

Department of Instrumentation Activities 2021-22

1. **IEEE EDS Distinguished Lecture Talk (virtual mode)**: Department of Instrumentation in collaboration with the IEEE-Electron Devices Society Delhi chapter organizes the IEEE EDS Distinguished Lecture Talk on “**Near-/in-sensor computing for neuromorphic machine vision**” by Dr. Yang Chai Associate Professor, Department of Applied Physics, The Hong Kong Polytechnic University On Wednesday, 15th September 2021.

2. **IEEE EDS Distinguished Lecture Talk (virtual mode)**: Department of Instrumentation in collaboration with the IEEE-Electron Devices Society Delhi chapter organizes the IEEE EDS Distinguished Lecture Talk on “**Heterogeneous Integration for AI Architectures**” by Dr. Mukta G. Farooq, Distinguished Research Staff Member, IBM Research - TJ Watson & Albany, New York on Tuesday, 08th February 2022.

3. **Technical Fest-Technexus**: Department of Instrumentation, organizes its technical festival, Technexus 2022 on 7th and 8th February 2022 in online mode. The event is technically sponsored by IEEE EDS Delhi Chapter along with Sun Pharma as a Knowledge partner. As a part of Technical Fest following three talks were organized:
 - I. “**Analytical Techniques for the Assessment of Nitrosamines Impurities**” by Mr Tapesh Jain, Team Leader, Analytical Research, Sun Pharma.
 - II. “**Recent Trends for Invitro release of Dosage Forms by Dissolution Technique**” by Mr. Navjot Singh, Team Leader, Analytical Research, Sun Pharma, Gurugram, Haryana
 - III. “**IEEE-EDS Mission and visions**” by Prof.Mridula Gupta, Head Department of Electronic Science, University of Delhi South Campus and Chairperson, IEEE EDS Delhi Chapter.
 - IV. “**Biosensors for biomedical diagnostics**” by Dr. Sakshi Dhanekar, Assistant Professor, Department of Electrical Engineering, IIT Jodhpur and Chairperson IEEE Sensors Delhi Chapter.

4. **Virtual training session on “Synopsys TCAD solutions”** Department of Instrumentation, organized a virtual training session on “Synopsys TCAD solutions” in collaboration with IEEE EDS Delhi Chapter. The training was delivered by Mr. Vyom Sharma, Application Engineer, Eigen Technologies Pvt. Ltd on Wednesday, May 25, 2022, from 11:00 am onwards in virtual mode on the Google meet platform. Around 50 participants including students, Research Scholars, and Faculty members attended the training session.

5. **'Wonders Of Science': A hands-on workshop on basic and applied sciences for senior secondary school students:** Department of Instrumentation in collaboration with **IEEE Electron Devices Delhi Chapter, IEEE Delhi Section SIGHT and other** departments of college Physics, Chemistry, Microbiology, Computer Science, and Electronics organised an eight days hands-on workshop for Saraswati Bal Mandir Senior Secondary School (SBM) students on 'Basic and Applied Science' from 31st May to 7th June 2022. There were about 32 students of class XI and class XII of Saraswati Bal Mandir Senior Secondary School along with their teachers who attended the workshop with full enthusiasm. The workshop began with an inaugural session on 31.05.22 followed by a keynote address by the Chief Guest Prof. Manoj Saxena. The workshop started in full swing, wherein the school students were given the much-needed and realistic exposure to the various laboratory equipment and techniques. They were made to perform several experiments in different departmental laboratories, giving them exposure to niche areas of pure and applied sciences, which in turn may help them in finding their interest and making future career choices. The event was concluded with a very insightful valedictory session on 7th June 2022. The valedictory session was graced by the presence of the chief guest Prof. A.Q. Ansari and Mr. Rajkumar Sharma (Principal, SBM School). The school students were also awarded participation certificates. Such great enthusiasm portrayed by the school students coupled with the honest and sincere efforts of the college faculty, non-teaching staff, and volunteers, made the event a huge success.

6. **In-house summer internship/projectI:** Department of Instrumentation organizes In-house summer internships/projects for 2nd and 3rd-year students of the college in the summer holidays in June and July. The broad areas for the summer internship were: Analytical Instrumentation and Nanoscience,IoT and its application, and semiconductor devices and application.
7. **Teacher's day Celebration:** Department students celebrated Teacher's Day on 5th September 2022.
8. **Departmental Council Election:** Department conducted online elections via google form for electing the student council of the department on 20th September 2021 and 20th January 2022.
9. **Orientation Programme:** Department organized an online session for an orientation program for students of I st year on 22 nd November 2021 via Google meet.
10. **Online Counselling Session:** Department organized an online session on "Guidance and choice of Discipline Specific Elective Paper" via Google Meet application on 25th December 2021. Dr. Yogesh Pratap, Faculty of the department acted as a resource person for the session.
11. **Freshenza '22:** Department students organized freshers' party to welcome their juniors on 9 th March 2022.