



MNIT JAIPUR

EVENT REPORT

EVENT TYPE : **Webinar**
TOPIC : **Design and Simulation of Optical Sensor using FDTD: An Introduction**
DATE & TIME : **12th Jan 2022 at 12:00 P.M**
MODE : **Online (Google Meet: <https://meet.google.com/jth-dqhn-pkm>)**

A Webinar on the topic "Design and Simulation of Optical Sensor using FDTD: An Introduction" is organized by the IEEE Sensor Council Student Chapter MNIT, Jaipur. The invited speaker is Dr. Gaurav Kumar Bharti, Assistant Professor, Electrical Engineering Department, Chandigarh University, on 12th Jan 2022 at 12:00 P.M through google meet.

At the beginning of the webinar, Dr. Gaurav Kumar Bharti said that Council's mandate is not only to carry out some research on sensors and develop projects for the benefit of the society but it focuses on the theory, design, fabrication, manufacturing, and application of devices for sensing bridging the gap between institutions as well as colleges & Universities to promote and transfer technology for the betterment of the society. He said that Optical sensing is ubiquitous in science and technology and is becoming prevalent in our daily lives.

The purpose of this webinar is to guide using FDTD, a hands-on opportunity for participants unfamiliar with optical sensors using Lumerical's DEVICE Suite to see what they measure, how they work, and what interferes. Absorbance, attenuation, and scattering are covered in making good measurements using sensors with different power, sensors tuned to different wavelengths, and sensors with different geometries.

In the webinar, a total of 27 participants, among them Ph.D. Scholars, M.tech. Students and researchers participated; 22 are IEEE members and 5 are non IEEE members.

After that, an interactive session is held in which participants share interesting questions. The webinar concluded by a vote of thanks given by Akshay Pratap Singh Chair, IEEE Sensor Council, Student Chapter MNIT.