.00
2	SITE DEVELOPMENT	0	0	0	0.00	0	0	0	0.00	0.00
3	BUILDINGS	0.00	0	0	0.00	0	0	0	0.00	0.00
4	ROADS AND BRIDGES	0	0	0	0.00	0	0	0	0.00	0.00
5	TUBEWELLS AND WATER SUPPLY	0.00	0	0	0.00	0	0	0	0.00	0.00
6	SEWERAGE AND DRAINAGE	0.00	0	0	0.00	0	0	0	0.00	0.00
7	ELECTRICAL INSTALLATION AND EQUIPMENT	0.00	0	0	0.00	0	0	0	0.00	0.00
8	PLANT AND MACHINERY	13,827,968.00	0	0	13,827,968.00	0	609445	2,248,514.97	10,970,008.03	11,579,453.03
9	SCIENTIFIC AND LABORATORY EQUIPMENT	5812125	17334624.18	0	23,146,749.18	0	1851740	464970	20,830,039.18	5,347,155.00
10	OFFICE EQUIPMENT	20,785.00	0	0	20,785.00	0	1559	1,538.88	17,667.12	19,226.12
11	AUDIO VISUAL EQUIPMENT	0	0	0	0.00	0	0	0	0.00	0.00
12	COMPUTERS AND PERIPHERALS	138,990.00	0	0	138,990.00	0	27798	27,798.00	83,394.00	111,192.00
13	FURNITURE, FIXTURES AND FITTINGS	0.00	0	0	0.00	0	0	0.00	0.00	0.00
14	VEHICLES	0.00	0	0	0.00	0	0	0.00	0.00	0.00
15	LIB BOOKS AND SCIENTIFIC JOURNALS	449,598.00	0	0	449,598.00	0	44960	44,960	359,678.20	404,638.20
16	SMALL VALUE ASSETS	0.00	0	0	0.00	0	0	0.00	0.00	0.00
	Total (A)	20,249,466.00	17,334,624.18	0.00	37,584,090.18	0.00	2,535,502.00	2,787,801.65	32,260,786.53	17,461,664.35
17	CAPITAL WORK IN PROGRESS	0.00	0	0	0.00	0	0	0	0.00	0.00
	Total (B)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	COMPUTER SOFTWARE	374,150.00	0	0	374,150.00	0	149660	149,660.00	74,830.00	224,490.00
19	E-JOURNALS	0	0	0	0.00	0	0	0	0.00	0.00
20	PATENTS AND COPYRIGHTS	0	0	0	0.00	0	0	0	0.00	0.00
	Total (C)	374,150.00	0.00	0.00	374,150.00	0.00	149,660.00	149,660.00	74,830.00	224,490.00
	Grand Total (A+B+C)	20,623,616.00	17,334,624.18	0.00	37,958,240.18	0.00	2,685,162.00	2,937,461.65	32,335,616.53	17,686,154.35

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SCHEDULE- 4 A PLAN - CMSIC

S. No	Assets Heads	Gross Block			Depreciation for the year			Net Block		
		Opening Balance 01-04-2016	Additions	Deductions	Closing Balance	Depreciation for the Year	Deductions / Adjustments	Total Depreciation	31-03-2016	31-03-2015
1	LAND	-	-	-	-	-	-	-	-	-
2	SITE DEVELOPMENT	-	-	-	-	-	-	-	-	-
3	BUILDINGS	1,126,927.00	-	-	1,126,927.00	6,422.62	-	818,641.44	308,285.56	314,708.18
4	ROADS AND BRIDGES	-	-	-	-	-	-	-	-	-
5	TUBEWELLS AND WATER SUPPLY	-	-	-	-	-	-	-	-	-
6	SEWERAGE AND DRAINAGE	-	-	-	-	-	-	-	-	-
7	ELECTRICAL INSTALLATION AND EQUIPMENT	-	-	-	-	-	-	-	-	-
8	PLANT AND MACHINERY	7,399,694.50	-	-	7,399,694.50	28,752.10	-	6,882,156.70	517,537.80	546,289.90
9	SCIENTIFIC AND LABORATORY EQUIPMENT	-	-	-	-	-	-	-	-	-
10	OFFICE EQUIPMENT	-	-	-	-	-	-	-	-	-
11	AUDIO VISUAL EQUIPMENT	-	-	-	-	-	-	-	-	-
12	COMPUTERS AND PERIPHERALS	52,000.00	-	-	52,000.00	-	-	51,999.00	1.00	1.00
13	FURNITURE, FIXTURES AND FITTINGS	63,744.00	-	-	63,744.00	966.87	-	52,786.14	10,957.86	11,924.73
14	VEHICLES	-	-	-	-	-	-	-	-	-
15	LIB BOOKS AND SCIENTIFIC JOURNALS	-	-	-	-	-	-	-	-	-
16	SMALL VALUE ASSETS	-	-	-	-	-	-	-	-	-
	Total (A)	8,642,365.50	-	-	8,642,365.50	36,141.59	-	7,805,583.28	836,782.22	872,923.81
17	CAPITAL WORK IN PROGRESS	-	-	-	-	-	-	-	-	-
	Total (B)	-	-	-	-	-	-	-	-	-
18	COMPUTER SOFTWARE	-	-	-	-	-	-	-	-	-
19	E-JOURNALS	-	-	-	-	-	-	-	-	-
20	PATENTS AND COPYRIGHTS	-	-	-	-	-	-	-	-	-
	Total (C)	-	-	-	-	-	-	-	-	-
	Grand Total (A+B+C)	8,642,365.50	-	-	8,642,365.50	36,141.59	-	7,805,583.28	836,782.22	872,923.81

Prakash
Assistant Registrar

Prakash
Registrar



SCHEDULE- 4 A PLAN - INDUSTRIAL CONSULTANCY CELL

Amount in ₹

S. No	Assets Heads	Gross Block				Depreciation for the year			Net Block
		Opening Balance 01-04-2016	Additions	Deductions	Closing Balance	Depreciation for the Year	Deductions/ Adjustments	Total Depreciation	
1	LAND	-	-	-	-	-	-	-	31-03-2015
2	SITE DEVELOPMENT	-	-	-	-	-	-	-	-
3	BUILDINGS	-	-	-	-	-	-	-	-
4	ROADS AND BRIDGES	-	-	-	-	-	-	-	-
5	TUBEWELLS AND WATER SUPPLY	-	-	-	-	-	-	-	-
6	SEWERAGE AND DRAINAGE	-	-	-	-	-	-	-	-
7	ELECTRICAL INSTALLATION AND EQUIPMENT	-	-	-	-	-	-	-	-
8	PLANT AND MACHINERY	-	-	-	-	-	-	-	-
9	SCIENTIFIC AND LABORATORY EQUIPMENT	-	-	-	-	-	-	-	-
10	OFFICE EQUIPMENT	-	-	-	-	-	-	-	-
11	AUDIO VISUAL EQUIPMENT	-	-	-	-	-	-	-	-
12	COMPUTERS AND PERIPHERALS	89,016.00	-	-	89,016.00	83.00	-	88,684.60	31-03-2016
13	FURNITURE, FIXTURES AND FITTINGS	-	-	-	-	-	-	-	-
14	VEHICLES	-	-	-	-	-	-	-	-
15	LIB BOOKS AND SCIENTIFIC JOURNALS	-	-	-	-	-	-	-	-
16	SMALL VALUE ASSETS	-	-	-	-	-	-	-	-
Total (A)		89,016.00	-	-	89,016.00	83.00	-	88,684.60	331.40
Total (B)		-	-	-	-	-	-	-	-
18	COMPUTER SOFTWARE	-	-	-	-	-	-	-	-
19	E-JOURNALS	-	-	-	-	-	-	-	-
20	PATENTS AND COPYRIGHTS	-	-	-	-	-	-	-	-
Total (C)		-	-	-	-	-	-	-	-
Grand Total (A+B+C)		89,016.00	-	-	89,016.00	83.00	-	88,684.60	331.40
Grand Total (A+B+C)		-	-	-	-	-	-	-	414.40

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SCHEDULE- 4 A PLAN - UK - INDIA

S. No	Assets Heads	Gross Block			Depreciation for the year			Net Block		
		Opening Balance 01-04-2016	Additions	Deduct-ions	Closing Balance	Depreciation for the Year	Deductions/ Adjustments	Total Depreciation	31-03-2016	31-03-2015
1	LAND	-	-	-	-	-	-	-	-	-
2	SITE DEVELOPMENT	-	-	-	-	-	-	-	-	-
3	BUILDINGS	9,651,639.16	-	-	9,651,639.16	51,937.90	-	7,158,619.86	2,493,019.30	2,544,957.20
4	ROADS AND BRIDGES	-	-	-	-	-	-	-	-	-
5	TUBEWELLS AND WATER SUPPLY	-	-	-	-	-	-	-	-	-
6	SEWERAGE AND DRAINAGE	-	-	-	-	-	-	-	-	-
7	ELECTRICAL INSTALLATION AND EQUIPMENT	-	-	-	-	-	-	-	-	-
8	PLANT AND MACHINERY	34,587,972.28	-	-	34,587,972.28	126,755.61	-	32,306,371.25	2,281,601.03	2,408,356.64
9	SCIENTIFIC AND LABORATORY EQUIPMENT	-	-	-	-	-	-	-	-	-
10	OFFICE EQUIPMENT	-	-	-	-	-	-	-	-	-
11	AUDIO VISUAL EQUIPMENT	-	-	-	-	-	-	-	-	-
12	COMPUTERS AND PERIPHERALS	11,042,717.60	-	-	11,042,717.60	15.04	-	11,042,672.48	45.12	60.16
13	FURNITURE, FIXTURES AND FITTINGS	1,276,335.00	-	-	1,276,335.00	19,359.00	-	1,056,933.00	219,402.00	238,761.00
14	VEHICLES	313,254.00	-	-	313,254.00	2,971.77	-	289,479.84	23,774.16	26,745.93
15	LIB BOOKS AND SCIENTIFIC JOURNALS	-	-	-	-	-	-	-	-	-
16	SMALL VALUE ASSETS	-	-	-	-	-	-	-	-	-
	Total (A)	56,871,918.04	-	-	56,871,918.04	201,039.32	-	51,854,076.43	5,017,841.61	5,218,880.93
17	CAPITAL WORK IN PROGRESS	-	-	-	-	-	-	-	-	-
	Total (B)	-	-	-	-	-	-	-	-	-
18	COMPUTER SOFTWARE	-	-	-	-	-	-	-	-	-
19	E-JOURNALS	-	-	-	-	-	-	-	-	-
20	PATENTS AND COPYRIGHTS	-	-	-	-	-	-	-	-	-
	Total (C)	-	-	-	-	-	-	-	-	-
	Grand Total (A+B+C)	56,871,918.04	-	-	56,871,918.04	201,039.32	-	51,854,076.43	5,017,841.61	5,218,880.93

Anshu Hooda
Assistant Registrar

Anshu Hooda
Registrar



SCHEDULE-4 A PLAN - IMPACT COMPUTER SSS STREAM

Amount in ₹

S. No	Assets Heads	Gross Block				Depreciation for the year			Net Block		
		Opening Balance 01-04-2016	Additions	Deductions	Closing Balance	Depreciation Opening Balance	Depreciation for the Year	Deductions / Adjustments	Total Depreciation	31-03-2016	31-03-2015
1	LAND	-	-	-	-	-	-	-	-	-	-
2	SITE DEVELOPMENT	-	-	-	-	-	-	-	-	-	-
3	BUILDINGS	-	-	-	-	-	-	-	-	-	-
4	ROADS AND BRIDGES	-	-	-	-	-	-	-	-	-	-
5	TUBEWELLS AND WATER SUPPLY	-	-	-	-	-	-	-	-	-	-
6	SEWERAGE AND DRAINAGE	-	-	-	-	-	-	-	-	-	-
7	ELECTRICAL INSTALLATION AND EQUIPMENT	-	-	-	-	-	-	-	-	-	-
8	PLANT AND MACHINERY	360,610.00	-	-	360,610.00	332,137.55	1,498.55	-	333,636.10	26,973.90	28,472.45
9	SCIENTIFIC AND LABORATORY EQUIPMENT	-	-	-	-	-	-	-	-	-	-
10	OFFICE EQUIPMENT	-	-	-	-	-	-	-	-	-	-
11	AUDIO VISUAL EQUIPMENT	-	-	-	-	-	-	-	-	-	-
12	COMPUTERS AND PERIPHERALS	696,246.00	-	-	696,246.00	696,242.16	0.96	-	696,243.12	2.88	3.84
13	FURNITURE, FIXTURES AND FITTINGS	51,342.00	-	-	51,342.00	40,707.65	862.25	-	41,569.90	9,772.10	10,634.35
14	VEHICLES	-	-	-	-	-	-	-	-	-	-
15	LIB BOOKS AND SCIENTIFIC JOURNALS	-	-	-	-	-	-	-	-	-	-
16	SMALL VALUE ASSETS	-	-	-	-	-	-	-	-	-	-
	Total (A)	1,108,198.00	-	-	1,108,198.00	1,069,087.36	2,361.76	-	1,071,449.12	36,748.88	39,110.64
17	CAPITAL WORK IN PROGRESS	-	-	-	-	-	-	-	-	-	-
	Total (B)	-	-	-	-	-	-	-	-	-	-
18	COMPUTER SOFTWARE	-	-	-	-	-	-	-	-	-	-
19	E-JOURNALS	-	-	-	-	-	-	-	-	-	-
20	PATENTS AND COPYRIGHTS	-	-	-	-	-	-	-	-	-	-
	Total (C)	-	-	-	-	-	-	-	-	-	-
	Grand Total (A+B+C)	1,108,198.00	-	-	1,108,198.00	1,069,087.36	2,361.76	-	1,071,449.12	36,748.88	39,110.64

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Assistant Registrar



SCHEDULE- 4 A PLAN - IMPACT ELECTRONICS SSS STREAM

S. No	Assets Heads	Gross Block				Depreciation for the year				Amount in ₹		
		Opening Balance 01-04-2016	Additions	Deductions	Closing Balance	Depreciation for the Year	Deductions/ Adjustments	Total Depreciation	31-03-2016	31-03-2015	Net Block	
1	LAND	-	-	-	-	-	-	-	-	-	-	-
2	SITE DEVELOPMENT	-	-	-	-	-	-	-	-	-	-	-
3	BUILDINGS	-	-	-	-	-	-	-	-	-	-	-
4	ROADS AND BRIDGES	-	-	-	-	-	-	-	-	-	-	-
5	TUBEWELLS AND WATER SUPPLY	-	-	-	-	-	-	-	-	-	-	-
6	SEWERAGE AND DRAINAGE	-	-	-	-	-	-	-	-	-	-	-
7	ELECTRICAL INSTALLATION AND EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-
8	PLANT AND MACHINERY	-	-	-	-	-	-	-	-	-	-	-
9	SCIENTIFIC AND LABORATORY EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-
10	OFFICE EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-
11	AUDIO VISUAL EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-
12	COMPUTERS AND PERIPHERALS	1,581,067.52	-	-	1,581,067.52	-	-	2.16	1,581,061.04	6.48	8.64	8.64
13	FURNITURE, FIXTURES AND FITTINGS	12,592.00	-	-	12,592.00	-	-	192.17	10,414.04	2,177.96	2,370.13	2,370.13
14	VEHICLES	-	-	-	-	-	-	-	-	-	-	-
15	LIB BOOKS AND SCIENTIFIC JOURNALS	-	-	-	-	-	-	-	-	-	-	-
16	SMALL VALUE ASSETS	-	-	-	-	-	-	-	-	-	-	-
	Total (A)	1,593,659.52	-	-	1,593,659.52	-	-	194.33	1,591,475.08	2,184.44	2,378.77	2,378.77
17	CAPITAL WORK IN PROGRESS	-	-	-	-	-	-	-	-	-	-	-
	Total (B)	-	-	-	-	-	-	-	-	-	-	-
18	COMPUTER SOFTWARE	-	-	-	-	-	-	-	-	-	-	-
19	E-JOURNALS	-	-	-	-	-	-	-	-	-	-	-
20	PATENTS AND COPYRIGHTS	-	-	-	-	-	-	-	-	-	-	-
	Total (C)	-	-	-	-	-	-	-	-	-	-	-
	Grand Total (A+B+C)	1,593,659.52	-	-	1,593,659.52	-	-	194.33	1,591,475.08	2,184.44	2,378.77	2,378.77

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SCHEDULE- 4 A PLAN - CBERD

Amount in ₹

S. No	Assets Heads	Gross Block				Depreciation for the year			Net Block	
		Opening Balance 01-04-2016	Additions	Deductions	Closing Balance	Depreciation Opening Balance	Depreciation for the Year	Deductions / Adjustments	31-03-2016	31-03-2015
1	LAND	-	-	-	-	-	-	-	-	-
2	SITE DEVELOPMENT	-	-	-	-	-	-	-	-	-
3	BUILDINGS	-	-	-	-	-	-	-	-	-
4	ROADS AND BRIDGES	-	-	-	-	-	-	-	-	-
5	TUBEWELLS AND WATER SUPPLY	-	-	-	-	-	-	-	-	-
6	SEWERAGE AND DRAINAGE	-	-	-	-	-	-	-	-	-
7	ELECTRICAL INSTALLATION AND EQUIPMENT	-	-	-	-	-	-	-	-	-
8	PLANT AND MACHINERY	-	-	-	-	-	-	-	-	-
9	SCIENTIFIC AND LABORATORY EQUIPMENT	-	-	-	-	-	-	-	-	-
10	OFFICE EQUIPMENT	9,140,007.75	4,642,175.05	-	13,782,182.80	1,217,065.24	628,255.88	-	11,936,861.68	7,922,942.51
11	AUDIO VISUAL EQUIPMENT	-	-	-	-	-	-	-	-	-
12	COMPUTERS AND PERIPHERALS	107,100.00	144,402.00	-	251,502.00	64,260.00	74,896.80	-	112,345.20	42,840.00
13	FURNITURE, FIXTURES AND FITTINGS	-	-	-	-	-	-	-	-	-
14	VEHICLES	-	-	-	-	-	-	-	-	-
15	LIB BOOKS AND SCIENTIFIC JOURNALS	-	-	-	-	-	-	-	-	-
16	SMALL VALUE ASSETS	-	-	-	-	-	-	-	-	-
	Total (A)	9,247,107.75	4,786,577.05	-	14,033,684.80	1,281,325.24	703,152.68	-	12,049,206.88	7,965,782.51
17	CAPITAL WORK IN PROGRESS	-	-	-	-	-	-	-	-	-
	Total (B)	-	-	-	-	-	-	-	-	-
18	COMPUTER SOFTWARE	-	-	-	-	-	-	-	-	-
19	E-JOURNALS	-	-	-	-	-	-	-	-	-
20	PATENTS AND COPYRIGHTS	-	-	-	-	-	-	-	-	-
	Total (C)	-	-	-	-	-	-	-	-	-
	Grand Total (A+B+C)	9,247,107.75	4,786,577.05	-	14,033,684.80	1,281,325.24	703,152.68	-	12,049,206.88	7,965,782.51

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SCHEDULE-5 INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS

Amount in ₹

Particulars	Current Year	Previous Year
IN CENTRAL GOVERNMENT SECURITIES	-	-
DEBENTURES AND BONDS	-	-
IN STATE GOVERNMENT SECURITIES	-	-
OTHER APPROVED SECURITIES	-	-
SHARES	-	-
TERM DEPOSIT WITH BANKS	276,339,743.00	193,890,693.87
OTHER TO BE SPECIFY	-	-
Total	276,339,743.00	193,890,693.87

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Assistant Registrar

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**SCHEDULE-5(A) INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS**

Amount in ₹

Particulars	Current Year	Previous Year
Term Deposit With Banks		
FDR CANARA BANK STUDENT FUND	-	-
FDR CORPUS FUND CANARA BANK	-	148,859,178.33
FDR CORPUS FUND WITH ICICI BANK	161,838,274.00	-
FDR OF REGISTRAR CORPUS FUND WITH SBI BANK	38,305,689.00	-
FDR OF REGISTRAR STAFF DEVELOPMENT FUND WITH SBI	25,284,899.00	-
FDR R AND D FUND WITH ICICI BANK	-	9,040,129.00
FDR STUDENT FUND WITH YES BANK	-	35,981,191.54
FDR SWF WITH ICICI BANK	-	-
DEPOSIT WITH PD ACCOUNT NO.15 (PENSION)	11,082.00	10,195.00
FDR (TEQIP)	50,899,799.00	-
Total	276,339,743.00	193,890,693.87

Note

1. The Total in this sub schedule will agree with the total in Schedule 5.

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SCHEDULE-6 INVESTMENTS - OTHERS

Amount in ₹

Particulars	Current Year	Previous Year
IN CENTRAL GOVERNMENT SECURITIES	-	-
IN STATE GOVERNMENT SECURITIES	-	-
OTHER APPROVED SECURITIES	-	-
SHARES	-	-
DEBENTURES AND BONDS	-	-
OTHERS	-	-
Total	-	-

B. K. Bhatnagar
Assistant Registrar

A. K. Singh
Registrar

**SCHEDULE-7 CURRENT ASSETS**

Particulars	Amount in ₹	
	Current Year	Previous Year
1. STOCK		
a) STORES AND SPARES	-	-
b) LOOSE TOOLS	-	-
c) PUBLICATIONS	-	-
d) LABORATORY CHEMICALS CONSUMABLES AND GLASS WARE	-	-
e) BUILDING MATERIAL	-	-
f) ELECTRICAL MATERIAL	-	-
g) STATIONERY	-	-
h) WATER SUPPLY MATERIAL	-	-
2. SUNDRY DEBTORS		
a) DEBTS OUTSTANDING FOR A PERIOD EXCEEDING SIX MONTHS	-	-
b) OTHERS	-	-
3. CASH AND BANK BALANCES		
CASH ACCOUNT	11,837,768.08	13,993,025.50
POSTAGE	3,632.00	3,632.00
UNESCO COUPONS	558.03	558.03
UNIVERSITY FORMS(STOCK)	13,125.00	13,125.00
a) WITH SCHEDULED BANKS		
IN CURRENT ACCOUNTS	38,787,441.93	34,203,082.88
IN TERM DEPOSIT ACCOUNTS	209,986,895.05	178,850,108.52
IN SAVINGS ACCOUNTS	253,535,182.71	369,781,596.57
b) WITH NON - SCHEDULED BANKS		
IN TERM DEPOSIT ACCOUNTS	-	-
IN SAVINGS ACCOUNTS	-	-
4. POST OFFICE-SAVING ACCOUNTS		
	-	-
Total	514,164,602.80	596,845,128.50

Note

1. Annexure A shows the details of Bank Accounts.

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ANNEXURE A

Amount in ₹

Particulars	Current Year	Previous Year
CASH ACCOUNT		
CASH ACCOUNT	247,573.00	104,853.00
CASH BALANCE GUEST HOUSE	208,196.00	184,129.00
CASH BALANCE CBERD	11,381,999.08	13,704,043.50
Total	11,837,768.08	13,993,025.50
POSTAGE		
POSTAGE	3,632.00	3,632.00
Total	3,632.00	3,632.00
UNESCO COUPONS		
UNESCO COUPONS	558.03	558.03
Total	558.03	558.03
UNIVERSITY FORMS(STOCK)		
UNIVERSITY FORMS (STOCK)	13,125.00	13,125.00
Total	13,125.00	13,125.00
IN CURRENT ACCOUNTS		
ICICI CA-0011	38,787,441.93	34,203,082.88
Total	38,787,441.93	34,203,082.88
IN TERM DEPOSIT ACCOUNTS		
FDR SCHOLARSHIP WITH YES BANK	150,000.00	150,000.00
S.K. GUPTA AWARD		
FDR WITH ICICI	-	59,713,379.00
FDR WITH SBBJ RKS SANKUL JAIPUR	1,209,450.00	1,311,600.00
SWAMI SHIVANAAM MEMORIAL SCHOLARSHIP		
FIXED DEPOSIT RECEIPTS FROM FIRMS	35,000.00	35,000.00
ICC WITH YES BANK	53,258,756.85	57,798,016.61
CMSIC WITH YES BANK	5,600,272.69	5,375,705.53
FDR R AND C WITH YES BANK	133,348,354.92	39,137,634.38
FDR CBERD WITH SBI	16,385,060.59	15,328,773.00
Total	209,986,895.05	178,850,108.52



Amount in ₹

Particulars	Current Year	Previous Year
IN SAVINGS ACCOUNTS		
ICICI SB-105615	53,331,032.31	108,277,507.74
ICICI-20586	9,858,985.59	8,967,964.59
OBC SB-22670	1,476,229.00	-374,180.00
SBBJ - PD15	78,211.00	71,951.00
SBI 10125472413	278,823.94	267,996.94
SBI-CORPUS FUND SB-36164	231,715.00	35,122,200.00
SBI-MNIT SB-81946	12,851,510.09	12,983,064.52
SBI-STAFF DEVALOPMENT SB-67320	154,477.00	23,414,800.00
YES BANK SB-355	90,314,092.29	75,788,795.48
OBC 12351	29.30	29.30
SAVING BANK ACCOUNT ME PART	250,889.00	220,381.00
CMSIC SAVING BANK ACCOUNT	11,249.68	10,707.68
TEQIP		
SAVING BANK ACCOUNT WITH SBBJ	271,326.00	171,306.00
SAVING BANK ACCOUNT WITH ICICI	5,631,278.32	42,380,846.32
R AND C		
SAVING BANK ACCOUNT WITH ICICI	67,087,801.43	22,075,673.73
GUEST HOUSE		
SAVING BANK ACCOUNT	6,063,643.00	2,489,067.00
CONSULTANCY		
SAVING BANK ACCOUNT	5,223,451.93	37,509,852.44
U K INDIA		
SAVING BANK ACCOUNT	320,555.35	305,099.35
IMPACT COMPUTER SSS		
STREAM PROJECT		
SAVING BANK ACCOUNT	69,381.00	68,032.00
IMPACT ELECTRONIC SSS		
STREAM PROJECT		
SAVING BANK ACCOUNT	30,501.48	30,501.48
Total	253,535,182.71	369,781,596.57
Grand Total	514,164,602.80	596,845,128.50

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SCHEDULE-8 LOANS ADVANCES & DEPOSITS

Amount in ₹

Particulars	Current Year	Previous Year
1. ADVANCES TO EMPLOYEES (NON INTEREST BEARING)		
SALARY	5,000.00	5,000.00
FESTIVAL	-	-
MEDICAL ADVANCE	-	-
ADVANCE TO STAFF	6,200,104.00	6,012,666.00
LTC ADVANCE	2,158,638.00	1,015,805.00
PERMANENT ADVANCE	416,425.00	458,568.00
TEQIP	614,600.00	572,980.00
R AND C	266,504.00	1,398,214.00
GUEST HOUSE	1,814,296.00	1,091,537.00
ME PART TIME	12,895.00	12,895.00
CONSULTANCY	209,589.00	325,251.00
CBERD	15,000.00	40,000.00
2. LONG TERM ADVANCES TO EMPLOYEES (INTEREST BEARING)		
FOOD GRAIN LOAN BANK	9,543.00	660.00
VEHICLE LOAN	-	-
HOME LOAN	-	-
3. ADVANCES AND OTHER AMOUNTS RECOVERABLE IN CASH OR IN KIND OR FOR VALUE TO BE RECEIVED		
(a) ON CAPITAL ACCOUNT		
ADVANCE TO AVAS VIKAS LTD.	18,650,367.00	142,200,000.00
ADVANCE TO AVAS VIKAS SANSTHAN	1,162,448.00	-122,387,185.00
ADVANCE TO CPWD	33,573,147.00	648,874.00
ADVANCE TO M/S KMV PROJECT LTD., HYDERABAD	15,570,840.00	30,403,107.00
ADVANCE TO PHED	75,200,000.00	-
EX. ENGG. PWD	1,467,467.68	1,467,467.68
(b) TO SUPPLIERS		
ADVANCE TO M/S GLOBAL PRESENTATION, JAIPUR	4,045,148.00	10,284,135.00
ADVANCE TO CEG TEST HOUSE AND RESEARCH CENTRE PVT	50,000.00	50,000.00
ADVANCE TO FIRM	3,038,165.00	3,038,165.00
ADVANCE TO INTERNAL INDUSTRIAL GASES LTD HAWRAH	73,853.00	73,853.00
ADVANCE TO M/S FRANCIS KLEIN AND CO.PVT.LTD	304,026.00	-
ADVANCE TO M/S KAMLESH OVERSEAR PVT LTD	-	-
ADVANCE TO M/S NATURAL INFORMATICS CENTRE SERVICE.	-	26,975,006.00
ADVANCE TO M/S R K FRIGHT SYSTEM	806,079.00	2,094,579.00
ADVANCE TO M/S S S ENGINEERS CORPORATION	-	-
ADVANCE TO M/S SYNCOTTS INTERNATIONAL NEW DELHI	-	-
ADVANCE TO MRF	6,280.00	6,280.00
ADVANCE TO RENEWABLE ENERGY CHAIR	154,800.00	154,800.00
ADVANCE TO VARDHMAN FAB TECH JAIPUR	-8,679.00	53,097.00
(c) OTHERS		
ADVANCE FOR LAB. WORK	34,000.00	34,000.00
ADVANCE TO GROUND WATER BOARD	79,858.00	79,858.00



Amount in ₹

Particulars	Current Year	Previous Year
ADVANCE TO IIIT KOTA	-	-
ADVANCE TO M/S RAJASTHAN ELECTRONIC AND INSTRUMENT	-	-
ADVANCE TO R and C	102,000.00	143,224.00
ADVANCE TO SHRI O.P. SINGHAL, ADVOCATE	10,000.00	10,000.00
ADVANCE TO STORES OFFICER	755,647.17	755,647.17
ADVANCE TO TEQIP	138,731.00	138,731.00
AIEEE COUNSELLING EXPENCESS	12,130.00	12,130.00
ASI (DEPOSIT HEAD)	4,796.00	3,086.00
CENTRE OF ENERGY AND ENVIRONMENT	302,119.00	293,869.00
ITTC	500.00	500.00
LOAN TO PF TRUST	-	-
MBA COURSE	17,296.00	17,296.00
MNIT PENSION FUND	30,811.00	30,811.00
PAYABLE TO CBERD	-	-13,162,000.00
RECEIVABLE FROM MESS COUNCIL	25,797,500.00	-
RECOVERABLE FROM CCMT-2014	-20,000.00	-20,000.00
TDS / INCOME TAX (SAL) DEPOSIT HEAD)	7,422,837.78	7,422,837.78
TEQIP	188,866.00	160,366.00
R AND C	-	914,292.00
CONSULTANCY (RECEIVABLE FROM MNIT)	50,000,000.00	-
CONSULTANCY	8,127.25	1,528.00
UK INDIA	1,078,615.00	1,078,615.00
IMPACT COMPUTER SSS STREAM	116,687.00	116,687.00
IMPACT ELECTRONIC SSS STREAM	61,333.00	61,333.00
4. PREPAID EXPENSES		
(A) INSURANCE	-	-
(B) OTHER EXPENSES		
PREPAID EXPENSES	1,980,452.00	4,139,207.00
5. DEPOSITS		
AJIT SERIVCE STATION (PETROL PUMP)	15,000.00	15,000.00
CHANDRA INDUSTRIES	150.00	150.00
INDIAN OXYGEN LTD.	4,000.00	4,000.00
JAIPUR GAS SERVICE	6,700.00	6,700.00
JAIPUR ROTTING COMPANY	10,000.00	10,000.00
JVVN LIMITED, JAIPUR	868,731.00	868,731.00
KRISHANA AND COMPANY	200.00	200.00
M/S SANGHI OXYGEN COMPANY	1,800.00	1,800.00
MAHALAXMI GAS SERVICE	25,200.00	25,200.00
NIT DELHI DEPOSIT	528,309.00	528,309.00
OM GAS AGENCY	6,750.00	6,750.00
RSEB	1,139,697.00	1,139,697.00
SECURITY DEPOSIT TO BSNL	100,680.00	100,680.00
TELEPHONE DEPARTMENT	17,500.00	17,500.00
6. INCOME ACCRUED		
RECOVERABLE FROM CCMN	-79,600.00	-

Amount in ₹

Particulars	Current Year	Previous Year
RECOVERABLE FROM CCMT	-500,200.00	-
RECOVERABLE FROM CSAB	2,173,000.00	-
RECOVERABLE FROM DASA	289,715.42	-
RECOVERABLE FROM ICCR	121,423.95	-
ON INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS	-	-
ON INVESTMENTS OTHERS	-	-
ON LOANS AND ADVANCES	-	-
ACCRUED INTEREST CMSIC	253,519.05	-
OTHERS	-	-
7. OTHER CURRENT ASSETS RECEIVABLE FROM UGC / SPONSORED PROJECTS		
DEBIT BALANCES IN SPONSORED PROJECTS(STAFF DEVELOPMENT PROGRAMME) DR. VINEET SAHULA	35,440.00	35,440.00
DEBIT BALANCES IN SPONSORED PROJECTS(UK INDIA REC PROJECT)	-	-
DEBIT BALANCES IN SPONSORED FELLOWSHIPS AND SCHOLARSHIPS	-	-
ADVANCE APPLICATION BALANCE ON POWER ELECTRONIC ALTERNATE AUTOMOBILE FUELS	281,877.00	281,877.00
APPLIED ECONOMICS AND QUANTITAVE TECH	207,760.00	207,760.00
DEVELOPING TEACHING SKILLS IN MANAGEMENT COURSE	235,190.00	235,190.00
EMERGING TOOLS AND TRENDS IN OPEN SOURCE COMPUTING	382,809.00	382,809.00
MANAGEMENT AND MITIGAATION OF NATURAL DISATATERS	242,856.00	242,856.00
OPERATION CONTROL OF MORDEN POWER SYSTEM	382,246.00	382,246.00
RECENT ADVANCE IN MICROWAVE AND WIRELESS COMMUN.	294,506.00	294,506.00
WINTER SCHOOL SOFT COMPUTER SKILL IN ENG	409,340.00	409,340.00
INDACON 2013	333,103.00	333,103.00
AASP 2013	2,400.00	2,400.00
KVPY PROJECT	2,000.00	2,000.00
NSS	172.00	172.00
CSAB 2014	44.00	44.00
DST FELLOWSHIP (PARUL GUPTA)	86,027.00	86,027.00
BLITZSCHLAG-14	11,528.00	11,528.00
GRANT RECEVIABLE FROM GOVT. OF INDIA	145,279.00	145,279.00
GRANT RECEIVABLE FROM MINISTRY OF STEEL	-	420,000,000.00
UK INDIA	600,000.00	600,000.00
08. CLAIMS RECEIVABLE	3,859,378.95	3,859,378.95
Grand Total	266,433,373.25	538,464,445.58

Note

If revolving funds have been created for House Building, Computer and Vehicle advances to employees, the advances will appear as part of Earmarked/ endowment Funds. The balance against these interest-bearing advances will not appear in this schedule.


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**SCHEDULE-9 ACADEMIC RECEIPTS**

Amount in ₹

Particulars	Current Year	Previous Year
ACADEMIC		
ADMISSION PROCESSING FEE	13,144,570.49	8,117,000.00
FEE RECEIVED	-	-
INSTITUTE FEE (INCOME)	224,696,352.25	187,521,922.79
Total	237,840,922.74	195,638,922.79
09.02 EXAMINATIONS		
Total	-	-
09.03 OTHER FEES		
Total	-	-
09.04 SALE OF PUBLICATIONS		
SALE OF APPLICATION FORMS FOR ADMISSION TO M.TECH.	-	863,850.00
Total	-	863,850.00
09.05 OTHER ACADEMIC RECEIPTS		
Total	-	-
Grand Total	237,840,922.74	196,502,772.79

Note

In case fees like entrance fee, subscriptions etc are material and are in the nature of capital receipts, such amount should be recognized to the Capital Fund. Otherwise such fees will be appropriately incorporated in this schedule.

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SCHEDULE 10 - GRANTS / SUBSIDIES (IRREVOCABLE GRANTS RECEIVED)

Particulars	Amount in ₹										
	PLAN GOVT. OF INDIA	NON PLAN GRANT	PHE GRANT	QIP POLY GRANT	NON PLAN RECURRING GOVT. OF RAJASTHAN	PLAN RECURRING GOVT. OF RAJASTHAN	PLAN GRANT GOVT. OF RAJASTHAN	NODAL CENTER GRANT	PLAN GRANT FOR BARRIER FREE ENVY SIPDA	Current Year	Previous Year
Balance B/F	-214,473,933	4,869,098	-10,687,130	-4,788,973	-4,726,421	-12,681	-350,000	-3,836,762	-	-234,006,802	64,328,288
Add: Receipts during the Year	720,000,000	340,000,000	676,000	-	-	-	-	-	17,380,858	1,078,056,858	1,320,000,000
Add: Income	-	-	-	-	-	-	-	-	-	-	-
Total	505,526,067	344,869,098	-10,011,130	-4,788,973	-4,726,421	-12,681	-350,000	-3,836,762	17,380,858	844,050,056	1,384,328,288
Less: Refund	-	-	-	-	-	-	-	-	-	-	-
Balance	505,526,067	344,869,098	-10,011,130	-4,788,973	-4,726,421	-12,681	-350,000	-3,836,762	17,380,858	844,050,056	1,384,328,288
Utilized for Capital Expenditure (A)	948,911,010	-	-	-	-	-	-	-	-	948,911,010	1,189,921,912
Balance	-443,384,944	344,869,098	-10,011,130	-4,788,973	-4,726,421	-12,681	-350,000	-3,836,762	17,380,858	-104,860,954	194,406,376
Utilized for Revenue Expenditure (B)	145,764,857	418,402,314	2,282,886	53,129	-	-	-	765,216	-	567,268,382	428,413,178
Balance C/F	-589,149,781	-73,533,216	-12,294,016	-4,842,102	-4,726,421	-12,681	-350,000	-4,601,978	17,380,858	-672,129,336	-234,006,802

A - Appears as addition to Capital Fund as well as additions to Fixed Assets during the year.

B - Appears as income in the Income & Expenditure Account.

C - (I) Appears under Current Liabilities in the Balance Sheet and will become the opening balance next year.

(II) Represented by Bank balances, Investments and Advances on the assets side.


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SCHEDULE 11 - INCOME FROM INVESTMENTS

Particulars	Amount in ₹			
	Earmarked / Endowment Funds		Other Investments	
	Current Year	Previous Year	Current Year	Previous Year
1. Interest				
a. On Government Securities	-	-	-	-
b. Other Bonds/Debentures	-	-	-	-
2. Interest on Term Deposits	-	-	-	-
3. Income accrued but not due on Term Deposits/Interest bearing advances to employees	-	-	-	-
4. Interest on Savings Bank Accounts	-	-	-	-
5. Others (Specify)	-	-	-	-
Total	-	-	-	-
Transferred to Earmarked/Endowment Funds	-	-	-	-
Balance	-	-	-	-

Note:

Interest accrued but not due on Term Deposits from HBA fund, conveyance advance fund and Computer Advance fund and on interest bearing advances to employees will be included here (Item 3), only where Revolving funds (EMF) for such advances have been set up.

Prakash Chandra

Assistant Registrar

Prakash Chandra

Registrar



SCHEDULE 12 - INTEREST EARNED

Amount in `

Particulars	Current Year	Previous Year
1. ON SAVING ACCOUNTS WITH SCHEDULED BANKS		
MNIT INTEREST A/C (INCOME)	29,438,018.82	23,102,328.92
CMSIC	478,628.21	458,193.71
STUDENT FUND	-	-
ICC	12,796,729.06	7,494,677.81
ME PART TIME	30,508.00	15,158.00
UK INDIA REC PROJECT	15,456.00	11,879.00
IMPACT COMPUTER	1,349.00	2,649.00
IMPACT ELECTRONIC	-	895.00
2. ON LOANS		
(a) EMPLOYEES / STAFF	-	-
(b) OTHERS	-	-
3. ON DEBTORS AND OTHER RECEIVABLES	-	-
Total	42,760,689.09	31,085,781.44

Note

1. The amount against item 1, in respect of Bank Accounts of Earmarked / Endowment Funds is dealt with in Schedule 11 (First Part) and Schedule 2.
2. Item 2(a) is applicable only if Revolving Funds have not been constituted for such advances.

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**SCHEDULE 13 -Other Income**

Items of material amounts included in Miscellaneous Income should be separately disclosed.

Particulars	Amount in ₹	
	Current Year	Previous Year
A. INCOME FROM LAND AND BUILDINGS		
GUEST HOUSE A/C	-	8,694.00
HOSTEL ROOM RENT (INCOME)	21,248,500.00	26,717,400.00
LIGHT AND WATER CHARGES (INCOME)	30,603,438.00	38,726,161.00
QUARTER RENT(INCOME)	1,236,343.00	940,769.00
RENT OF BUILDING (INCOME)	52,910.00	35,890.00
WATER CHARGES (INCOME)	204,951.00	190,432.00
Total	53,346,142.00	66,619,346.00
B. SALE OF INSTITUTES PUBLICATIONS		
Total	-	-
C. INCOME FROM HOLDING EVENTS		
Total	-	-
D. OTHERS		
FINE FOR LATE FEES	118,000.00	-
INTEREST ON MOBILIZATION ADVANCE	1,218,277.00	1,904,019.00
MISC. INCOME (INCOME)	970,278.71	3,309,813.83
RECRUITMENT FEES	-	675,300.00
SALE OF PENSION SET	220.00	240.00
Total	2,306,775.71	5,889,372.83
Grand Total	55,652,917.71	72,508,718.83


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SCHEDULE-14 PRIOR PERIOD INCOME

Amount in ₹

Particular	Current Year	Previous Year
Academic Receipts	-	-
Income from Investments	-	-
Interest earned	-	-
Other Income	924,562.00	-
Total	924,562.00	-

B. K. Bhatnagar

Assistant Registrar

A. K. Bhatnagar

Registrar



SCHEDULE-15 STAFF PAYMENTS & BENEFITS (ESTABLISHMENT EXPENSES)

These shall be classified separately for teaching and non-teaching staff; adhoc staff, o Arrears of DA, Salary arrears due to increment

Amount in ₹

Particular	Current Year			Previous Year		
	Plan	Non Plan	Total	Plan	Non Plan	Total
BONUS (NON TEACHING STAFF)	-	877,120.00	877,120.00	-	718,140.00	718,140.00
CHILDREN EDUCATION ALLOWANCE	-	5,081,314.00	5,081,314.00	-	4,755,515.00	4,755,515.00
COMMUTATION OF PENSION	-	3,189,150.00	3,189,150.00	-	3,720,708.00	3,720,708.00
CPDA (CONTINGENCY)	-	5,307,259.35	5,307,259.35	-	3,367,850.00	3,367,850.00
CPDA (NON CONTINGENCY)	-	-	-	-	132,622.00	132,622.00
DEARNESS ALLOWANCE (M. TECH. PHE/ENVIO.ENGG.)	-	1,064,643.00	1,064,643.00	-	925,893.00	925,893.00
DEARNESS ALLOWANCE (NODAL CENTRE)	-	355,632.00	355,632.00	-	305,842.00	305,842.00
DEARNESS ALLOWANCE (NON TEACHING STAFF)	-	56,998,709.00	56,998,709.00	-	47,889,230.00	47,889,230.00
DEARNESS ALLOWANCE (TEACHING STAFF)	-	130,125,050.00	130,125,050.00	-	106,783,556.00	106,783,556.00
DEARNESS PAY (NON TEACHING STAFF)	-	-	-	-	616.00	616.00
DEPUTATION ALLOWANCE	-	51,678.00	51,678.00	-	92,335.00	92,335.00
EARNED LEAVE ENCASHMENT FOR LTC	-	695,879.00	695,879.00	-	1,190,094.00	1,190,094.00
ENCASHMENT OF LEAVE ON RETIREMENT	-	35,761,067.00	35,761,067.00	-	21,846,068.00	21,846,068.00
FWA	-	69,600.00	69,600.00	-	69,600.00	69,600.00
FWA (NT)	-	5,400.00	5,400.00	-	3,600.00	3,600.00
GRADE PAY (M. TECH. PHE/ENVIO.	-	120,000.00	120,000.00	-	120,000.00	120,000.00
GRADE PAY (NODAL CENTRE)	-	55,200.00	55,200.00	-	55,200.00	55,200.00
GRADE PAY (NON-TEACHING)	-	10,623,554.00	10,623,554.00	-	10,303,796.00	10,303,796.00
GRADE PAY (TEACHING)	-	18,618,795.00	18,618,795.00	-	19,416,099.00	19,416,099.00
GRATUITY	-	109,011,721.00	109,011,721.00	-	16,052,850.00	16,052,850.00
GUEST FACULTY	-	16,351,172.00	16,351,172.00	-	15,458,187.00	15,458,187.00
HONORARIUM FOR RECRUITMENT OF NON TEACHING STAFF	-	-	-	-	8,300.00	8,300.00
HOUSE RENT ALLOWANCE (NODAL CENTRE)	-	60,516.00	60,516.00	-	58,752.00	58,752.00
HOUSE RENT ALLOWANCE (NON TEACHING STAFF)	-	6,215,887.00	6,215,887.00	-	5,455,149.00	5,455,149.00
HOUSE RENT ALLOWANCE (TEACHING STAFF)	-	9,644,054.00	9,644,054.00	-	8,717,867.00	8,717,867.00
LEAVE SALARY CONTRIBUTION	-	243,970.00	243,970.00	-	372,118.00	372,118.00



LTC	-	4,342,113.00	4,342,113.00	-	4,610,717.00	4,610,717.00
MEDICAL ALLOWANCE TO PENSIONERS	-	2,419,488.00	2,419,488.00	-	1,253,904.00	1,253,904.00
MEDICAL REIMBURSEMENT	-	6,952,494.00	6,952,494.00	-	6,288,916.00	6,288,916.00
NON PRACTICE ALLOWANCE	-	216,785.00	216,785.00	-	55,105.00	55,105.00
OTHER ALLOWANCE (NON TEACHING STAFF)	-	45,720.00	45,720.00	-	44,170.00	44,170.00
OVERTIME ALLOWANCE (NON-TEACHING)	-	21,797.00	21,797.00	-	35,234.00	35,234.00
PAY OF ESTABLISHMENT (CONTRACTUAL)	-	74,475,546.00	74,475,546.00	-	60,911,511.00	60,911,511.00
PAY OF ESTABLISHMENT (NON TEACHING STAFF)	-	34,158,785.00	34,158,785.00	-	35,304,456.00	35,304,456.00
PAY OF ESTT. (NODAL CENTRE)	-	247,380.00	247,380.00	-	238,560.00	238,560.00
PAY OF OFFICERS (M. TECH. PHE/ENVIO.ENGG.)	-	785,820.00	785,820.00	-	759,390.00	759,390.00
PAY OF OFFICERS (NON TEACHING STAFF)	-	7,768,438.00	7,768,438.00	-	8,076,672.00	8,076,672.00
PAY OF OFFICERS (TEACHING STAFF)	-	94,266,179.00	94,266,179.00	-	88,098,498.00	88,098,498.00
PENSION (DEPUTATION) CONTRIBUTION	-	223,649.00	223,649.00	-	450,633.00	450,633.00
PENSION (EXPENDITURE)	-	90,856,265.00	90,856,265.00	-	82,630,330.00	82,630,330.00
PENSION (NON-TEACHING) CONTRIBUTION	-	4,277,228.00	4,277,228.00	-	2,759,545.00	2,759,545.00
PENSION (TEACHING) CONTRIBUTION	-	5,017,035.00	5,017,035.00	-	3,405,125.00	3,405,125.00
SPECIAL ALLOWANCE (TEACHING)	-	60,000.00	60,000.00	-	40,000.00	40,000.00
SPECIAL PAY (TEACHING STAFF)	-	2,600.00	2,600.00	-	15,600.00	15,600.00
T.A. (NODAL CENTRE)	-	41,760.00	41,760.00	-	39,184.00	39,184.00
TRANSPORTATION ALLOWANCE (NON-TEACHING)	-	10,555,895.00	10,555,895.00	-	8,929,428.00	8,929,428.00
TRANSPORTATION ALLOWANCE (PHE)	-	83,520.00	83,520.00	-	78,816.00	78,816.00
TRANSPORTATION ALLOWANCE (TEACHING)	-	15,475,958.00	15,475,958.00	-	14,283,140.00	14,283,140.00
WARDEN ALLOWANCE (TEACHING STAFF)	-	1,154,775.00	1,154,775.00	-	1,115,004.00	1,115,004.00
WASHING ALLOWANCE (NON TEACHING STAFF)	-	159,535.00	159,535.00	-	123,878.00	123,878.00
Total	-	764,136,135.35	764,136,135.35	-	587,367,803.00	587,367,803.00

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**SCHEDULE 15 A - EMPLOYEES RETIREMENT AND TERMINAL BENEFITS**

Amount in ₹

Particular	Gratuity	Leave Encashment	Total
Opening Balance 01.04.2015	184,218,145.00	179,250,145.00	363,468,290.00
Additional: Capitalized value of Contributions Received from other Organization	-	-	-
Total (a)	184,218,145.00	179,250,145.00	363,468,290.00
Less: Actual Payment during the year (b)	4,829,771.00	5,046,388.00	9,876,159.00
Balance c =(a-b)	179,388,374.00	174,203,757.00	353,592,131.00
Provision required as per Actuarial Valuation (d)	288,400,095.00	209,964,824.00	498,364,919.00
A. Provision to be made in the Current Year (d-c)	109,011,721.00	35,761,067.00	160,825,638.00
B. Contribution to New Pension Scheme	-	-	-
C. Medical Reimbursement to Retired Employees	-	-	-
D. Travel to Hometown on Retirement	-	-	-
E. Deposit Linked Insurance Payment	-	-	-
Total (A+B+C+D+E)	109,011,721.00	35,761,067.00	160,825,638.00

Note

1. The total (A+B+C+D+E) in this sub schedule will be the figure against Retirement and Terminal Benefits in schedule 15.
2. Items B,C,D & E will be accounted on accrual basis and will include bills preferred but outstanding for payment on 31-03-2016

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SCHEDULE-16 ACADEMIC EXPENSES

Particular	Amount in ₹					
	Current Year			Previous Year		
	Plan	Non Plan	Total	Plan	Non Plan	Total
AFFILIATION AND COURSE REGISTRATION FEE	-	743,600.00	743,600.00	-	54,618.00	54,618.00
BOOKS AND PERIODICALS	-	2,261,826.00	2,261,826.00	18,727.00	377,099.00	395,826.00
CONVOCATION EXP.	-	1,891,661.00	1,891,661.00	-	809,896.00	809,896.00
GOLDEN JUBILEE CELEBRATION	-	87,516.00	87,516.00	-	-31,335.00	-31,335.00
INVITED LECTURES	-	1,270,283.00	1,270,283.00	-	1,285,361.00	1,285,361.00
LEVEARAGE	-	134,684.00	134,684.00	-	528,936.00	528,936.00
M TECH SCHOLARSHIP EXPENDITURE	66,468,997.00	-	66,468,997.00	38,310,340.79	-	38,310,340.79
PHE SCHOLARSHIP EXPENDITURE	-	228,903.00	228,903.00	-	126,428.00	126,428.00
PROJECT WORK OF FINAL YEAR STUDENTS	-	168,205.00	168,205.00	-	-	-
QIP SCHOLARSHIP EXPENDITURE	-	-	-	-	105,642.00	105,642.00
RAW MATERIALS FOR ALL LABS/DEPTT.	-	3,804,554.00	3,804,554.00	-	3,740,362.00	3,740,362.00
RESEARCH SCHOLARSHIPS EXPNDITURE	74,980,861.00	-	74,980,861.00	23,739,945.54	-	23,739,945.54
STUDENT ACTIVITY	-	206,181.00	206,181.00	-	7,450.00	7,450.00
SYMPOSIUM AND SEMINAR	-	2,641,235.00	2,641,235.00	-	1,580,226.00	1,580,226.00
Total	141,449,858.00	13,438,648.00	154,888,506.00	62,069,013.33	8,584,683.00	70,653,696.33

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SCHEDULE-17 ADMINISTRATIVE AND GENERAL EXPENSES

Amount in ₹

PARTICULAR	Current Year			Previous Year		
	Plan	Non Plan	Total	Plan	Non Plan	Total
A. INFRASTRUCTURE						
ELECTRICITY CHARGES	-	43,422,122.00	43,422,122.00	-	31,596,314.00	31,596,314.00
ERP (AMC)	-	2,590,332.00	2,590,332.00	-	2,406,071.00	2,406,071.00
INSURANCE OF INSTITUTE PROPERTY	-	165,063.00	165,063.00	-	6,681.00	6,681.00
INTERNET LEASE LINE	-	12,157,013.00	12,157,013.00	-	11,745,099.00	11,745,099.00
Total	-	58,334,530.00	58,334,530.00	-	45,754,165.00	45,754,165.00
B. COMMUNICATION						
POSTAGE TELEPHONE AND TELEGRAM	-800.00	2,952,304.23	2,951,504.23	-	2,976,471.00	2,976,471.00
Total	-800.00	2,952,304.23	2,951,504.23	-	2,976,471.00	2,976,471.00
C. OTHERS						
ADVERTISEMENT	-	3,277,784.00	3,277,784.00	-	5,071,303.00	5,071,303.00
AUDIT FEES	-	430,660.00	430,660.00	-	1,055,350.00	1,055,350.00
BOARDING AND LODGING	-	685,571.00	685,571.00	-	151,220.00	151,220.00
CAMPUS WIDE NETWORK - RECURRING	181,607.00	659,459.00	841,066.00	130,367.00	-	130,367.00
CONTINGENT EXPENSES	-	4,264,687.00	4,264,687.00	-	5,420,379.02	5,420,379.02
EDUCATIONAL EXCURSION AND CAMP	-	-	-	-	32,379.00	32,379.00
FIRST AID AND MEDICINES	-	591,691.93	591,691.93	-	436,433.00	436,433.00
FOREIGN CURRENCY FLUCTUATION LOSS	-	239,924.71	239,924.71	-	-	-
FUEL CHARGES	-	123,912.00	123,912.00	-	43,120.00	43,120.00
GUEST HOUSE MAINTENANCE	-	11,400.00	11,400.00	-	-	-
HONORARIUM	-	172,340.00	172,340.00	-	-	-
LEGAL EXPENSES	-	608,470.00	608,470.00	-	649,190.00	649,190.00
MAINT. OF VEHICLES AND POL	-	931,662.00	931,662.00	-	1,048,470.00	1,048,470.00
NIT TRANSIT HOUSE, NEW DELHI	250,000.00	-	250,000.00	500,000.00	-	500,000.00
PRINTING AND STATIONERY	-	5,154,858.00	5,154,858.00	-	3,709,635.00	3,709,635.00
REFRESHMENT AND ENTERTAINMENT	-	1,488,492.00	1,488,492.00	-	1,377,143.00	1,377,143.00
TRAVELLING ALLOWANCE	-	3,461,165.00	3,461,165.00	-	2,434,111.00	2,434,111.00
OTHER ADMINISTRATIVE EXPENSES (ICC)	-	313,641.00	313,641.00	-	557,370.00	557,370.00
Total	431,607.00	22,415,717.64	22,847,324.64	630,367.00	21,986,103.02	22,616,470.02
Total	430,807.00	83,702,551.87	84,133,358.87	630,367.00	70,716,739.02	71,347,106.02
Transfer to Corpus, Staff Development & Maintenance Fund @2% of Administrative & Establishment Expenses	-	20,560,363.29	20,560,363.29	-	14,913,012.23	14,913,012.23
Transfer to Staff Development, Maintenance Fund, Depreciation Fund @1.5% of Administrative & Establishment Expenses of Previous Year	-	-	-	-	-	-
Grand Total	430,807.00	104,262,915.16	104,693,722.16	630,367.00	85,629,751.25	86,260,118.25

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SCHEDULE-18 TRANSPORTATION EXPENSES

Amount in ₹

Particular	Current Year			Previous Year		
	Plan	Non Plan	Total	Plan	Non Plan	Total
Transport Arrangement	-	212,303.00	212,303.00	-	83,039.00	83,039.00
Total	-	212,303.00	212,303.00	-	83,039.00	83,039.00

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**SCHEDULE-19 REPAIRS & MAINTENANCE**

Amount in ₹

Particulars	Current Year			Previous Year		
	Plan	Non Plan	Total	Plan	Non Plan	Total
Estate Maintenance	-	11,678,349.00	11,678,349.00	-	8,483,669.00	8,483,669.00
Garden Maintenance	-	513,879.00	513,879.00	-	833,051.00	833,051.00
Maint. of Air Conditioning / Coolers	-	683,809.00	683,809.00	-	306,650.00	306,650.00
Maint. of Computers	-	652,117.00	652,117.00	-	573,082.00	573,082.00
Maint. of Hostel Building (Hostel)	-	947,040.00	947,040.00	-	1,258,033.00	1,258,033.00
Maint. of Staff Quarters	-	250,964.00	250,964.00	-	2,599,587.00	2,599,587.00
Repairs/Renewal of Furniture and Equipment	-	2,074,153.79	2,074,153.79	-	3,096,422.00	3,096,422.00
Total	-	16,800,311.79	16,800,311.79	-	17,150,494.00	17,150,494.00

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SCHEDULE-20 FINANCE COSTS

Amount in ₹

Particulars	Current Year			Previous Year		
	Plan	Non Plan	Total	Plan	Non Plan	Total
BANK CHARGES	-	254,211.01	254,211.01	-	-	-
Total	-	254,211.01	254,211.01	-	-	-

Note

If the amount is not material, the head Bank charges could be omitted and these could be accounted as Administrative expenses in Schedule 17.

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SCHEDULE 21 - OTHER EXPENSES

Amount in ₹

Particulars	Current Year			Previous Year		
	Plan	Non Plan	Total	Plan	Non Plan	Total
Bank charges	-	-	-	-	-	-
Irrecoverable Balances Written - off	-	-	-	-	-	-
Grants/Subsidies to other institutions / organizations	-	-	-	-	-	-
Others (specify)	-	-	-	-	-	-
Total	-	-	-	-	-	-

Note:

Other expenses shall be classified as writes - off, provisions, miscellaneous expenses, loss on sale of investment loss of fixed assets and loss on sale of fixed assets etc and disclosed accordingly.


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SCHEDULE-22 PRIOR PERIOD EXPENSES

Amount in ₹

Particulars	Current Year			Previous Year		
	Plan	Non Plan	Total	Plan	Non Plan	Total
Establishment expenses	-	-	-	-	-	-
Academic expenses	-	-	-	-	-	-
Administrative expenses	3,884,172.07	3,709,166.27	7,593,338.34	-	30,072.00	30,072.00
Transportation expenses	-	-	-	-	-	-
Repairs & Maintenance	-	-	-	-	-981,599.00	-981,599.00
Others expenses	-	-	-	-	-	-
Total	3,884,172.07	3,709,166.27	7,593,338.34	-	-951,527.00	-951,527.00



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SCHEDULE: 23

SIGNIFICANT ACCOUNTING POLICIES

1. BASIS FOR PREPARATION OF ACCOUNTS

The accounts are prepared under the Historical Cost Convention unless otherwise stated and generally on the Accrual method of accounting.

2. REVENUE RECOGNITION

- 2.1 Fees from Students, Sale of Admission Forms, Royalty and Interest on Savings Bank account are accounted on cash basis.
- 2.2 Income from Land, Buildings and Other Property are accounted on cash basis.

3. FIXED ASSETS AND DEPRECIATION

- 3.1 Fixed assets are stated at cost of acquisition including inward freight, duties and taxes and incidental and direct expenses related to acquisition, installation and commissioning.
- 3.2 Gifted / Donated assets are valued at the declared value where available; if not available, the value is estimated based on the present market value adjusted with reference to the physical condition of the asset. They are set-up by credit to Capital Fund and merged with the Fixed Assets of the Institution. Depreciation is charged at the rates applicable to the respective assets.
- 3.3 Books received as gifts, are valued at selling prices printed on the books. Where they are not printed, the value is based on assessment.
- 3.4 Fixed assets are valued at cost less accumulated depreciation. Depreciation on fixed assets is provided on Straight line method, at the following rates:

Tangible Assets:

1.	Land	0%
2.	Site Development	0%
3.	Buildings	2%
4.	Roads & Bridges	2%
5.	Tube wells & Water Supply	2%
6.	Sewerage & Drainage	2%
7.	Electrical Installation and equipment	5%
8.	Plant & Machinery	5%
9.	Scientific & Laboratory Equipment	8%
10.	Office Equipment	7.5%
11.	Audio Visual Equipment	7.5%
12.	Computers & Peripherals	20%
13.	Furniture, Fixtures & Fittings	7.5%
14.	Vehicles	10%
15.	Lib. Books & Scientific Journals	10%



Intangible Assets (amortization):

1.	E-Journals	40%
2.	Computer Software	40%
3.	Patents and Copyrights	9 years

- 3.5 Depreciation is provided for the whole year on additions during the year.
- 3.6 Where an asset is fully depreciated, it will be carried at a residual value of Re. 1 in the Balance Sheet and will not be further depreciated. Thereafter, depreciation is calculated on the additions of each year separately at the rate of depreciation applicable for that asset head.
- 3.7 Assets created out of Earmarked Funds and funds of Sponsored Projects, where the ownership of such assets vests in the Institution, are setup by credit to Capital Fund and merged with the Fixed Assets of the Institution. Depreciation is charged at the rates applicable to the respective assets. Assets created out of Sponsored Project funds, where the ownership is retained by the sponsors but held and used by the Institution are separately disclosed in the Notes on Accounts.
- 3.8 Assets, the individual value of each of which is Rs. 2000 or less (except Library Books) are treated as Small Value Assets, 100% depreciation is provided in respect of such assets at the time of their acquisition. However physical accounting and control are continued by the holders of such assets.
- 3.9 The TEQIP Project account is maintained on cash basis and no depreciation is charged on assets created out of project fund as per the World Bank Norms.
- 4. **Intangible Assets: Patents and copy rights, E Journals and Computer Software are grouped under Intangible Assets.**
- 4.1 **PATENTS:** The expenditure incurred from time-to-time (application fees, legal expenses etc.) for obtaining Patents is temporarily capitalized and shown as part of Intangible Assets in the Balance Sheet. If applications for patents are rejected, the cumulative expenditure incurred on the particular patent is written off to the Income & Expenditure Account in the year the application is rejected.

The expenditure on Patents granted is written off over a life of 9 years on a conservative basis.

- 4.2 Electronic Journals (E-Journals) are separated from Library Books in view of the limited benefit that could be derived from the on-line access provided. E-journals are not in a tangible form, but temporarily capitalized and in view of the magnitude of expenditure and the benefit derived in terms of perpetual knowledge acquired by the Academic and Research Staff; Depreciation is provided in respect of E-journals at a higher rate of 40% as against depreciation of 10% provided in respect of Library Books.
- 4.3 Expenditure on acquisition of software has been separated from computers and peripherals, as apart from being intangible assets, the rate of obsolescence in respect of these is very high. Depreciation is provided in respect of software at a higher rate of 40% as against depreciation of 20% provided in respect of Computers & Peripherals.

5. RETIREMENT BENEFITS

Liability towards gratuity payable on death/ retirement of employees is to be calculated on the basis of 15 days salary for each completed year of services of each eligible employees i.e. employees who have completed five years continued service.

Liability of leave encashment is calculated on the basis of salary of each employees with their balance of leaves.



6. INVESTMENTS

- a) Long term investments are carried at their cost or face value whichever is lower. However any permanent diminution in their value as on the date of the Balance Sheet is provided for.
- b) Short Term investments are carried at their cost or market value (if quoted) whichever is lower.
- c) Investments are to be valued at Cost, except in fixed deposit receipts are to be valued at cost plus interest accrued thereon.
- d) Cost shall include acquisition expenses like brokerage, transfer stamps etc.

7. GOVERNMENT GRANTS/ SUBSIDIES :

- 7.1 Government grants of the nature of contribution towards capital cost of setting up projects are treated as capital reserve.
- 7.2 Grants in respect of specific fixed assets acquired are made part of the capital reserve on utilization of the grant.
- 7.3 Receipt of fees are classified as per nature capital and revenue as per Accounting Standard 6 issued by the Institute of Chartered Accountants.
- 7.4 Government grant are accounted on Grant sanction/accrual basis.

8. FOREIGN CURRENCY TRANSACTIONS:

Receipt in foreign currency is recorded at the exchange prevailing on the date of transaction.

Exchange differences arising on the settlement of monetary items is recognized as income or as expenses in the period in which they arise.

9. **Income/Surplus of Institute is exempted from Income Tax as per Section 10(23C) (iiiab) of Income Tax Act 1961.**

10. ACCRUED INCOME

Accrued rent, electricity and water charges from various contractors are account for on actual realization basis due to conservative approach as per AS-1 (Prudence) issued by the Institute of Chartered Accountant of India.

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SCHEDULE: 24**CONTINGENT LIABILITIES AND NOTES TO ACCOUNTS****1. CONTINGENT LIABILITIES:**

1.1 As on 31.03.2016, the claim against the institution not acknowledged as debits Rs. Nil

1.2 Bank Guarantees given on behalf of the institution Rs. Nil

1.3 In respect of claims from parties for non execution of orders, but contested by the institution Rs. Nil

1.4 Estimated value of contracts remaining to be executed on capital account and not provided for (net of advances) Rs. Nil.

2. Nature of the fixed assets has been determined on provisional basis as the value of each class of fixed assets shown needs to be arrived at accurately, on the basis of examination of vouchers of past years as well and this involve tremendous efforts and time. The depreciation charged thereon, therefore is subject to change on such recategorisation of the fixed assets.

3. In the opinion of the management, the value of the current assets, Loans and advances have the revisable value stated.

4. So far the cash system of accounting was being followed, but due to the inference drawn from the new format of accounts the system has been changed to the mercantile. Expenses paid for the earlier years.

5. Figures are exhibiting rounding them off in the Balance Sheet, Income Expenditure Account and Receipt and Payment Account.

6. All Grant received by Institute are refundable.

7. Schedules 1 to 24 are annexed to and form an integral part of the Balance Sheet as at 31.03.2016 and the Income and Expenditure Account for the year ended on that date.

8. As per Accounting Principles approved by MHRD, figures in Balance Sheet and Income & Expenditure have been shown in lakh.

9. Previous Year Figures have been regrouped & rearranged wherever found necessary.


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RECEIPT & PAYMENT ACCOUNT

RECEIPTS		PAYMENTS		Amount in Rupees	
	Current Year	Previous Year		Current Year	Previous Year
I. Opening Balances			I. Expenses		
a) Cash Balances:-			a) Establishment Expenses	520,823,849.96	488,537,991.40
Institute	104,853.00	125,409.00	b) Academic Expenses	146,513,146.00	68,944,015.00
Guest House	184,129.00	50,978.00	c) Administration Expenses	121,491,200.66	82,311,246.92
UNESCO Coupons	558.03	558.03	d) Transportation Expenses	212,303.00	35,562.00
Postage	3,632.00	3,632.00	e) Repairs & Maintenance	13,547,907.00	17,716,532.00
University forms (stock)	13,125.00	13,125.00	II. Payments against Earmarked / Endowment Funds		
b) Bank Balance			III. Payments against Sponsored Projects/Schemes	2,186,277.00	2,718,160.00
i) In Current Accounts	-	-	IV. Payments against Sponsored Fellowships / Scholarships	-	17,388,899.00
ICICI CA-0011	34,203,082.88	17,687,876.44	V. Investments and Deposits made		
ii) In Deposit Accounts			a) Out of Earmarked/Endowments funds	13,616,949.20	16,985,034.00
Institute	255,090,477.87	301,431,385.00	b) Out of own funds (Investments - others)	-	-
Consultancy	55,446,710.08	12,186,695.00	VI. Term Deposits with Scheduled Banks		
R & C	37,570,320.31	10,000,000.00	VII. Expenditure on Fixed Assets and Capital Works-in-Progress		
TEQIP	42,552,152.32	17,599,172.00	a) Fixed Assets	222,598,989.62	229,539,450.83
CBERD	-	9,038,839.00	b) Capital Works-in-Progress	297,662,614.00	223,479,183.00
CMSIC	5,123,372.62	4,687,083.73	VIII. Other Payments including statutory payments		
iii) Savings Accounts			IX. Refunds of Grants(R&C)		
Institute:-			X. Deposits and Advances		
ICICI SB-105615	108,277,507.74	181,169,345.30	a) Earmarked funds	-	49,493,701.94
ICICI-20586	8,967,964.59	8,341,164.50	b) Secured Loans	-	1,322,114.00
OBC 12351	29.30	29.30	c) Unsecured Loans		
OBC SB-22670	-374,180.00	265,271.45	d) Other Liabilities and Provisions		
P.D Account No. 15 (Interest Bearing)	71,951.00	66,192.00	e) Other Liabilities and Provisions(Units)	664,639,716.92	447,921,332.59
SBI 10125472413	267,996.94	257,755.94	f) Provident/Endowment Funds Investments	53,081,924.33	21,554,446.00
SBI-MNIT SB-81946	12,983,064.52	13,702,005.52	g) Investment Others		
YES BANK SB-355	75,788,795.48	302,574,017.30	h) Current Assets, Loans and Advances	1,423,710,599.80	1,829,615,099.00
SBI-Corpus Fund SB-36164	35,122,200.00	-			
SBI-Staff Development SB-67320	23,414,800.00	-			



RECEIPT & PAYMENT ACCOUNT

RECEIPTS		Current Year	Previous Year	PAYMENTS		Current Year	Previous Year
Institute Units:-				i) Current Assets, Loans and Advances (Units)			
Consultancy		37,509,852.44	4,250,524.44	XI. Other Payments (units)		53,682,338.02	1,106,537.00
R & C		22,075,673.73	6,621,154.89	XII. Closing Balances			15,610,086.00
Research			10,976,295.00	a) Cash in hand			
Impact Computer SSS Stream		68,032.00	65,383.00	Institute	247,573.00	247,573.00	104,853.00
Impact Electronic SSS Stream		30,501.48	29,606.48	Guest House	208,196.00	208,196.00	184,129.00
UK India		305,099.35	293,220.35	UNESCO Coupons	558.03	558.03	558.03
ME Part Time		220,381.00	205,223.00	Postage	3,632.00	3,632.00	3,632.00
CBERD		13,704,043.50	9,881,455.50	University forms(stock)	13,125.00	13,125.00	13,125.00
CMSIC		10,707.68	10,290.68	b) Bank Balances			
Guest House		2,489,067.00		i) In Current accounts			
II. Grants Received				ICICI CA-0011	38,787,441.93	38,787,441.93	34,203,082.88
a) From Government of India				ii) In Deposit Accounts			
Plan Grant		720,000,000.00	680,000,000.00	Institute	226,823,312.00	226,823,312.00	250,923,513.22
Non Plan Grant		340,000,000.00	270,000,000.00	Units	232,967,732.31	232,967,732.31	113,469,176.01
PHE Grant		676,000.00	-	iii) Savings accounts			
Nodal Centre Grant		-	-	Institute			
QIP Grant		-	-	ICICI SB-105615	53,331,032.31	53,331,032.31	108,277,507.74
TEQIP Grant		25,000,000.00	42,700,000.00	ICICI-20586	9,858,985.59	9,858,985.59	8,967,964.59
CBERD		9,529,500.00	15,070,000.00	OBC 12351	29.30	29.30	29.30
CREATION OF BARRIER FREE ENV. SIPDA		17,380,858.00	-	OBC SB-22670	1,476,229.00	1,476,229.00	-374,180.00
b) From State Government		-	-	P.D Account No. 15 (Interest Bearing)	78,211.00	78,211.00	71,951.00
c) From other sources (details)		-	-	SBI 10125472413	278,823.94	278,823.94	267,996.94
III. Academic Receipts		262,170,383.37	195,023,042.79	SBI-MNIT SB-81946	12,851,510.09	12,851,510.09	12,983,064.52
IV. Receipts against Earmarked/ Endowment Funds				YES BANK SB-355	90,314,092.29	90,314,092.29	75,788,795.48
V. Receipts against Sponsored Projects/Schemes				SBI-Corpus Fund SB-36164	231,715.00	231,715.00	35,122,200.00
Institute		4,289,090.00	6,334,206.00	SBI-Staff Development SB-67320	154,477.00	154,477.00	23,414,800.00
Units		-	-	Units			
R & C		174,708,063.96	30,177,009.00	Consultancy	5,223,451.93	5,223,451.93	37,509,852.44
VI. Receipts against sponsored Fellowships and Scholarships		-	-	Guest House	6,063,643.00	6,063,643.00	2,489,067.00
		-	-	Research	67,087,801.43	67,087,801.43	22,075,673.73
		-	-	TEQIP	5,902,604.32	5,902,604.32	42,552,152.32



RECEIPT & PAYMENT ACCOUNT

RECEIPTS	Amount in Rupees		PAYMENTS	Amount in Rupees	
	Current Year	Previous Year		Current Year	Previous Year
VII. Income on Investments from					
a) Earmarked/Endowment funds	81,142,454.50	102,557,822.37	Impact Computer SSS Stream	69,381.00	68,032.00
b) Other investments	-	-	CBERD	11,381,999.08	13,704,043.50
VIII. Interest received on			Impact Electronic SSS Stream	30,501.48	30,501.48
a1) Bank Deposit (Institute)	29,475,221.82	21,742,959.92	UK India	320,555.35	305,099.35
a2) Bank Deposit (Units)	10,382,854.80	9,518,251.32	ME Part Time	250,889.00	220,381.00
b) Loans and Advances	-	-	CMSIC	11,249.68	10,707.68
c) Saving Bank Accounts	4,096,949.17	-			
IX. Investments encashed					
X. Term Deposits with Scheduled Banks encashed					
XI. Other income (Including Prior Period Income)					
XII. Deposits and Advances					
a) Fund received from R&C					
i) to Corpus fund	11,812,333.44	11,093,810.00			
ii) to Staff Development Fund	4,094,033.22	5,512,453.50			
iii) to R&D Fund(General)	4,155,637.22	1,587,919.00			
iv) to R&D Fund(ELE. ENGG DEPT.)	-	-			
v) to R&D Fund(MET.ENGG DEPT.)	-	-			
vi) to R&D Fund(CHEMICAL ENGG DEPT.)	-	-			
vii) to R&D Fund(CIVIL)	4,375.00	41,681.50			
viii) to R&D Fund(COMPUTER ENGG.)	206,009.24	-			
ix) to R&D Fund(ECE)	-	-			
x) to R&D Fund(MECHANICAL ENGG.)	-	-			
xi) to R&D Fund(STRUCT.)	-	-			
b) Earmarked funds	-	3,271,821.00			
c) Units	-	24,808,224.99			
d) Receipt of secured Loans	-	-			
e) Receipt of unsecured Loans	-	-			
f) Other Liabilities and Provisions	409,933,983.46	424,171,957.75			
g) Other Liabilities and Provisions (units)	53,706,026.25	-			
h) Provident/Endowment Funds Investments	-	-			
i) Investment Others	-	-			
j) Current assets, loans and Advances	1,326,188,964.80	1,347,452,567.00			
k) Current assets, loans and Advances (Units)	1,026,434.00	33,523,341.00			
XIII. Miscellaneous Receipts including Statutory Receipts					
XIV. Any Other Receipts					
a) Other Income	29,725,250.71	72,859,478.83			
b) Other Income (Units)	6,806,243.75	87,686,866.07			
Total	4,297,736,567.57	4,296,667,099.89	Total	4,297,736,567.57	4,296,667,099.89

ERP ANNEXURE
(Schedule - 2 - Research Development Fund)

Particulars	Opening as on 01-04-2015	Grant Received	Income	Utilization		Closing as on 31-03-2016
				Other	Capital	
R AND D FUND (ELECTRICAL ENGG DEPARTMENT)	38,583.75	-	-	-	-	38,583.75
R AND D FUND (MET.ENGG DEPARTMENT)	232,710.41	-	-	-	-	232,710.41
R AND D FUND (CHEMICAL ENGG DEPARTMENT)	2,500.00	-	-	-	-	2,500.00
R AND D FUND (CIVIL)	6,558,897.70	-	234,379.00	291,804.00	-	6,501,472.70
R AND D FUND (COMPUTER ENGG.)	293,741.00	-	206,009.24	-	-	499,750.24
R AND D FUND (ECE)	195,959.00	-	-	-	-	195,959.00
R AND D FUND (GENERAL)	4,911,828.10	-	4,553,034.22	783,529.00	-	8,681,333.32
R AND D FUND (MECHANICAL ENGG.)	54,822.00	-	-	-	-	54,822.00
R AND D FUND (STRUCT.)	6,135,954.29	-	-	-	-	6,135,954.29
Total	18,424,996.25	-	4,993,422.46	1,075,333.00	-	22,343,085.71



**ERP ANNEXURE
(Schedule - 2 - Research Development Fund)**

SCHEDULE-03.05 STUDENT FUND ENDOWMENT FUND / EARMARKED FUND

Particulars	Opening as on 01-04-2015	Grant Received	Income	Utilization		Transfer to Corpusfund	Closing as on 31-03-2016
				Other	Capital		
ALUMINI ASSOCIATION	12,101,295.00	-	2,157,115.00	3,208,060.00	-	-	11,050,350.00
BOOK BANK	7,907,715.08	-	-	4,325.00	-	-	7,903,390.08
BOOK BANK SC/ST	3,850.00	-	-	-	-	-	3,850.00
COMPUTER AND INTERNET FEE	52,980,295.00	-	12,590,000.00	296,800.00	-	-	65,273,495.00
DEVELOPMENT FEE	22,597,500.50	-	26,330,000.00	728,000.00	-	-	48,199,500.50
EDUCATIONAL TOUR	4,178,541.00	-	-	21,671.00	-	-	4,156,870.00
EXAMINATION FUND	29,503,857.44	-	6,094,187.00	4,115,339.20	-	-	31,482,705.24
FINAL DEGREE CERTIFICATE FEES	-	-	1,365,000.00	1,000.00	-	-	1,364,000.00
IDENTITY CARD	1,472,452.56	-	164,600.00	82,496.00	-	-	1,554,556.56
INDUSTRIAL TRAINING AND PLACEMENT	30,669,480.00	-	8,703,368.00	784,772.00	-	-	38,588,076.00
INTEREST (STUDENT FUND)	163,789,216.47	-	4,910,943.06	2,065,514.32	-	-	166,634,645.21
INTEREST STUDENT FUND	-	-	-	-	-	-	-
LIBRARY FEE	27,179,544.00	-	8,898,226.00	659,301.00	-	-	35,418,469.00
SPORTS AND CREATIVE ART SOCIETY	23,691,229.22	-	11,369,138.00	6,842,873.00	-	-	28,217,494.22
STAFF WELFARE FUND	5,331,144.44	-	44,074.00	-603.00	-	-	5,375,821.44
STUDENT WELFARE FEE	14,883,260.00	-	3,611,400.00	313,874.00	-	-	18,180,786.00
STUDENTS INSURANCE	321,303.00	-	1,786,400.00	1,782,000.00	-	-	325,703.00
TRANSCRIP FEE	399,525.00	-	155,100.00	156,062.00	-	-	398,563.00
Total	397,010,208.71	-	88,179,551.06	21,061,484.52	-	-	464,128,275.25

**ERP ANNEXURE
(Schedule - 2 - Other Earmarked Fund)**

Particulars	Opening as on 01-04-2015	Grant Received	Income	Utilization		Transfer to Separate Fund	Closing as on 31-03-2016
				Other	Capital		
CENTER SECTOR SCHOLARSHIP SCHEME FOR SC STUDENTS	26,640.00	-	1,607,760.00	1,634,400.00	-	-	-
CENTER SECTOR SCHOLARSHIP SCHEME FOR ST STUDENTS	251,400.00	-	-	251,400.00	-	-	-
GRANT IN AID IIIT PLAN	-2,375,548.00	-	10,000.00	769,668.00	-	-	-3,135,216.00
INTEREST ON FDR OF SWAMI SIVANANDA (SCHOLARSHIP)	-	-	388,830.00	312,000.00	-	-	76,830.00
NON RECURICLE GRANT VEHICLE	45,507.00	-	-	-	-	-	45,507.00
NON RECURRING GRANT FOR DEV. OF SITE GOVT OF RAJ	688,026.61	-	-	-	-	-	688,026.61
NON RECURRING GRANT VEHICLE GOI	132,506.00	-	-	-	-	-	132,506.00
UNSPENT BALANCE FOR PG CORUSE	560,000.00	-	-	-	-	-	560,000.00
Total	-671,468.39	-	2,006,590.00	2,967,468.00	-	-	-1,632,346.39



**ERP ANNEXURE
(Schedule - 3 (b) - Projects Grant - Institute Fund)**

Particulars	Opening as on 01.04.2015	Grant Received	Income	Utilization		Transfer to R&C/ CBERD Fund	Closing as on 31.03.2016
				Other	Capital		
PROJECTS GRANT (INSTITUTE FUND)							
DESIGN AND DEVEL OF LOW COST ONE EARTH PASS MEDIA	-	-	223,833.00	-	-	-	-
DESIGN AND DEVELOPMENT OF LOW COST +SOLAR REFRIGERATION SYSTEM FOR RURAL AREA	-	-	-	-	-	-	-
EXPERIMENTAL AND ANALYTICAL STUDIES FOR SHORT	-	-	-	-	-	-	-
IAMR	352,284.00	-	-	-	-	-	352,284.00
INVESTIGATION OF HEAT TRANSFER BOILING WATER	-15,000.00	-	-	-	-	-	-15,000.00
IPR	-	-	-	-	-	-	-
LAB ENHANCEMENT UNDER NPEEE	-91,200.00	-	-	-	-	-	-91,200.00
MNRE CHAIR GRANT	-	-	-	-	-	-	-
MNRE REC	-	-	-	-	-	-	-
PROJECT GRANT	467,000.00	-	-	-	-	-	467,000.00
PROJECT ISEA	-	-	-	-	-	-	-
STEEL DEVELOPMENT FUND	98,262.00	4,289,090.00	-	3,650,422.00	-	-	649,798.00
STRATEGICALLY DEV. OF MATAL SILYLENE COMPLEX	-	-	-	-	-	-	-
TOPTec PROJECT FLEXIBLE	-21,458.50	-	-	-	-	-	-21,458.50
VIRTUAL CLASSROOM	-14,893.00	-	-	38,338.00	-	-	-53,231.00
Total	774,994.50	4,289,090.00	223,833.00	3,688,760.00	-	-	1,288,192.50

**ERP ANNEXURE
(Schedule - 3(b) - Travel, Seminar & Other Grant)**

Particulars	Opening as on 01.04.2015	Grant Received	Income	Utilization		Transfer to Funding Agency	Closing as on 31.03.2016
				Other	Capital		
TRAVEL SEMINAR AND OTHER GRANTS							
DEVELOPMENT OF ALUMINIUM SILICON ALLOYES	31.40	-	-	-	-	-	31.40
ECBC MATER TRAINIG PROGRAMME	161,535.00	-	-	161,535.00	-	-	-
IDENTICAL PROBLEM ON MACHINE AND MECHANISM	472.00	-	-	-	-	-	472.00
ION BEAM IN MATERIAL RESEARCH	167,000.00	-	-	-	-	-	167,000.00
M/S RAJASTHAN RENEWELS ENERGY CORP.	50,270.00	-	-	-	-	-	50,270.00
NDSU MNIT TEACHING COLLABRATION	329,510.00	-	-	-	-	-	329,510.00
REACT ADVANCE IN SIGNAL PRECAST COMMUNITY	92,000.00	-	-	-	-	-	92,000.00
RUIDP	465,084.00	-	-	-	-	-	465,084.00
SHORT TERM COURSE POWER SYSTEM	87,000.00	-	-	-	-	-	87,000.00
STAFF DEVELOPMENT PROGRAMME (DR K C JAIN)	3,922.00	-	-	-	-	-	3,922.00
STAFF DEVELOPMENT PROGRAMME (DR R P YADAV)	101,887.00	-	-	-	-	-	101,887.00
STAFF DEVELOPMENT PROGRAMME (DR ROHIT GOYAL)	20,589.00	-	-	-	-	-	20,589.00
TRAVEL GRANT TO DR T C GUPTA	-	226,709.00	-	-	-	-	-
TRAVEL GRANT TO DR. SANDEEP SANCHETI	50,000.00	-	-	-	-	-	50,000.00
TRAVEL GRANT TO DR. VIJAY JANYANI	-	-	104,692.00	104,692.00	-	-	-
WATER DESALINATION TREATMENT	-75,888.00	-	-	-	-	-	-75,888.00
WATER QUALITY MANAGEMENT NABL REQUIREMENT	112,000.00	-	40,000.00	40,000.00	-	-	112,000.00
WATER QUALITY MANAGEMENT NON NABL	-33,433.00	-	-	-	-	-	-33,433.00
Total	1,531,979.40	226,709.00	144,692.00	306,227.00	-	-	1,370,444.40



(Schedule - 3(b) - Student Fund)

Particulars	Opening as on 01.04.2015	Grant Received	Income	Utilization		Transfer to Funding Agency	Closing as on 31.03.2016
				Other	Capital		
STUDENT FUND							
CSIR FELLOWSHIP DR ARTI KASHYAP	3,523.90	-	-	-	-	-	3,523.90
CSIR JRF KRUTI BHANDARI	69,038.00	-	-	-	-	-	69,038.00
DRDO STUDENT ROBOT COMPETITIONS	204.00	-	-	-	-	-	204.00
DST STUDENT PROJECT (SHRI PAWAN KALLA)	7,000.00	-	-	-	-	-	7,000.00
HYDRO 2008	73,214.00	-	-	-	-	-	73,214.00
INSPIRED FELLOWSHIP ASSURED OPPORTUNITY	96,008.00	-	-	-	-	-	96,008.00
ISRO MAP PROJECT	62,842.00	-	-	-	-	-	62,842.00
JRF RUCHI MAHESHWARI	212,000.00	-	-	-	-	-	212,000.00
MNES FELLOWSHIP (VIKAS SADAN)	17,343.00	-	-	-	-	-	17,343.00
UGC JRF MS NEHA AGARWAL	27,484.00	-	-	-	-	-	27,484.00
UGC SCHOLERSHIP RITU SHARMA	15,000.00	-	-	-	-	-	15,000.00
Total	583,656.90	-	-	-	-	-	583,656.90

**NPS TIER - I ACCOUNT
BALANCE SHEET AS AT MARCH 31, 2016**

(Rs. in Lakhs)

Amount As on 31.03.2015	Liabilities	Amount	
		As on 31.03.2015	As on 31.03.2016
	NPS Tier-I Account		
7.06	Opening Balance		0.45
123.92	Add : Subscriptions in the year	11.72	183.44
0.00	Add : Interest Credited		0.00
-130.53	Less : Transferred to NSDL		-183.21
11.72	Add : Subscription for March 2016		16.18
0.00	Excess of Income over Expenditure	0.45	0.68
12.17	Total	12.17	16.86
	Assets		
	Subscription and contribution due for March 2016		16.18
	Investment		
	Balance at Institute Bank		0.68
	Total	12.17	16.86

Prakash
Asstt. Registrar

[Signature]
Registrar

[Signature]
Director



NPS TIER - I ACCOUNT
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2016

(Rs. in Lakhs)

<i>Amount</i> 31.03.2015	<i>Expenditure</i> 31.03.2016	<i>Amount</i> 31.03.2016	<i>Income</i> 31.03.2016	<i>Amount</i> 31.03.2016
0.00	Interest credited to subscribers' Accounts	0.00	Interest Earned on Investment	0.00
0.00	Bank Charges	0.00	Less : Interest Accrued March 2016	0.00
0.00	Excess of Income over Expenditure	0.00	Interest Accrued but not due	0.00
	Total	0.00	Total	0.00


Asstt. Registrar

Asstt. Registrar


Registrar

Registrar


Director

Director



**GENERAL PROVIDENT FUND ACCOUNT (GPF TRUST)
BALANCE SHEET AS AT MARCH 31, 2016**

Amount	Assets	Amount
31.03.2015		31.03.2016
172731834.85	Investment (FDRs)	188602774.34
7525887.90	Interest accrued on FDR	7516229.72
1630600.00	Subscription due for March, 2016	1717000.00
28486458.00	GPF Loan to Employee	28325468.00
6542966.00	ICICI Flexi Deposit	18397966.00
4818618.96	ICICI Bank Balance	3414135.96
0.00	Own Share Receivable	57000.00
221736365.71	Total	248030574.02

Amount	Liabilities	Amount
31.03.2015		31.03.2016
203346480.61	Opening Balance	219180661.61
0.00	Less : Subscription for March 2015	1630600.00
20486950.00	Add : Subscriptions in the year	21192219.00
1630600.00	Add : Subscription for March 2016	1717000.00
13626762.00	Add : Interest Credited	15498238.00
16900131.00	Less : Advance / withdrawal	11868787.00
3010000.00	Repayment to MNIT	0.00
219180661.61	Closing Balance	244088731.61
2555704.10	Interest Reserve	2555704.10
	Add : Surplus during the year	1386138.31
221736365.71	Total	248030574.02


Director


Registrar


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**GENERAL PROVIDENT FUND ACCOUNT (GPF TRUST)
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2016**

<i>Amount</i> 31.03.2015	<i>Expenditure</i>	<i>Amount</i> 31.03.2016	<i>Amount</i> 31.03.2015	<i>Income</i>	<i>Amount</i> 31.03.2016
	Interest Credited to :		8656578.20	Interest earned on Investment	9368146.59
13626762.00	GPF Account	15498238.00	7525887.90	Add : Interest accrued on 03.2015	7516229.72
	CPF Account				
	University Contribution (CPF)				
	NPS Tier-II Account				
2555704.10	Excess of Income over Expenditure	1386138.31			
16182466.10	Total	16884376.31	16182466.10	Total	16884376.31

Arshdeep

Asstt. Registrar

[Signature]

Registrar

[Signature]

Director



GENERAL PROVIDENT FUND ACCOUNT (GPF TRUST)

RECEIPTS AND PAYMENTS ACCOUNTS FOR THE FINANCIAL YEAR 2015-16

Receipts	Amount	Payments	Amount
Opening Balance as on 01.04.2015		GPF Advance/Permanent withdrawal	4949246.00
ICICI Bank	4818618.96	GPF Final Payment	3968541.00
ICICI Flexi Deposit	6542966.00	FDR in Yes Bank	196119004.06
FDR in Yes Bank	180257722.75	GPF Loan to Employee	17438790.00
GPF Subscription	21125215.00	Closing Balance	3414135.96
Interest Received	16884376.31	ICICI Bank	18397966.00
Loan Recovery Cash Deposited	587800.00	ICICI Flexi Deposit	21812101.96
Loan Recovery Salary	14070984.00		
Total	244287683.02	Total	244287683.02

Registrar

Director

Asstt. Registrar