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Convener
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Program Coordinator
Dr. Ravish H. Hirpara
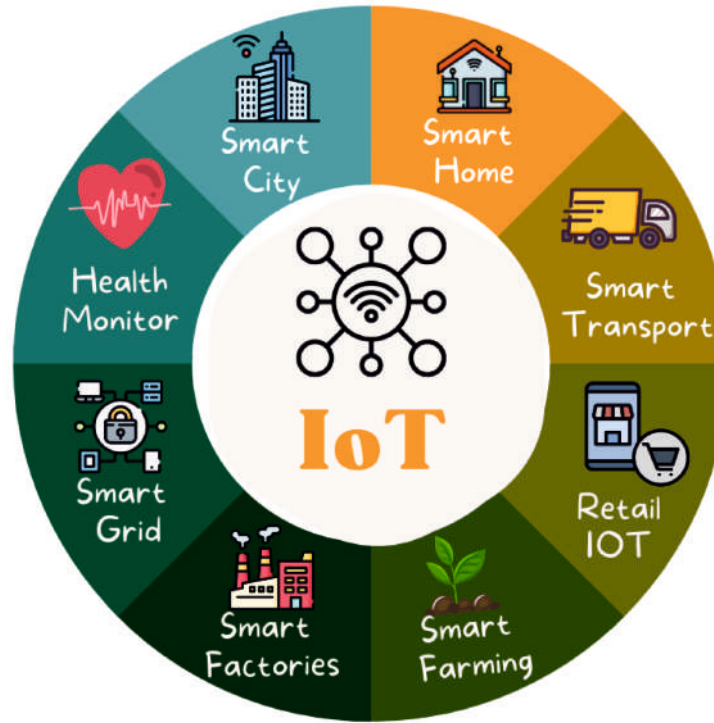Associate Professor
Electrical Engineering Department

Program Co-Coordinator
Dr. Chirag A. Naik
HOD & Associate Professor
Electrical Engineering Department

Registration :
For registration,
participants are required to Sign up at
the AICTE portal
https://www.aicte-india.org/atal
After registration,
you can apply for FDP with your login
credentials.

Contact Us

Dr. Ravish H. Hirpara
Mo. 9924259911

Dr. Chirag A. Naik
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**SHRI SITARAMBHAI NARANJI PATEL
INSTITUTE OF TECHNOLOGY,**
MANAGED BY VIDYABHARTI TRUST, UMRAKH -BARDOLI

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Electrical Engineering Department
Organized

AICTE Training and Learning (ATAL)
Sponsored One Week (Online)

FACULTY
DEVELOPMENT PROGRAMME
on

INTERNET OF THINGS AND
ITS APPLICATIONS

**16th to 21th December,
2024**

All India Council for Technical Education (AICTE)

All India Council for Technical Education (AICTE) was set up in November 1945 as a national-level apex advisory body to conduct a survey on the facilities available for technical education and to promote development in the country in a coordinated and integrated manner.

AICTE – Teaching and Learning (ATAL)

In AICTE – Teaching and Learning (ATAL) academy, the main objective is to plan and help impart quality technical education in the country and to support technical institutions fostering research, innovation and entrepreneurship through training in various emerging areas. This academy aims at calculating the drive for research and knowledge enhancement among the faculty members and research scholars, PG Scholars and industry persons.

About The Institute

Vidyabharti Trust is the name associated with education for more than three decades near Bardoli of Surat district and has now evolved as a symbol of quality education dedicated to nurturing the talent and aspirations of the bright youth of our nation.

S. N. Patel Institute of Technology & Research Centre is a premier institution approved by the All India Council for Technical Education (AICTE), New Delhi, and affiliated with Gujarat Technological University (GTU), Ahmedabad, Gujarat. It was foresight to get talented engineers in the field of Mechanical, Civil, Electrical, Chemical, Computer Science Engineering and Information Technology. Institute also offers post-graduation courses in the area of construction management (Civil), and production engineering (Mechanical). Mechanical Engineering Depart has been accredited by NABL, New Delhi. Mechanical Engineering Depart is NBA Accredited upto June, 2026.

SNPIT also consists NABL Accredited Material Testing Lab as well as Schedule I Environmental Audit Lab approved by Gujarat Pollution Control Board, Gandhinagar.

About Department

Electrical Engineering is one of the most popular fields of engineering which is concerned with the study, design, application and maintenance of equipment, devices and systems which use electricity, electronics, and electromagnetism.

With the inception of Gujarat Technological University, Sitarambhai Naranji Patel Institute of Technology & Research Centre started Electrical Engineering Department in 2008 with the intake capacity of 60. The current intake capacity of Electrical Engineering Department is 120.

Objective

- The Internet of Things (IoT) has evolved from the convergence of wireless technologies, and the Internet, by connecting "things" in the real world such as home appliances, industrial equipment, surveillance cameras, monitoring sensors, and actuators. The IoT will foster the development of a number of applications that make use of the potentially enormous amount and variety of data generated by such objects to provide new services to citizens, companies, and public administration.

Expected Outcomes

This FDP aims to make the participants realize the importance of IoT and its applications in various fields as well as to demonstrate some demo projects on specific applications. This course also gives an introduction to IoT, so that participants can learn to build their own IoT products for various applications, and it also enables them to convert their product ideas into a working prototype.

Course Contents

Introduction to IoT
IOT Related technology
IOT Application for Smart Humans and Sustainable world
IOT: Building Blocks and Applications
Approach of IOT in industries.
Cyber Security in IoT
Research Area in IOT
IoT - Smart Cities
Introduction to Information retrieval
Role of IOT in health care
IoT and predictive control
Challenges in IoT

Course Outline

6 days course
13 online sessions.
online test and feedback

Resource Persons

Resource persons for the Faculty Development Programme are Experts from the relevant Industries and Faculties from IITS, NITs and other reputed institutes.

Who can Attend

The Faculty member, Research Scholars and PG Students from AICTE approved institutions are eligible for this FDP. There is no registration fee to attend this FDP

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ATAL-FDP ON
INTERNET OF THINGS AND ITS APPLICATIONS (Online)

16th to 21th December, 2024
FDP SPEAKERS

Dr. Manoj Kumar
Director, Innovation & Partnerships
System Research & Applications,
STMicroelectronics, Noida
Session Title
IoT Systems: Multi-disciplinary approach and Success factors for large scale deployment

Dr. Gautam D. Makwana
Associate Professor, SOT,
GTU,
Ahmedabad, Gujarat
Session Title
Challenges in IoT Applications

Dr. M. Sashikala
Professor & Director,
Centre for Medical Electronics,
Anna University, Chennai
Session Title
Role of IOT in health care

Prof. Rajbabu Velmurugan
Professor,
Department of Electrical Engineering,
IIT, Bombay
Session Title
IoT in Agriculture

Dr. Ujjaval Patel
Assistant Professor,
NFSU, Gandhinagar,
Gujarat
Session Title
Internet of Things: Trends, Challenges and its Applications

Dr. Satish Singh
Associate Professor-
CSE
IIIT Allahabad
Session Title
Artificial Intelligence in IOT

Dr. Lalit Singh
Scientist, NPCIL-BARC
Department of Atomic Energy,
Government of India
Session Title
Reliability Analysis of Communication protocol for safety critical systems

Mr. Tejas Pandya
Full Stack Developer,
Brillio, Pune
Session Title
Introduction to Information retrieval

Dr. K. Lakshmi Narayanan
Associate Professor,
Electronics and Communication Department,
Francis Xavier Engineering College,
Tirunelveli, Tamil nadu
Session Title
IoT in Smart Citie

Mr. Rohit Prajapati
Chief Technical Officer
Digitoad Technologies,
Bangalore
Session Title
Edge AI for IoT Applications

Prof. Mahmoud Elsisi
Associate Professor,
Department of Electrical Engineering,
NKUST, Kaohsiung, Taiwan
Session Title
IOT and Predictive Control

Dr. Zareb Mohamed El Mehdi
Associate Professor,
University of Mustapha Stambouli Mascara ,
Algeria
Session Title
Approach of IOT in industries

Mr. Jomon Rajan
Senior Program Manger
Cyware lab USA, Bangalore
Session Title
Cyber Security Tales from Defenders Perspective

Join Now
https://www.aicte-india.org/atal

Organizing Committee

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