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**Mrs. Vrushali Prabhudessai**

Asst. Professor, Department of ECE

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Asst. Professor, Department of ECE



## PILAR SOCIETY'S AGNEL INSTITUTE OF TECHNOLOGY & DESIGN (AITD) ASSAGAO-GOA

Agnel Technical Educational Complex

Assagao, Bardez - Goa 403507

Phone : +919975797916

Email id : ece.iste@aitdgoa.edu.in



@aitdgoa



**AICTE**



**ISTE**

Sponsored Six Day Online  
Induction/Refresher's  
Programme on

## ELECTRONIC CIRCUITS SIMULATION AND PCB DESIGN

**14<sup>th</sup> - 20<sup>th</sup> January 2022**

## ABOUT THE INSTITUTION

Agnel Institute of Technology and Design (AITD) was started in the year 2012, by Agnel Charities (Society of Pilar). Our college is located in the serene, lush green atmosphere of Mapusa –Anjuna road, in Goa. The college is approved by AICTE and is affiliated to Goa University to offer Mechanical Engineering, Electronics and Communications Engineering and Computer Engineering. The institution has high quality infrastructure and well equipped laboratories. It frequently organizes Workshops, FDPs and Seminars on advanced technical topics for the enhancement of the faculty and students. The Institute houses Centre for Incubation and Business Acceleration (CIBA) with a versatility to cater to the needs in the core Engineering field. Hence, this college emerges with a unique objective of encouraging research and promoting innovation and creativity in all its undergraduate programs. The campus sprawls across twelve acres of green, peaceful, serene and pollution free environment and it is the only Engineering Institute in North Goa.

## ABOUT ELECTRONICS & COMMUNICATIONS ENGINEERING DEPARTMENT

The Department of Electronics and Communications Engineering was established in the year 2012. The department offers an Under Graduate program in Electronics and Communications Engineering. The programme is approved by the All India Council of Technical Education (AICTE), India. The sanctioned seats are 60 per academic year. The department comprises of highly experienced teaching faculty and under their guidance, the assisted students have excelled in their academics. The class ambiance gives the students a platform to develop their creativity and innovation. The department has 10 laboratories with all the required equipment that gives real time exposure to the students. In addition to this, internship and Industrial Visits are part of the programme. Department has a sophisticated Printed Circuit Studio which gives an opportunity for the students to design and verify Electronic Circuit boards and RF devices fabrication. Under AICTE MODROB Scheme, Advanced Signal Processing Lab is established for the benefit of students and faculties doing research in the area of DL, ML and Signal Processing.

## ABOUT THE PROGRAMME

In the era of global competitiveness, the Engineers and Scientists of Indian industry have to acquire hi-tech knowledge in Electronic Design Automation (EDA) and Real Time applications at par with International Standards. This program is designed to give basic conceptual knowledge and hands-on skills in the schematic capture and design levels and also to create and disseminate awareness about the things to be considered to design Electronic Circuits and its fabrication aspects. This program is designed to give an introduction to new methods and innovations in the area of circuit design and fabrication. Electronic Circuit Simulation and Fabrication can be regarded as an important aspect of the undergraduate curriculum of Electronics Engineering/ Electrical Engineering/ Instrumentation Engineering disciplines. This program is designed to endow with academic knowledge and hands-on skills in schematic capture and design documentation. Exposure to this basic skill is indispensable to researchers as well.

## KEY TOPICS TO BE COVERED

- Simulation of Analog, Digital and mixed signal circuits.
- Understanding of Netlists and how to analyse it.
- Understanding of Electronics project design flow.
- Schematic design, Entry rules for Schematic Entry, Component Layout methods.
- Different aspect of Printed Circuit Board design and fabrication.
- Understanding of signal integrity in PCBs.
- PCB Design guidelines for EMI and EMC.
- Placement rules, Routing Techniques for Single Sided Board.
- Post-processing of design and fabrication.

## Resource Persons:

Eminent personalities from IIT's, NIT's, reputed Institutions and Industries have been invited to share their expertise on the thrust areas of the programme.

## REGISTRATION

Total registration for the programme is restricted to 100 participants. Preference will be given to ISTE members and selection will be based on "First Come First Serve". Certificates will be awarded to the participants who will satisfy the requirements of a minimum 80% attendance and 60% or more marks in quiz conducted during and at the end of programme.

## NO REGISTRATION FEE

### HOW TO REGISTER

Registration form is available along with this brochure on <https://aitdgoa.edu.in/aitdistefdpcece>



### WHO CAN ATTEND

PG and Research scholars, Faculty members from AICTE approved Institutes. PG and Research scholars. It is also open to Scientists and Engineers who are working in Industry wish to gain a basic understanding of concepts.

### IMPORTANT DATES

**Last date for registration: 31<sup>st</sup> December, 2021.**  
**Intimation of Selection: 3<sup>rd</sup> January, 2022.**

### For Further Information Contact:

Dr. J William, Coordinator

Mobile: 9443399499

Mr. Laxmikant Bordekar, Co-Cordinator

Mobile: 9881779037

Mrs. Vrushali Prabhudessai, Co-Cordinator

Mobile: 9823062706

