



IETE STUDENTS' FORUM

(ISF)

INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS



The IETE Students' Forum (ISF) at Guru Nanak Dev Engineering College, Ludhiana, is committed to the holistic development of students by providing a platform to explore and enhance their technical, managerial, and interpersonal skills. Alongside academic growth, ISF continuously engages students in various co-curricular and extra-curricular activities throughout the year.

On 15 October 2025, the Electronics and Communication Engineering (ECE) students of Guru Nanak Dev Polytechnic College, Ludhiana participated in an engaging workshop on **VHDL-based digital circuit design and implementation using the ZedBoard** platform by Dr **Navneet Kaur** and Dr. **Gurjot Kaur Walia** . The session began with an expert introduction to the fundamentals of hardware description languages, focusing on VHDL syntax, entity-architecture modelling, and simulation. Following this, the participants were guided through step-by-step tasks: designing a simple digital circuit in VHDL, synthesising it, and then implementing it on a ZedBoard, thereby getting hands-on experience with both the software and hardware aspects of digital systems.

The workshop proved to be highly beneficial for the students, as they gained practical exposure beyond their regular coursework—transitioning from abstract HDL descriptions to working hardware on the ZedBoard. It also fostered collaborative learning, as students worked in teams to debug design issues and optimise timing constraints under instructor guidance. Overall, the event helped bridge the theoretical-practical divide, enhancing the students' confidence in digital design workflows and equipping them with skills relevant for future projects and industry roles.

The Workshop was organized under the guidance of:

- Dr Gurburneet Kaur (Coordinator ISF)
- Dr Shivmanmeet Singh (Secretary ISF)
- Ramneet Kaur (Convenor ISF)
- Rabnoor Kaur (Co Convenor ISF)
- Tanmay Pandey (Co convenor ISF)

Dr. Shivmanmeet Singh
(Secretary ISF)

Dr. Gurburneet Kaur
(Coordinator ISF)

GLIMPSE OF THE EVENT



Dr. Shivmanmeet Singh
(Secretary ISF)

Dr. Gurpurneet Kaur
(Coordinator ISF)

ATTENDANCE

| Name | Roll No | Name | Roll No |
|-------------------------|---------|---------------------|---------|
| Rishi Gupta | 966 | Gurjangh Singh | 939 |
| Asespreet Singh | 906 | Rajveer Singh | 963 |
| Charanpreet Singh | 937 | Manjot Singh | 952 |
| Ridhi | 905 | Tavisha Sharma | 954 |
| Rohit Dhiman | 946 | Adarsh Pal | 940 |
| Inderpreet Singh Jagdev | 951 | Karanveer Singh | 933 |
| Gurleen Kaur | 919 | Jashandeep Singh | 924 |
| Sandeep | 980 | Priyanshu Kumar | 961 |
| Baldeep Singh | 969 | Sanovepal Kaur | 983 |
| Aisha Rani | 953 | Jashanveer Singh | 925 |
| Avneet Singh | 934 | Anuj | 904 |
| Gangaveer Singh | 912 | Suraj Kumar | 992 |
| Uday Singh | 976 | Navpreet Singh | 986 |
| Prince Kumar | 968 | Jashanveer Singh | 924 |
| Prabhjot Singh | 958 | Tanvir Anot | 973 |
| Sehajdeep Singh | 968 | Harkirat Singh | 916 |
| Gourav Rawat | 979 | Satveer Singh | 991 |
| Harpreet Singh | 918 | Himanshu | 974 |
| Ekamjot Singh | 939 | Anjali | 903 |
| Tajinder Singh | 964 | Priyanshu Kr. Singh | 962 |
| Karanveer Singh Grewal | 935 | Harsh Kumar | 919 |



Dr. Shivmanmeet Singh
(Secretary ISF)



Dr. Gurpurneet Kaur
(Coordinator ISF)



Dr. Shivmanmeet Singh
(Secretary ISF)



Dr. Gurpurneet Kaur
(Coordinator ISF)