



IETE STUDENT FORUM (ISF)



INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS

IETE Students' Forum (ISF) regularly organizes technical and non-technical events where students are given a chance to showcase their talent and knowledge. The prime intent of this ISF is to enhance the students' technical merit and implant the habit of deeper learning and research.

Two Week Value added Workshop “Hands-On Training Programme on Developments in communication engineering and electronics”

Patron
Dr. Sehijpal Singh
Principal
GNDEC, Ludhiana

Chief Coordinator
Dr. Narwant Singh Grewal

Coordinator
Dr. Munish Rattan and Dr. Baljeet Kaur

Co-Coordinator
Dr. Gurburneet Kaur and Er. Kuldeepak Singh

Organizing Committee

Er. Harminder Kaur
Dr. Gurjot Kaur
Dr. Navneet Kaur
Er. Chahat Jain
Er. Daljit Singh
Er. Simranjit Kaur
Dr. Preeti Pannu
Er. Shivmanmeet Singh
Er. Kuwarpartap Singh
Er. Harleen Kaur

ELIGIBILITY

Interested students from B.tech (2nd year, 3rd year, 4th year) and M.tech can apply using the registration link/QR Code till 15th February 2024.

The registration fee for the participants is INR 100/-. Certificates will be issued for those who fulfill the attendance criteria.

REGISTRATION FORM LINK

Form Link- <https://forms.gle/BPC3FdN29qWUan6x7>

Or scan QR Code

Contact Details:
9988825855 Dr. Gurburneet Kaur
9501180009 Prof. Kuldeepak Singh



TWO WEEK VALUE ADDED WORKSHOP

HANDS-ON TRAINING PROGRAMME ON DEVELOPMENTS
IN COMMUNICATION ENGINEERING AND ELECTRONICS

UNDER IETE STUDENT FORUM

19 February 2024 to 1 March, 2024



Organised by
Department of Electronics and Communication Engineering
Guru Nanak Dev Engineering College, Ludhiana,
An Autonomous College U/s UGC Act-1956 [2(f) and 12(B)]

This hands-on training was organized for **2 weeks , from February 19, 2024 to March1, 2024.**

ABOUT THE WORKSHOP!

DAY-1: INTERNET OF THINGS: MAKING A THING AND MAKING APPS FOR IOT

Dr. Divneet Singh Kapoor was the instructor of the first day. He briefed the students about the IOT subject. Got them familiarized with what is IOT and how it works. Familiarizing them with components that are being used such as raspberry Pi, Nodemcu, ESP8266 and BMP180.



Further he imparts information about the weather monitoring system using ubidots IOT platform. He provide the list of components that are being used and explained about the coding that is being done to connect Nodemcu and sensor.

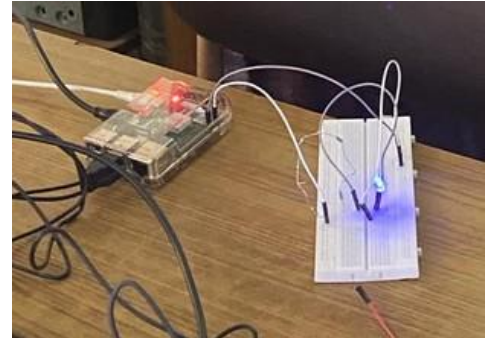


DAY-2: Intellectual Property Rights Awareness

Er. Simranjit Kaur and Er. Harminder Kaur were the Mentors of the second day. They Guided the students about the Intellectual Property Rights Awareness and wireless communication system. This training session enabled the participants to become proficient in these concepts.



Further, Dr. Navneet Kaur and Dr. Gurjot Kaur has guided the students about raspberry pi and facilitated a tutorial on blinking a led using raspberry pi. Participants were grouped and given components to perform tasks independently.



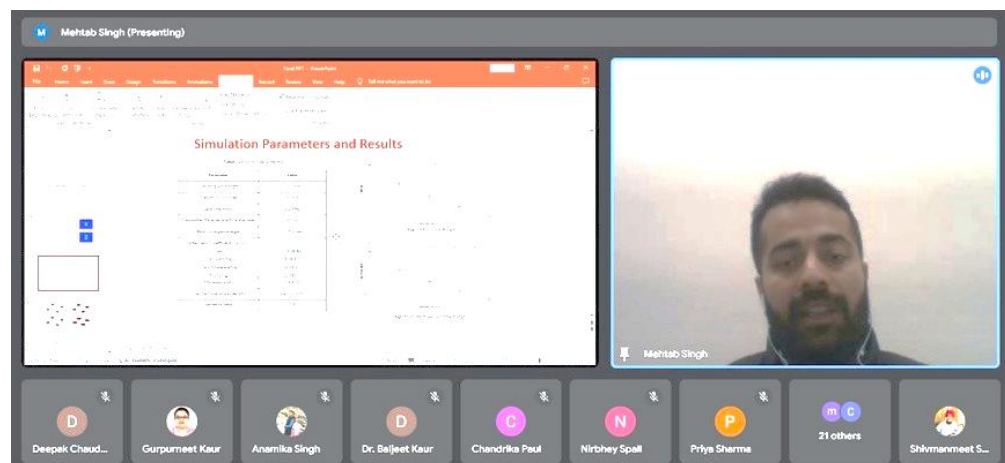
DAY-3: Hands-on Training on Optisystem

The instructors for the third day were Dr. Baljeet Kaur and Prof. Kuldeepak Singh. They informed the students about the Optisystem concept. They imparted knowledge about software utilized in developing fiber optic systems, simulating signals and appraising overall system performance.



DAY-5: Free Space Optics: Challenges and Applications

Dr. Mehtab Singh from Chandigarh university was the instructor of the fifth day. It was an online session in which he briefed the students about the concept of free space optics. Got them familiarized with Applications and challenges faced by system .

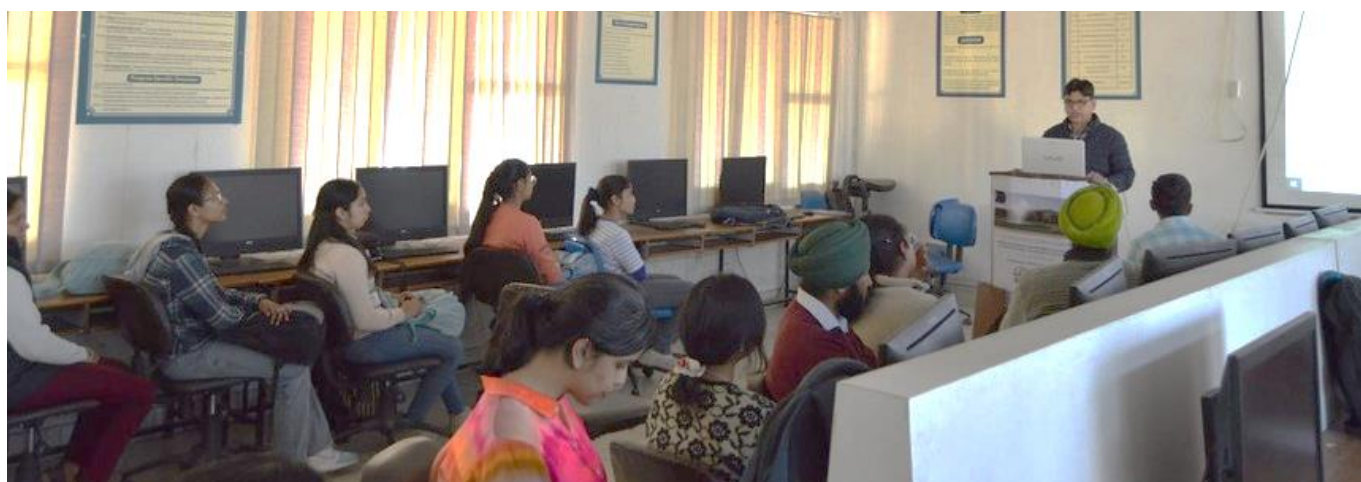


DAY-6: PLC Programming and Research Paper Writing

Er. Daljit Singh conducted lessons on the sixth day. The objective of this workshop was to provide rigorous training on Programmable Logic Controller (PLC) followed by hands-on training using Siemens PLC software was provided exclusively by the trainer.



The second session was on 'Research Paper Writing' delivered by Dr. Raman Kumar and Er. Shivmanmeet Singh. During the session he explained about the literature survey, method sectioning and proceeded with incorporating the importance of pictorial representation in a research paper. Later on, both briefed about various templates for writing research papers.



DAY-7: Hands-on training on 2D and 3D VLSI devices using Cogenda TCAD in online mode

Mr. Amit Saini and Dr. Gurpurneet Kaur was the instructor of the seventh day. It was an online session in which he briefed the students about the concept of 2D and 3D VLSI Devices using Cogenda TCAD. Got them familiarized with 2D and 3D VLSI devices. Our thorough training session enabled the participants to become proficient in these concepts.

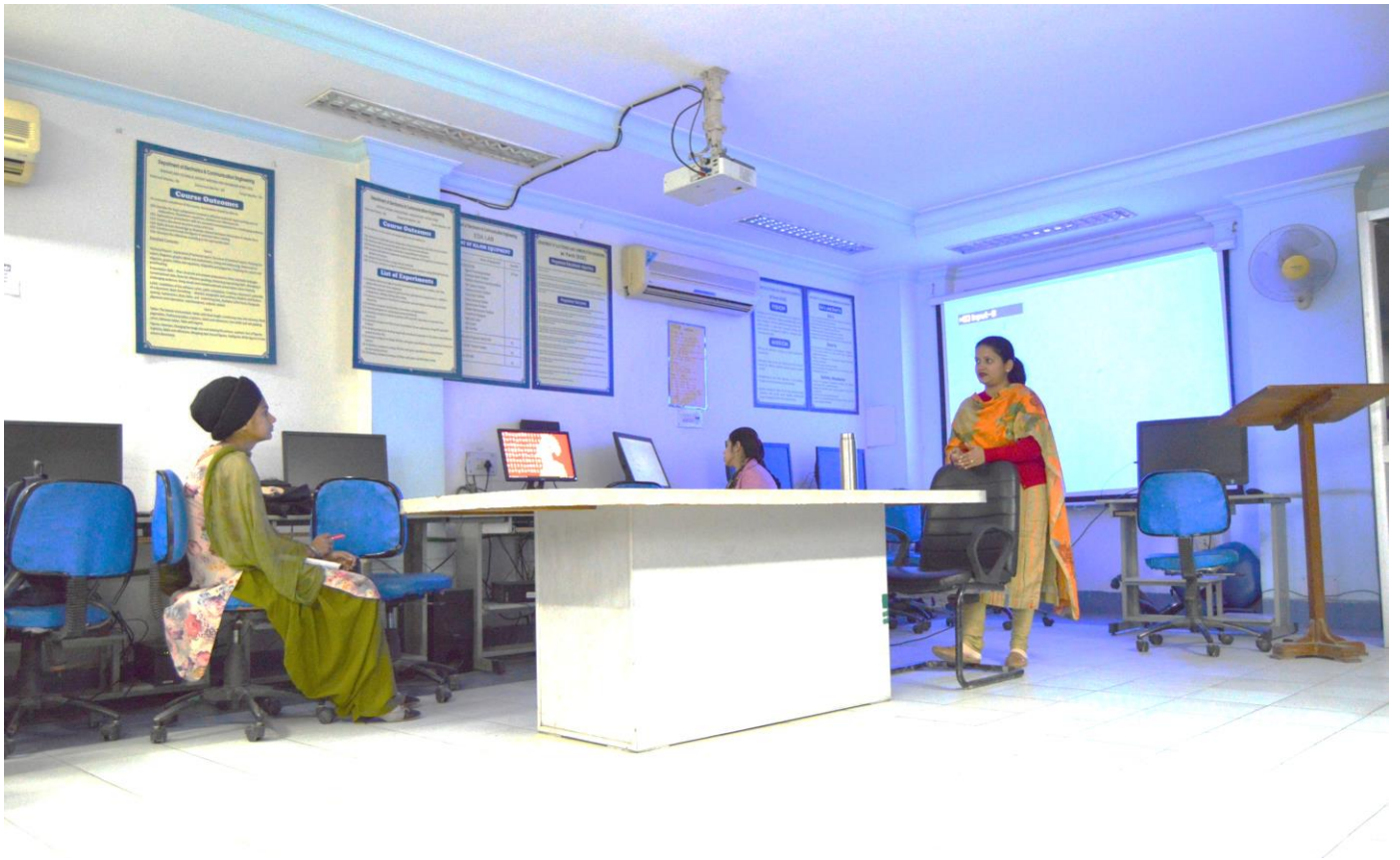




DAY-8! Study and Hands-on training on Antenna Design using IE3D

The instructors for the eighth day were Dr. Preeti mam and Er. Chahat mam. They informed the students about the Antenna design using IE3D. They imparted knowledge about Evolving, developing, and improvising different types of patch antennas suitable for various applications like microwave communication, radar, mobile communication and RFID.





DAY-9: Health and Happiness and Brain Hijacking and decoding superstitions

Mr. Harinder Singh conducted lessons on the ninth day. The objective of this workshop was to know about healthy life and Brain Hijacking and decoding superstitions. Mr. Singh profound the impact of happiness on health.





DAY-10! Hands-on training on Xilinx Vivado

The tenth session was 'Hands-on training on Xilinx Vivado' delivered by Er. Gurjot Kaur Walia and Dr. Navneet Kaur, in the session they explained about the zed board and gives us Hands-on training on Xilinx Vivado. Later on, she briefed about how we can use zed board in minor and projects.



On the Tenth day “VELEDICTORY CEREMONY “was held in which 10 days’workshop completion certificates were provided to the students as well as the teachers by Dr. H.S.Rai (Officiating Principal GNDEC) and Dr. Narwant Singh Grewal (HOD-ECE).



Attendance List (Two week value added workshop hands on training programme on developments in communication engineering and electronics)

Sr No.	Name	CRN	URN	Sem	19-02-2024	20-02-2024	21-02-2024	23-02-2024	26-02-2024	27-02-2024	28-02-2024	29-02-2024	01-03-2024
1	Upmeet Kaur	2117079	2104434	6th	Upmeet	Upmeet	Upmeet	Upmeet	Upmeet	Upmeet	Upmeet	Upmeet	Upmeet
2	Simranjeet Kaur	2117073	2104428	6th	Simranjeet	Simranjeet	Simranjeet	Simranjeet	Simranjeet	Simranjeet	Simranjeet	Simranjeet	Simranjeet
3	Adarsh Shrivastava	2117113	2203778	6th	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh
4	Anmol Kumar Srivastav	2117104	2134680	6th	Anmol	Anmol	Anmol	Anmol	Anmol	Anmol	Anmol	Anmol	Anmol
5	Charanjot Singh	2117025	2104376	6th	Charanjot	Charanjot	Charanjot	Charanjot	Charanjot	Charanjot	Charanjot	Charanjot	Charanjot
6	Rohit	2117066	2104419	6th	Rohit	Rohit	Rohit	Rohit	Rohit	Rohit	Rohit	Rohit	Rohit
7	Gautam Kumar	2117116	2203781	6th	Gautam	Gautam	Gautam	Gautam	Gautam	Gautam	Gautam	Gautam	Gautam
8	Amarjeet Kaur	2217007	2203695	4th	Amarjeet	Amarjeet	Amarjeet	Amarjeet	Amarjeet	Amarjeet	Amarjeet	Amarjeet	Amarjeet
9	Ashutosh Kumar	2117115	2203780	6th	Ashutosh	Ashutosh	Ashutosh	Ashutosh	Ashutosh	Ashutosh	Ashutosh	Ashutosh	Ashutosh
10	Kapil Tandon	2117043	2104392	6th	Kapil	Kapil	Kapil	Kapil	Kapil	Kapil	Kapil	Kapil	Kapil
11	Tajinder Singh	2117076	2104431	6th	Tajinder	Tajinder	Tajinder	Tajinder	Tajinder	Tajinder	Tajinder	Tajinder	Tajinder
12	Tamanna Sharma	2117077	2104432	6th	Tamanna	Tamanna	Tamanna	Tamanna	Tamanna	Tamanna	Tamanna	Tamanna	Tamanna
13	Neha Gupta	2117102	2104403	6th	Neha	Neha	Neha	Neha	Neha	Neha	Neha	Neha	Neha
14	Savnoor Channi	2117071	2104425	6th	Savnoor	Savnoor	Savnoor	Savnoor	Savnoor	Savnoor	Savnoor	Savnoor	Savnoor
15	Saadgi Bawa	2117067	2104420	6th	Saadgi	Saadgi	Saadgi	Saadgi	Saadgi	Saadgi	Saadgi	Saadgi	Saadgi
16	Dhairya Sobti	2117027	2104378	6th	Dhairya	Dhairya	Dhairya	Dhairya	Dhairya	Dhairya	Dhairya	Dhairya	Dhairya
17	Chandrika Paul	2117024	2104375	6th	Chandrika	Chandrika	Chandrika	Chandrika	Chandrika	Chandrika	Chandrika	Chandrika	Chandrika
18	Tanmay Pandey	2217084	2203769	4th	Tanmay	Tanmay	Tanmay	Tanmay	Tanmay	Tanmay	Tanmay	Tanmay	Tanmay
19	Pavneet Kaur	2217058	2203746	4th	Pavneet	Pavneet	Pavneet	Pavneet	Pavneet	Pavneet	Pavneet	Pavneet	Pavneet
20	Nirbhay Singh	2117052	2203741	4th	Nirbhay	Nirbhay	Nirbhay	Nirbhay	Nirbhay	Nirbhay	Nirbhay	Nirbhay	Nirbhay
21	Tashneet Kaur	2017077	2004868	8th	Tashneet	Tashneet	Tashneet	Tashneet	Tashneet	Tashneet	Tashneet	Tashneet	Tashneet
22	Tanisha Choudhary	2017076	2004866	8th	Tanisha	Tanisha	Tanisha	Tanisha	Tanisha	Tanisha	Tanisha	Tanisha	Tanisha
23	Rabnoor Kaur	2217060	2203748	4th	Rabnoor	Rabnoor	Rabnoor	Rabnoor	Rabnoor	Rabnoor	Rabnoor	Rabnoor	Rabnoor
24	Ramneet Kaur	2217062	2203750	4th	Ramneet	Ramneet	Ramneet	Ramneet	Ramneet	Ramneet	Ramneet	Ramneet	Ramneet
25	Sonu Tiwari	2217078	2203764	4th	Sonu	Sonu	Sonu	Sonu	Sonu	Sonu	Sonu	Sonu	Sonu
26	Rhythm	2217065	2203753	4th	Rhythm	Rhythm	Rhythm	Rhythm	Rhythm	Rhythm	Rhythm	Rhythm	Rhythm
27	Arun Rawat	2117017	2104368	6th	Arun	Arun	Arun	Arun	Arun	Arun	Arun	Arun	Arun
28	Mansi	2217047	2203737	4th	Mansi	Mansi	Mansi	Mansi	Mansi	Mansi	Mansi	Mansi	Mansi
29	Kanwaljeet Singh	2217040	2203730	4th	Kanwal	Kanwal	Kanwal	Kanwal	Kanwal	Kanwal	Kanwal	Kanwal	Kanwal
30	Manohar Kumar	2217046	2203736	4th	Manohar	Manohar	Manohar	Manohar	Manohar	Manohar	Manohar	Manohar	Manohar

Coordinator

Mansi Bhatia
Smt