

OVERVIEW :

This workshop aims to provide the participants with the focus set to reflect the latest research on advance issue in Robotics and Automation. In last decade the research on robotics has been strongly focused on development of automation.

COURSE OBJECTIVES :

- >To understand the basic concepts associated with the design, functioning and applications of Robots
- >To study about the robotic control
- >To learn about analyzing Robot Kinematics and Robot Programming

COURSE OUTCOMES :

- >Able to understand the robotics system in depth and its applications.
- >Able to understand kinematics and Dynamics of Robots.
- >Able to understand the controlling part of Robot.
- >Able to learn programming of Arduino using Proteus Software.
- >Able to understand about Robotic Vision and working of Mobile robots.

COURSE CONTENTS :

- >Introduction to Robotics and Automation.
- >Kinematics and Dynamics of Robot.
- >Robotic Control
- >Simulation session on arduino uno.
- >Robotic Vision and working of Mobile robots.
- >Career Opportunities

About the Organization



DR. AMBEDKAR INSTITUTE OF TECHNOLOGY is managed by Panchajanya Vidya Peetha Welfare Trust (Regd.) was established by late Sri. M. H. Jayaprakash Narayan in 1979. The institute is affiliated to Visvesvaraya Technological University (VTU), Belagavi and is Accredited by AICTE. The institute has been accredited by NAAC with 'A' grade and is mentee institute for Institution of Engineering & Technology, Dr. Ram Manohar Lohia Avad University, Faizabad, Uttar Pradesh. most of the programmes are accredited by NBA. A part from 10 disciplines of Engineering, The institute also offers MCA, MBA and M.Tech. programs in various specializations. The institute is one among the 14 colleges selected for receiving the world bank assistance under the technical education quality improvement programme (TEQIP-III) through the government of India.

ABOUT THE DEPARTMENT

The Dept. of Electronics and Communication Engineering came into grant-in-aid of Government of Karnataka in 1992. The UG course has been started in the year 1982 with an intake of 60 and presently UG program intake is 180. The PG course M.Tech in VLSI Design and Embedded Systems was started in 2003-2004 with an intake of 18. Staffs are highly qualified and also the members of prestigious professional bodies like IEEE, ISTE, SSI AND CSI. IEEE student chapter has been setup. Students have participated and won prizes in intercollegiate technical activities.

DR. AMBEDKAR INSTITUTE OF TECHNOLOGY

An Autonomous Institution, Aided by Govt of Karnataka, Affiliated to VTU, Belagavi



One Week Workshop
on
“Robotics and Automation”
from
08-08-2022 to 13-08-2022

Sponsored by

**Karnataka Science and
Technology Academy**



ORGANIZED BY
**DEPT. OF ELECTRONICS AND COMMUNICATION
ENGINEERING**

CHIEF PATRONS:

Sri Mariswamy S.,

Hon. Chairman, P.V.P Welfare Trust, Bengaluru.

Sri A R Krishnamurthy,

Hon. Managing. Secretary, P.V.P Welfare Trust, Bengaluru

Dr. B N Umesh,

Hon. Treasurer, P.V.P Welfare Trust, Bengaluru.

Sri S. Shivamallu,

Hon. Trustee, P.V.P Welfare Trust, Bengaluru.

Dr. M. Mahadeva

Hon. Trustee, P.V.P Welfare Trust, Bengaluru

Dr. M Meenakshi,

Principal, Dr A.I.T, Bengaluru.

Dr. K N Anuradha,

Dean (A), Dr A.I.T, Bengaluru

Vision

To excel in education and research in Electronics and Communication Engineering and its related areas through its integrated activities.

Mission

- To provide students a strong foundation in Electronics and Communication Engineering.
- To provide high quality technical education in Electronics and Communication Engineering discipline and its related areas to meet the growing needs and challenges of industry and society.
- To be a contributor to technology through the process of skill development, value based education, research and innovation

Chief Coordinator:

Dr. S Ramesh

Prof. and HOD, Dept. of ECE

Dr A.I.T, Bengaluru.

Coordinators:

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Dept. of ECE, Dr A.I.T, Bengaluru

Contact number: 9035286400

Registration Link:

<https://forms.gle/GEiOb2w5rRO23oMg7>

One Week Workshop

on

“Robotics and Automation”

from

08-08-2022 to 13-08-2022

Name:

Designation

Department

Institution

e-mail id

Mobile Number

Address

Declaration :

I declare that all the details furnished above are true to the best of my knowledge and I agree to abide by the rules and regulations governing the conduct One Week Workshop on “Robotics and Automation”.

Date :

Place : Signature of the Applicant

Authorization Certificate :

This is to certify that _____ is a regular Student /Research Scholar of our institutions and is hereby permitted to attend One Week Workshop on “Robotics and Automation” at Dept. of ECE, Dr.AIT. Bengaluru..

Date :

Place :

Signature of the HOD/ Principal with seal.



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Report on Karnataka Science and Technology Academy (KSTA), Govt. of Karnataka, Sponsored an Online Five Days Workshop Program on “Robotics and Automation” from 8th August 2022 to 13th August 2022, Organized by the Department of Electronics and Communication, Dr. Ambedkar Institute of Technology, Bengaluru.

The Department of Electronics and Communication Engineering, Dr. Ambedkar Institute of Technology has organized Karnataka Science and Technology Academy (KSTA) sponsored online five days workshop Program on “Robotics and Automation” on 8th August 2022 to 13th August 2022.

Professor and Head of the Department ECE, Dr. S Ramesh, along with the Chief Convenor Dr.M.Meenakshi , Principal, Dr. AIT ,along with Conveners Dr.M.V Vijaykumar, Vice -Principal and Dr.K N Anuradha, Dean (Academic) and Coordination of Mala Sinnoor, Assistant Professor, Vidyashree C, Assistant Professor and Spoorthi P A, Assistant Professor, Dept. of ECE, Dr A.I.T, Bengaluru, has inaugurated the event at 9.30 AM in ECE Seminar Hall with the inspirational thoughts and practical experiences.

Total number of participants for the workshop was 76

Participants	No. of participants from Karnataka
Female students	25
Male students	48
Total	73

Online Five Days Workshop Program on “Robotics and Automation” Sponsored by Karnataka Science and Technology Academy (KSTA), Govt. of Karnataka.



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**Online Five Days Workshop Program on “Robotics and Automation” Sponsored by
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Category wise participants for the Workshop

Category	Number of Participants
General	16
OBC	52
SC	04
ST	1
Others	0
Total	73

Day 1 Session 1 (10. 00am to 12.00pm):

Session 1 of the first day started at 10.00am on 08/08/2022 in ECE seminar hall and was presented by Dr.Karthikeyan M, Head and Professor, Department of Robotics and Automation,Rajarajeshwari College of Engineering, Bengaluru. The Session was started with a brief introduction of Robotics & Automation.With this overview he went on explaining Robotics. There were many topics covered during the session like the importance of Robotics,Types of Robots,importance of Robotics in the industry,and explained the importance of this session for the students to gain hands-on experience in the latest trends of Robotics in automotive industries.

Online Five Days Workshop Program on “Robotics and Automation” Sponsored by Karnataka Science and Technology Academy (KSTA),Govt. of Karnataka.



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Online Five Days Workshop Program on “Robotics and Automation” Sponsored by Karnataka Science and Technology Academy (KSTA), Govt. of Karnataka.



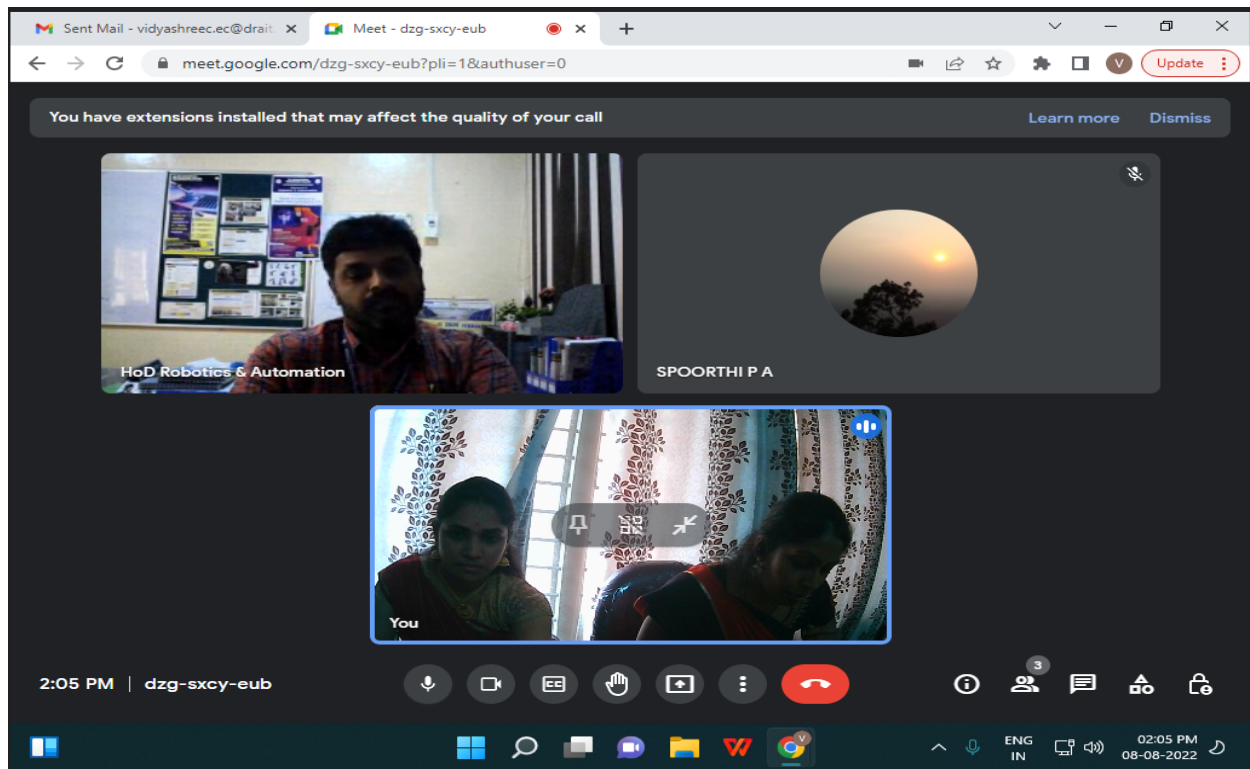
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Day 1 Session 2 (2.00 pm to 4.00pm):

The Session was started with a brief introduction of Kinematics of Robot by Dr.Murugarajan A,Professor and Head,Department of Robotics and automation,Sree Ramakrishna College of Engineering ,Coimbatore.In briefing about basics of Kinematics of robots ,Kinematics is the study of the relationship between a robot's joint coordinates and its spatial layout, and is a fundamental and classical topic in robotics. Kinematics can yield very accurate calculations in many problems, such as positioning a gripper at a place in space, designing a mechanism that can move a tool from point A to point B, or predicting whether a robot's motion would collide with obstacles.



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Day 2 -Session 3 (10. 00am to 12.00pm):

The Session was started with a brief introduction of Dynamics of Robots by Dr.Murugarajan A,Professor and Head,Department of Robotics and automation,Sree Ramakrishna College of Engineering ,Coimbatore. Various topics covered in this session were Forward Dynamics and Inverse Dynamics .**Robot dynamics** is concerned with the relationship between the forces acting on a robot mechanism and the accelerations they produce. Typically, the robot mechanism is modeled as a rigid-body system, in which case robot dynamics is the application of rigid-body dynamics to robots. The two main problems in robot dynamics are:

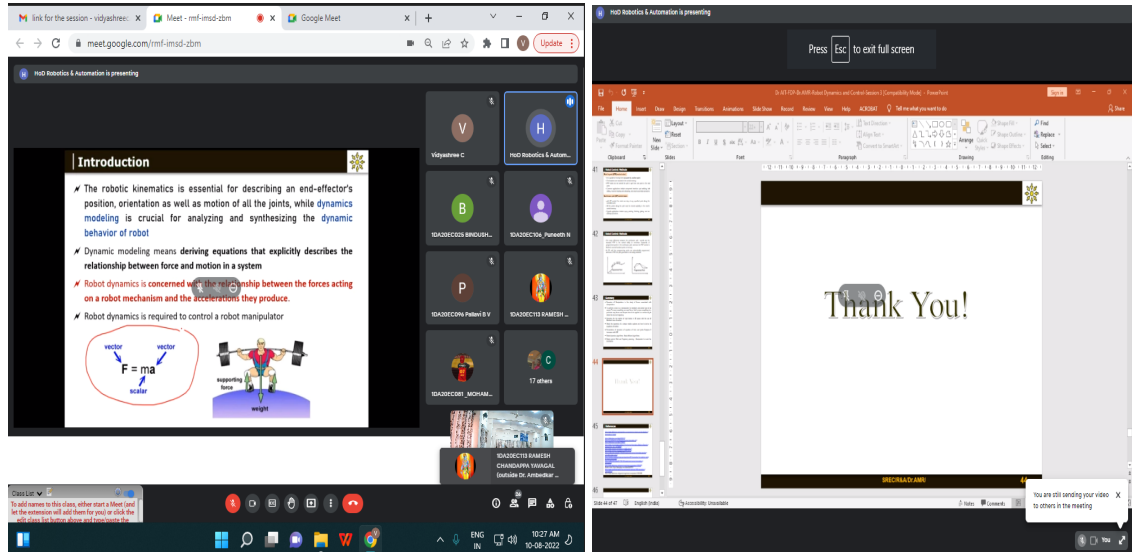
- **Forward dynamics:** given the forces, work out the accelerations.
- **Inverse dynamics:** given the accelerations, work out the forces.

Forward dynamics is also known as "direct dynamics," or sometimes simply as "dynamics." It is mainly used for simulation. Inverse dynamics has various uses, including: on-line control of robot motions and forces, trajectory design and **optimization**, design of robot mechanisms, and as a component in some forward-dynamics **algorithms**.



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Day-2 Session 4 (2.00 pm to 4.00pm):

The Session was started with control of Robotics by Sarveswaran S, Assistant professor, Department of Robotics and automation, Sree Ramakrishna College of Engineering, Coimbatore.

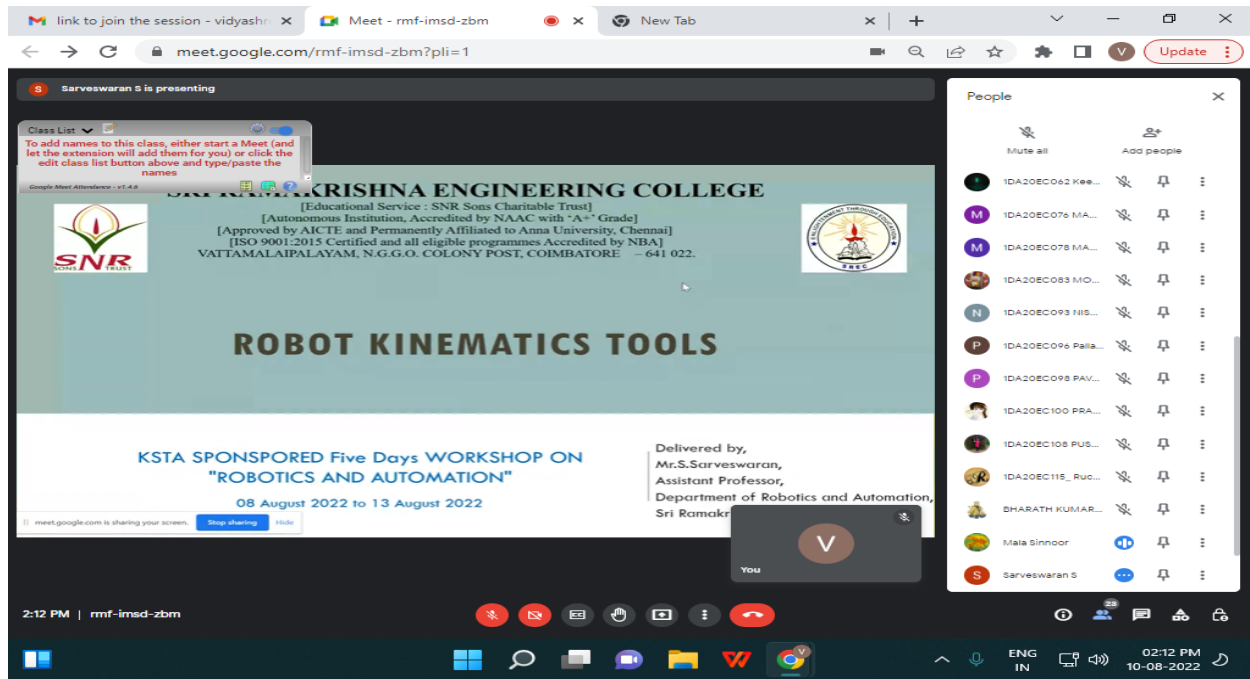
The speaker discussed Robotic **control** as the system that contributes to the movement of **robots**. This involves the mechanical aspects and programmable systems that make it possible to control robots. Robotics could be controlled in various ways, which includes using manual control, **wireless control**, semi-**autonomous** (which is a mix of fully automatic and wireless control), and fully autonomous (which is when it uses **artificial intelligence** to move on its own, but there could be options to make it manually controlled). In the present day, as technological advancements progress, robots and their methods of control continue to develop and advance.

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Day 3 -Session 5 (10. 00am to 12.00pm):

The session was started by Introduction to Arduino Uno by Mr.Panduranga N M,Embedded software engineer at Embiot technologies Pvt.Ltd. **Arduino Uno** is an [open-source microcontroller board](#) based on the [Microchip ATmega 328P](#) microcontroller and developed by [Arduino.cc](#) and initially released in 2010.The board is equipped with sets of digital and analog [input/output \(I/O\) pins](#) that may be interfaced to various [expansion boards](#) (shields) and other circuits.^[1] The board has 14 digital I/O pins (six capable of [PWM](#) output), 6 analog I/O pins, and is programmable with the [Arduino IDE](#) (Integrated Development Environment), via a type B [USB cable](#).

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Day-3 Session 6 (2.00 pm to 4.00pm):

The afternoon session about Arduino Uno was continued by Mr. Panduranga N M, Embedded software engineer at Embiot technologies Pvt.Ltd. Various components that can be interfaced with Arduino Uno were introduced. A sensor records the physical data by changing the voltage at their output pin in response to different physical conditions.

Arduino Uno has a set of Analog input pins which can be used to take analog input signals from a sensor.

Remember there are two types of signals:

1. Digital Signals: These signals have only two values i.e. 1 or 0 (on or off).

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2. Analog Signals: These signals have values in a range. In the case of Arduino it scales the value in the range from 0 to 255.

Day 4-Session 7 (10. 00am to 12.00pm):

The Session was started with a brief introduction of robotic vision by Mr.Girish Baliga,Marketing engineer,Keysight technologies. A robotic vision system is a technology that enables a robot to “see.” These systems enable the machine to be able to identify, navigate, inspect or handle parts or tasks.

A robotic vision system consists of one or more cameras connected to a computer. The computer contains a processing software program that helps the robot interpret what it sees. Then, the robot follows the program’s instructions—specified by the manufacturing facility’s staff—to complete the specified task.

Additional elements, such as lighting, image sensors, communications devices or other components, can be incorporated to add to the machine’s overall capabilities.



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Day-4 Session 8 (2.00 pm to 4.00pm):

The Session was started with an introduction of Mobile Robots by Mr. Girish Baliga, Marketing engineer, Keysight technologies. A **mobile robot** is an **automatic machine** that is capable of **locomotion**. Mobile robotics is usually considered to be a subfield of **robotics** and **information engineering**. Mobile robots have the capability to move around in their environment and are not fixed to one physical location. Mobile robots can be "autonomous" (AMR - **autonomous mobile robot**) which means they are capable of navigating an uncontrolled environment without the need for physical or electro-mechanical guidance devices. Alternatively, mobile robots can rely on guidance devices that allow them to travel a predefined navigation route in relatively controlled space. By contrast, **industrial robots** are usually more-or-less stationary, consisting of a **jointed arm** (multi-linked manipulator) and **gripper** assembly (or **end effector**), attached to a fixed

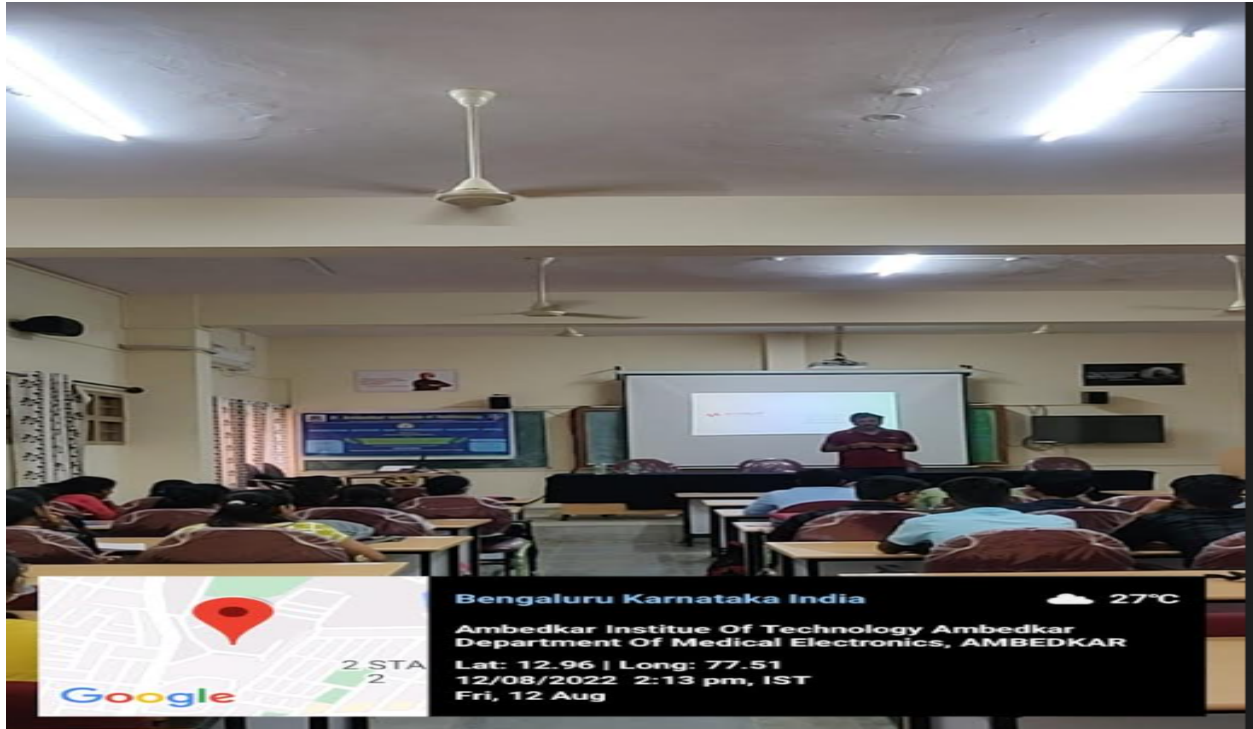


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surface.



Day 5-Session 9(10. 00am to 12.00pm):

The Session was started by giving a brief about career opportunities in the field of Robotics by Mr.Girish Baliga,Marketing engineer ,Keysight technologies.A career in robotics is an incredibly rewarding path for budding engineers. With newer, faster, and more intelligent robots introduced every day, the industry offers several exciting careers for robotics engineers. Become part of the revolution today and join the ever-growing field.From manufacturing and healthcare to agriculture and surveillance, robotics is helping shape a new world.

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Session 10 -Valedictory : After the last session valedictory was held from 12.00 PM to 1:00PM.



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**Online Five Days Workshop Program on “Robotics and Automation” Sponsored by
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RESOURCE PERSONS

Dr. M. H. Kori,

Technology Consultant, Former Technical Director,
Alcatel Lucent Technologies, Immediate Past Chairman
IMAPS India

Dr. Goutham Simha G D

Assistant Professor,
dept. Electronics and Communications Engineering, MIT,
Manipal

Dr. Pallaviram Sure,

Department of ECE,
Faculty of Engineering And Technology
Ramaiah University of Applied Sciences, Bangalore

Mr. Kishan Kittur

Senior Analyst, Application Development, Accenture

Mr. Naveen Chandra C

Director, Nawin Gurukula, Senior Network Engineer,
Wipro Infotech

Dr. Kiran Trivedi,

Associate Professor,
Shantilal Shah Engineering College, Gujarat, India

ABOUT THE ORGANIZATION

Dr. Ambedkar Institute Of Technology is managed by Panchajanya Vidya Peetha Welfare Trust (Regd.) was established by late Sri. M .H. Jayaprakash Narayan in 1979. The institute is affiliated to Visvesvaraya Technological University (VTU), Belagavi and is Accredited by AICTE. The institute has been accredited by NAAC with 'A' grade and is mentee institute for Institution of Engineering & Technology, Dr. Ram Manohar Lohia Avadh University, Faizabad, Uttar Pradesh most of the programmes are accredited by NBA a part from 10 disciplines of Engineering, the institute also offers MCA, MBA and M. Tech. programs in various specializations. The institute is one among the 14 colleges selected for receiving the world bank assistance under the Technical Education Quality Improvement Programme (TEQIP) through the government of India.

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&



**Institute of Engineering &
Technology**

Dr. Rammanohar Lohia Avadh University, Ayodhya,
U.P.



**National Level Five Days
Virtual FDP**

on

**“Research Directions in Wireless
Communication”**

From 17/08/2020 to 21/08/2020

Sponsored by

ISTE



Organized by
Dept. of Electronics And Communication Engineering

Chief Convener:

Dr. C. Nanjundaswamy,
Principal, Dr A.I.T, Bengaluru

Convener:

Dr. Ramapati Mishra,
Director, IET Ayodhya

Convener:

Dr. Siddaraju,
Dean (A), Dr A.I.T, Bengaluru

ISTE Coordinator:

Dr. S. Vasudev Murthy
EEE department,
Dr A.I.T, Bengaluru

Chief Coordinator:

Dr. S Ramesh
Prof. and Head of the Dept. of ECE
Dr A.I.T, Bengaluru

Coordinators:

B S Sudha, Associate Professor
Dr. Tanuja P, Assistant Professor
Mala Sinnoor, Assistant Professor
Triveni, Assistant Professor
Ripal Patel, Assistant Professor
Dept. of ECE, Dr A.I.T, Bengaluru.

Vision

To excel in education and research in Electronics and Communication Engineering and its related areas through its integrated activities.

Mission

- To provide students a strong foundation in Electronics and Communication Engineering.
- To provide high quality technical education in Electronics and Communication Engineering discipline and its related areas to meet the growing needs and challenges of industry and society.
- To be a contributor to technology through the process of skill development, value based education, research and innovation.

About the FDP

Wireless communication plays a crucial role in day to day life. Besides communication, wireless technology has become a significant part of our daily activities. The transmission of data or information from one place to another wirelessly is referred as wireless communication. This provides an exchange of data without any conductor through RF and radio signals.

For Contact:

Email: malasinnoor@dr-ait.org
Email: ripal.patel@dr-ait.org

Overview of FDP

This FDP aims to provide the participants with the focus set of research directions to reflect the latest research results on advance issue in wireless communication. In last decade the research on wireless communication has been strongly focused on development of 5G, MIMO technologies and Cognitive radio network. 5G wireless communications expect to bring both high spectrum efficiency and high energy efficiency. By activating a subset of certain communication building blocks, such as antenna, subcarrier, and time slot, index modulation is claimed to have the potential to meet the challenging 5G needs. With the use of MIMO, better system capacity performance and user experience can be achieved.

Registration Fee : Rs 100/-

Google pay mobile number: 7600128687

Registration Link:

<https://forms.gle/v2DYjApRYiyiVuEm6>

Last date for registration:

On or before 16th August 2020.

E-Certificate will be issued to the regular Attendees of the FDP after submission of feedback.



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Report on National Level Five days virtual FDP on “Research Directions in Wireless Communication” from 17/08/2020 to 21/08/2020 Sponsored by ISTE, organized by Dr. Ambedkar Institute of Technology, Bengaluru.

The Department of Electronics and Communication Engineering in association with Institute of Engineering & Technology, Dr. Rammanohar Lohia Avadh University, Ayodhya, U.P., has organized National Level Five days virtual FDP on “Research Directions in Wireless Communication” in Dr. Ambedkar Institute of Technology, Bengaluru from 17/08/2020 to 21/08/2020 Sponsored by ISTE.

The Head of the Department, Dr. S Ramesh, Professor in ECE Department, along with the Coordination of B S Sudha, Associate Professor, Dr. Tanuja P, Assistant Professor, Mala Sinnor, Assistant Professor, Triveni, Assistant Professor, Ripal Patel, Assistant Professor, Dept. of ECE, Dr A.I.T, Bengaluru, has inaugurated the event at 10 AM in ECE Seminar Hall with the inspirational thoughts and practical experiences.

Total number of participants for the FDP was 75

	No. of participants from Karnataka	No. of participants outside Karnataka
Female Participants	50	12
Male Participants	25	10
Researcher	30	18

Report on National Level Five days virtual FDP on “Research Directions in Wireless Communication” from 17/08/2020 to 21/08/2020 Sponsored by ISTE, organized by Dr. Ambedkar Institute of Technology, Bengaluru.

Report of DAY 1

Day one session started at 10.30am On 17/08/2020 in ECE seminar hall. The first day session was presented by Dr. M. H. Kori, Technology Consultant, Former Technical Director, Alcatel Lucent Technologies, Immediate Past Chairman IMAPS India.

The Session was started with brief introduction on Research direction in Wireless Communication. There were many topics covered during the session like Global Wireless Standards for WAN, MAN, LAN and PAN, Wireless Technologies in walkie-talkie, LOS/NLOS/ Troposcatter, VHF/UHF/Microwave, NFC, Body Communications. And later he briefed what are different Wirelessstandard. He also briefed on the evolution of Wireless and Mobile communication. Later he went on explaining Mobilecellular like 3G-Full-fledged WCDMA, HSDPA, WIMAX, 4G-LTE implemented and Technologies for 5G and beyond.

The three Principle dimensions in 5G- eMBB, mMTC and URLLC were discussed in detail and the challenges in research of 5G and mobile communication were also discussed with the participants.



Report on National Level Five days virtual FDP on “Research Directions in Wireless Communication” from 17/08/2020 to 21/08/2020 Sponsored by ISTE, organized by Dr. Ambedkar Institute of Technology, Bengaluru.

Report of DAY 2

Day two session started at 10.30am On 18/08/2020 in ECE seminar hall. The second day session was presented by Dr. Goutham Simha G D, Assistant Professor, Department of ECE, MIT, Manipal, Karnataka.

The session was started with basic concept and recent development of SM-MIMO and IM-OFDM. Different from the approach therein, presenter aim to establish a unifying framework for general IM techniques, and provide indepth discussions on the SE and EE issues. Note that both SM-MIMO and IM-OFDM end up using less medium resources relative to traditional MIMO-OFDM, in that only a subset of transmit antennas or frequency subcarriers are activated. Nevertheless, they tend to achieve more EE and SE that are urged by 5G.

The screenshot shows a Google Meet interface with a presentation slide. The slide title is "Index Modulation strategies for 5G Wireless Systems". The presenter is identified as "DR. GOUTHAM SIMHA G.D. ASSISTANT PROFESSOR DEPARTMENT OF ECE MIT MANIPAL." The meeting details panel on the right lists 23 participants, including Mala Srinoor, Mamatha Malvi, Meenakshi L. Rathod, and Sachin Kumar M. The Windows taskbar at the bottom shows the time as 10:17 on 18-08-2020.

Report on National Level Five days virtual FDP on “Research Directions in Wireless Communication” from 17/08/2020 to 21/08/2020 Sponsored by ISTE, organized by Dr. Ambedkar Institute of Technology, Bengaluru.

Report of DAY 3

Day three session started at 10.30am On 19/08/2020 in ECE seminar hall. The third day session was presented by Dr. Pallaviram Sure, Faculty of ECE, Ramaiah University of Applied Science, Bangalore, Karnataka

The session was started with how next-generation cellular systems will enable advanced data analysis techniques to achieve efficient service quality management and network automation. The Bayesian Network (BN) is used for the reliability prediction of throughput. The forecast is to predict future test results through parameter estimation. In the studied Bayesian network learning stage, the load of the base station, user location and moving speed all affect the user's received signal-to noise ratio (SNR) and signal interference plus noise ratio (SINR). The test result is the probability or number of times that throughput of a low-speed mobile user satisfies the threshold. The speaker also showed simulation results that the model can well infer the user's throughput under low speed movement conditions.

The screenshot shows a Google Meet interface with a presentation slide. The slide content is as follows:

- Bayesian Learning : Research Opportunities in Wireless Communications**
- FDP @ Dr. Ambedkar Institute of Technology**
- Your Welcome*
- by **Dr. Pallaviram Sure**
- Department of ECE, Faculty of Engineering and Technology,
Ramaiah University of Applied Sciences,
Email: pallaviram.sure.ec.et@msruas.ac.in

The meeting interface includes a top bar with browser tabs (Details required for Dept. inform..., Google Sheets, Meet - yhg-qbic-qba, Inbox (34) - mala.sinnoor@dr-ai, Inbox (7) - mala.avad7479@gm, WhatsApp) and a meeting details panel on the right showing 11 participants and a chat window with messages from mamatha malvi and Pallaviram Sure. The bottom of the screen shows a grid of participant avatars and a Windows taskbar at the very bottom.

Report on National Level Five days virtual FDP on “Research Directions in Wireless Communication” from 17/08/2020 to 21/08/2020 Sponsored by ISTE, organized by Dr. Ambedkar Institute of Technology, Bengaluru.

Report of DAY 4

Day fourth session started at 10.30am On 20/08/2020 in ECE seminar hall. The fourth day session was presented by Mr. Kishan Kittur, Senior Analyst, Accenture, Bangalore, Karnataka and Mr. Navven Chandra, Network Engineer, Wipro, Bangalore, Karnataka

The session started with DevOps. It is a combination of software development and information technology operations that enables businesses to deliver applications at a faster pace. It brings together development and operations teams so there are fewer redundancies in the software development process. There was a growing divide between the product’s creation and its support before the world of DevOps. The silos led to delays in production. Even after Agile methodology got customers, developers, managers, and QA working together, operations, and infrastructure wasn’t addressed. The product’s delivery and infrastructure can be seen as an extension of Agile when looking at DevOps.

Cisco security innovations provide highly secure firewall, web, and email services while helping to enable mobility and teleworking. Advanced Malware Protection (AMP), Cloud Security, Email Security, Endpoint Security, Firewalls, Network Security, Network Visibility and Segmentation.. Stop threats faster The network is the most powerful foundation for an organization's security. Cisco Stealthwatch Enterprise and Cisco ISE work together with the network to provide powerful, highly secure access; automated threat detection; and software-defined segmentation.

The screenshot shows a presentation slide titled "Why Cloud Computing?" with the SUBANTRA logo in the top right corner. The slide lists several benefits of cloud computing:

- ✓ Trade capital expense for variable expense
- ✓ Benefit from massive economies of scale
- ✓ Stop guessing about capacity
- ✓ Increase speed and agility
- ✓ Stop spending money running and maintaining data centers
- ✓ Go global in minutes

Below the list is a table with five columns: Security, Reliability, Performance, Cost Optimization, and Operations. Each column has an icon and a status indicator:

Security	Reliability	Performance	Cost Optimization	Operations
Critical Issues Identified	Minorly Degraded	Minorly Degraded	Minorly Degraded	Minorly Degraded

In the bottom right corner of the slide, there is a circular profile picture and the name "kishan kittur".

Report on National Level Five days virtual FDP on “Research Directions in Wireless Communication” from 17/08/2020 to 21/08/2020 Sponsored by ISTE, organized by Dr. Ambedkar Institute of Technology, Bengaluru.

Report of DAY 5

Day fifth session started at 10.30am On 21/08/2020 in ECE seminar hall. The fourth day session was presented by Dr. Kran Trivedi, Associate Professor, Shantilal Shah Engineering College, Gujrath, India

The session started with employment of machine learning in the compelling applications of 5G networks, including cognitive radios, massive MIMOs, femto/small cells, heterogeneous networks, smart grid, energy harvesting, device-to-device communications. Besides, Narrow Band-Internet of Things (NB-IoT) is an emerging cellular-based radio access technology, which offers a range of flexible configurations for different coverage enhancement (CE) groups to provide reliable uplink connections for massive IoT devices with diverse data traffic. To optimize the number of served IoT devices, the uplink resource configurations need to be adjusted in real-time according to the dynamic traffic, this brings the challenge of how to select the configurations at the Evolved Node B (eNB) in the multiple CE groups scenario with high-dimension and interdependency.

The image shows a presentation slide on the left and a video feed on the right. The slide is titled "AI, MACHINE LEARNING AND DEEP LEARNING" and contains the following text:

- Artificial Intelligence**
Any technique which enables computers to mimic human behaviour.
- Machine Learning**
Subset of AI techniques which use statistical methods to enable machines to improve with experiences.
- Deep Learning**
Subset of ML, which makes the computation of multi-layer neural networks feasible.

The diagram on the slide shows three concentric circles representing the relationship between these fields: the outermost circle is labeled "Artificial Intelligence", the middle circle is "Machine Learning", and the innermost circle is "Deep Learning".

The video feed on the right shows a man, identified as Kiran Trivedi, speaking from a room with a whiteboard in the background.



ABOUT THE INSTITUTE Department of E&CE.

Dr. Ambedkar Institute of Technology

Dr. Ambedkar Institute of Technology (Dr. AIT) is managed by Panchajanya Vidya Peeta Welfare Trust. The trust is managing a number of educational institutions in Bengaluru.

Dr. AIT was established in 1980 by Late Sri. M.H. Jayaprakash Narayan, our Institute is one among the 7 colleges selected in Karnataka for receiving the World Bank Assistance under Technical Education Quality Improvement Program (TEQIP-III) through Government of India. The Institute is the recipient of several grants sanctioned by AICTE, DST and VTU. The Institute is granted autonomous status by UGC WEF 2010-11. The institute is accredited by NBA, NAAC and certified by ISO.

ABOUT THE DEPARTMENT

The department came under grant-in-aid scheme of Government of Karnataka in 1992. The PG course M.Tech in VLSI Design and Embedded System was started in 2003-2004 with the intake of 18 and UG courses have been started in the year 1982 with an intake of 60 and presently UG program intake is 180.

Faculties are highly qualified and are also the members of prestigious professional bodies like IEEE, ISTE, SSI, and CSI. IEEE Students Chapter has been setup. Students have participated and won prizes in intercollegiate technical activities.

ONE WEEKS WORKSHOP

On

“Advances in Signal Processing and Robotics”

Under TEQIP-III (1.3)

27/08/2018 To 01/09/2018

REGISTRATION FORM

Name:

Designation:

Department:

Institution:

Mailing address:

Phone:

E-mail ID:

Declaration

I hereby declare that the information furnished above is true to the best of my knowledge.

Signature of the Applicant with date.

Signature of Principal/ HOD.



Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY
ಡಾ|| ಅಂಬೇಡ್ಕರ್ ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯ

Sponsored by: TEQIP-III (1.3)

**Department Of
Electronics and Communication
Engineering**

ONE WEEK WORKSHOP ON

**“ADVANCES IN SIGNAL
PROCESSING AND ROBOTICS”**

27th Aug. – 1st Sept. 2018



**Organized by:
Department of ECE,
Dr. Ambedkar Institute of Technology,
Bengaluru -560056.**

OBJECTIVES OF WORKSHOP

The aim of the workshop is to create awareness of interdisciplinary emerging fields of electronics and communication. The innovation in the field of image processing, speech processing, 3D printing, and robotics to strengthen the Institute & Industry relationship. The participants will familiar with the usage of MATLAB & Simulink for designing and modeling DSP using TMS320c6713.

OUTCOME OF WORKSHOP

- ❖ The workshop will identify future research needs in this interdisciplinary emerging field.
- ❖ To provide deep insight into Image and Audio Processing.
- ❖ To provide a forum for participants to identify the real world challenges and development of Robots with the scope to solve it.
- ❖ To provide information about future research scope and possibilities of 3D printing.
- ❖ To increase the visual modality of students towards the education and improve the skills needed to become a Robotic and Automation Expert.

WORKSHOP CONTENTS

- ❖ MATLAB interface of C6713 for audio processing and image processing.
- ❖ Design and Manufacturing of 3D printers (Brahma3 - Demo) and 3D CAD design for Additive Manufacturing.
- ❖ Rapid Prototyping using FDM and Laser cutting process.
- ❖ IoT, Robotics and Chatbots and AI (Demo: Google Assistant).

CHIEF PATRONS

- 1. Sri. S. Mariswamy,**
Honorable Chairman,
PVP Welfare Trust. Bengaluru.
- 2. Sri.A.R. KrishnaMurthy,**
Secretary/Managing trustee, PVP Welfare Trust.
Bengaluru.
- 3. Sri. P.L. Nanjundaswamy,**
Treasurer, PVP Welfare Trust. Bengaluru.
- 4. Shri. S. Shivamallu,**
Trustee, PVP Welfare Trust. Bengaluru.
- 5. Shri. Dr. M.Mahadeva,**
Trustee, PVP Welfare Trust. Bengaluru.
- 6. Shri. Dr. C. Nanjundaswamy,**
Principal, Dr. Ambedkar Institute of Technology,
Bengaluru.

PATRONS

- Dr. M.N.Hegde,** Dean (Academic), Dr.AIT.
Dr. B Ravindra, Coordinator,TEQIPIII

RESOURCE PERSON

- Mr Subham Banerjee,** Research Manager IISc.
Bengaluru.
Li2 Innovations Pvt. Ltd. Bengaluru.
EdGate Technologies Pvt Ltd, Bengaluru.

CHIEF COORDINATOR

- Dr. G.V.Jayaramiah, Prof. & HOD**
Dept. of ECE, Dr.AIT, Bengaluru.

COORDINATORS

- Dr. Mahalinga V Mandi** , Professor.
Mrs. Nagarathna H S, Assistant Professor.

ORGANIZING COMMITTEE

- Dr. Ramesh S,** Professor.
Dr. H. Umadevi , Professor.
Meenakshi L Rathod, Assistant Professor.
Girija S, Assistant Professor.
Hemalatha K N, Assistant Professor.

VENUE

Silver Jubilee Seminar Hall
Dr.AIT, Bengaluru-56

LAST DATE FOR REGISTRATION

25/08/2018

REGISTRATION FEE

Faculties from Non TEQIP Institutions: Rs. 750/-
Faculties from TEQIP Institutions: Rs 1,000/-
Number of participants: Limited to 50
Selection: First come first served basis (Only for Assistant Professor)

Who Can Attend the Workshop?

Workshop mainly focuses on Assistant Professors of Elcctronics, Electrical and Mechanical streams of Engineering and Polytechnic colleges.

Address for Communication

Dr. Mahalinga V Mandi , Professor.
mvmandi@gmail.com: 9448800637
nagarathnhs@gmail.com:9731736388



अभियांत्रिकी एवं प्रौद्योगिकी संस्थान
डॉ. राममनोहर लोहिया अवध विश्वविद्यालय, फैजाबाद (उ.प्र.)

दूरभाष - 05278 - 247686
मो. - 9415188766
फैक्स - 05278 - 248123
ई-मेल- directorietz@gmail.com

INSTITUTE OF ENGINEERING & TECHNOLOGY
Dr. RAMMANOHAR LOHIA AVADH UNIVERSITY, FAIZABAD (U.P.)

Ref - IET / Twinning / 04-2019

Date: 27-03-2019

Letter of Appreciation

Prof. Kavita Devi C S
Assistant Professor
Department of Electronics and Communication Engineering,
Dr. Ambedkar Institute of Technology, Bengaluru

Dear Sir/ Madam,

Thank you very much for delivering an informative and thoughtful lecture
**"Microwave Engineering- Scattering Matrix, Passive microwave devices
and hybrid circuits"** Course for B.Tech ECE 3rd year students and EMFT for ECE 2nd
yr. students from 25.03.2019 to 27.03.2019 at our premises.

Your skills in talking about different angles of the subject were highly appreciated by the
participants.

I once again thank you for such a wonderful lecture and hope to get a chance to hear such
lectures from you in future.

Director
(Prof. Ramapati Mishra)
DIRECTOR

Institute of Engineering & Technology
Dr. R.M.L. Awadh University
Faizabad - 224001

DR. AMBEDKAR INSTITUTE OF TECHNOLOGY
NEAR JNANA BHRATHI CAMPUS: BANGALORE-560056

AIT/TEQIP-III/112/2017-18

DATE: 01.02.2018

CIRCULAR

As per the discussion during meeting held on 30.01.2018 in the principal chamber regarding visit to mentee Institution (RML Awadh University, Faizabad, UP). The following faculty members are nominated to visit the above said Institute between 7.2.2018 to 11.2.2018

Sl.No.	Department	Name of the Faculty	Designation
1	Computer Science Dept.	Dr. Siddaraju Smt. Shylaja K R	Professor & HOD Associate Professor
2	Mechanical Engg. Dept.	Sri. Shashikanth N Sri. Chandrashekar.M	Associate Professor Asst. Professor
3	Electronics & Commn. Dept.	Dr. Jayaramiah G V Dr. Shivaputra	Professor & HOD Asst. Professor
4	Information Science & Engg.	Dr. Shylaja B S Dr. Prabha R	Professor & HOD Professor
5	Physics Department	Dr. Srinivasulu Reddy	Professor & HOD
6	Chemistry department	Dr. Veenadevi	Professor & HOD
7	Mathematics department	Dr. Nanjundappa C E	Professor & HOD
8	HSS	Dr. Shashipriya	Asst. Professor
9	NBA/NAAC Coordinator	Dr. Meenakshi M Bhat	Professor & HOD
10	Dean Academic	Dr. Hegde M N	Professor & Dean

Prakash
Coordinator

For information of all concerned

C. S. Srinivasulu Reddy
Principal
~~Principal~~

Dr. Ambedkar Institute of Technology
TEQIP-III
Bengaluru - 560 056.

Dr. Ambedkar Institute of Technology, Bengaluru-560056
Department of Electronics & Communication Engineering

A brief report on visit to mentee Institute

A brief report of visit to Mentee Institution, Institute of Engineering & Technology, Dr. Ram Manohar Lohia Avadh University, Faizabad (UP) during the from 24/9/2018 to 26/9/2018 by Dr. M V Mandi, Professor, Dr. S Ramesh, Professor and Dr. Shivaputra, Assistant Professor, Department of ECE, Dr. AIT is as follows.

The team of 12 faculty members from various departments of Dr. Ambedkar Institute of Technology were taken to IET campus at 10.00 am on 24th Sept' 2018. A meeting with the Director of IET, Dr. Ramapathi Mishra was arranged along with the HODs and team of Dr. AIT, Bangalore. Dr. Ramapathi Mishra, introduced to the twinning coordinator and respective HODs. A discussion and exchange of views with all the faculty members of ECE department about the twinning activities at the department level was done.

After the meeting classes for 1st year, 2nd year, 3rd year and Final Year UG students were engaged on the subjects Basic Electronics, Signals & Systems, Electronic Devices & Circuits, Communication Systems and Data Communication respectively.

Interaction with all students from 1st to 4th year students along with faculty members of ECE department. A brief description of Electronics and Communication Engineering in the current scenario requirement by industry in different technologies, skills required both hard and soft skills and technical skills were updated to all students. Funding of TEQIP-III program, action to be taken by both the mentor institution and mentee institution was explained in detail. Students were briefed about the curriculum pattern of ECE department of Dr AIT.

Students expressed their need and requested for guidance to update their skills in industry oriented technologies such as Embedded, VLSI Design, Digital Communication, Power Electronics, Microprocessor & Microcontroller, Image Processing, Digital Communication, MATLAB etc. Students expressed to provide more exposure to the opportunities of jobs and higher studies. They are very keen to learn all the new industry related technologies.

The lectures for the same subjects were continued for the subsequent days i.e., on 25th Sept' 2018 and 26th Sept' 2018. We also visited Computer Centre, Library and other general facilities and observed that there is improvement in the campus compared to previous visit.

Finally to conclude, we express our thanks to the management and staff of Dr RML University, Faizabad for their wonderful hospitality and support during our visit. We also

thank Management, Principal, Dean and TEQIP Coordinator for their support in organizing this visit.

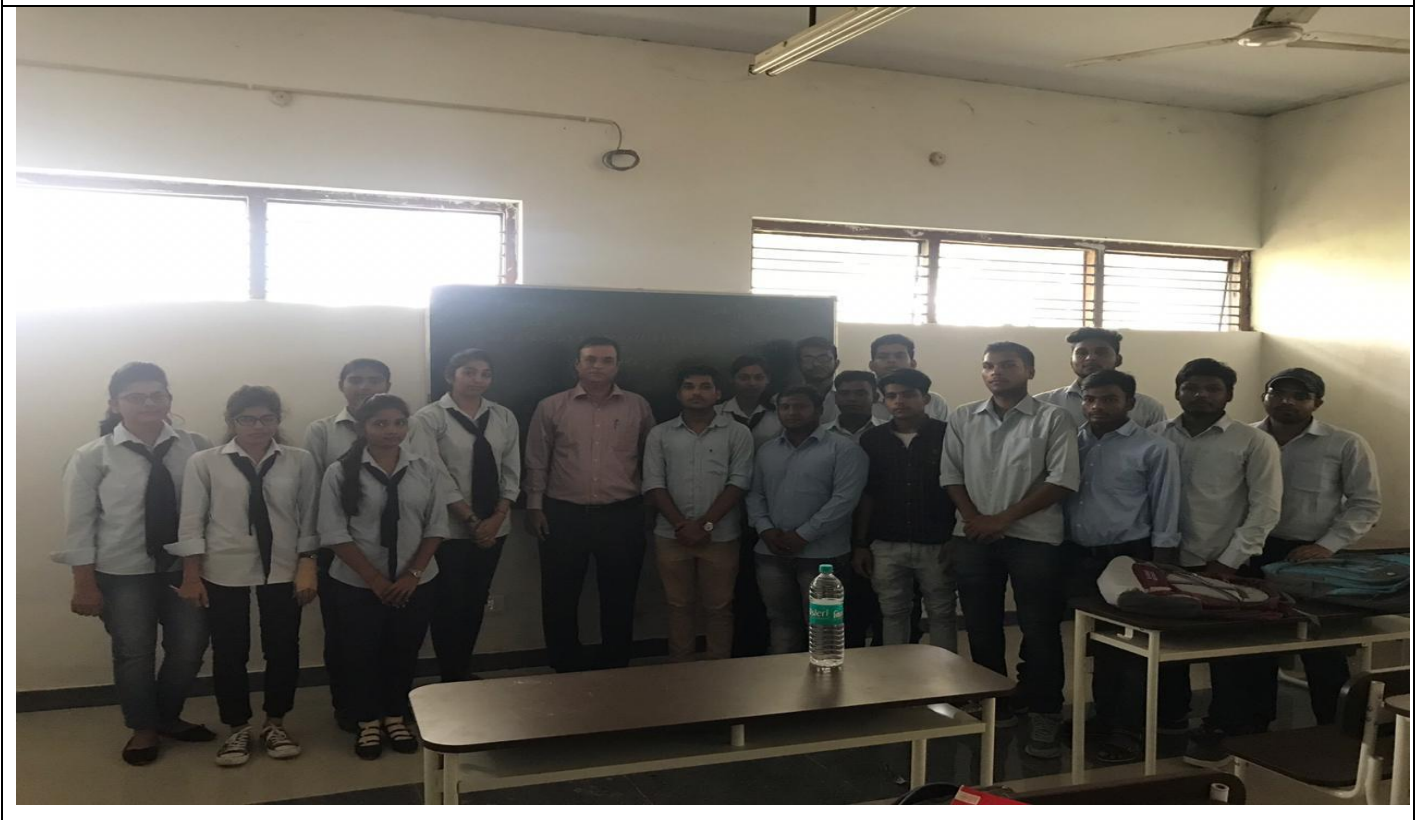
Some of the photos taken at IET, Faizabad



Computer Centre











1. Dr. MAHALINGA V. MANDI

2. Dr. RAMESH S

3. Dr. SHIVAPUTRA



Dr. Ambedkar Institute of Technology
Electronics and communication Department

The enclosed documents are valid and verified.

A handwritten signature in blue ink, appearing to read 'J. S. ...', with a long horizontal line extending to the right.

HOD

ECE Department

HOD

Dept. of Electronics and Communication Engg.

Dr. Ambedkar Institute of Technology

Bengaluru - 560056



Panchajanya Vidya Peetha Welfare Trust (R)
Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY
(An Autonomous Institution affiliated to VTU, Belagavi)
BDA Outer Ring Road, Mallathalli, Bengaluru-56&

NPIU
National Project Implementation Unit

REPORT

TEQIP – III Sponsored
15 Days Online Future Skill Training Program For Students on
“Artificial Intelligence and Machine Learning”
From
1st to 18th September 2021

Organized by Department of Computer Science and Engineering and Department of Electronics and Communication, Dr. AIT

Fifteen Day Future Skill Training Program For Students on “**Artificial Intelligence and Machine Learning**” was organized for Students of Final and Pre Final year students of Dr AIT from 1st -18th September 2021, with Chief Coordination by Dr. Siddaraju, Prof. and Head, Department of CSE and Dr. Ramesh S, Prof. and Head, Dept. of ECE and coordinated by **Srinivas A. H**, Associate Professor, Dept. of CSE, **Swamy T. N**, Assistant Professor, Dept. of ECE, **Shalini N**, Assistant Professor, Dept. of CSE.

Around 83 participants had registered for this program with **14 Students from CSE, 68 students from ECE and 01 from EIE of Dr. Ambedkar Institute of Technology**. Resource person were **Srinivas A. H**, Associate Professor, Dept. of CSE, **Swamy T. N**, Assistant Professor, Dept. of ECE, **Shalini N**, Assistant Professor, Dept. of CSE, Dr. AIT. They have enormous teaching experience in the field of Image Processing, Artificial Intelligence-Machine Learning, VLSI. Also published many research papers in reputed indexed Journals. Also trained faculties and students in various colleges.

Inaugural Session started with Welcome address by Shalini N, Coordinator, Asst. Professor Dept. of CSE. Swamy T. N., Coordinator & Resource Person, Asst. Professor Dept. of ECE explained the Course contents and learning objectives to participants followed by HOD’s Address to participants. TEQIP-3 Coordinator, Dr. Mahalinga V Mandi, addressed the Participants and mentioned the importance of the course. Also participants were informed that

Organized by Dept. of CSE and ECE, Dr.AIT, Bengaluru from 1st – 18th September 2021.

test will be conducted by NASSCOM. And finally inaugural session ended with Vote of Thanks by Srinivas, Coordinator, and Associate. Professor Dept. of CSE.

Session was followed by a Valedictory Function which was attended by HOD, Dr. Ramesh S, faculty members of ECE Department and participants, where in the Resource Person briefed about topics covered and outcomes, HoD addressed the participants, and he insisted coordinators to share the recorded video for all participants followed by Feedback by participants and Vote of Thanks By Srinivas A. H, Coordinator, Associate. Professor, Dept. of CSE. Test was conducted using Google forms. Certificates were mailed to participants on providing or filling the Feedback Form and taking test. 15 days future skill training program was successfully completed.

Dr. Ambedkar Institute of Technology
An Autonomous Institution, Aided by Government of Karnataka, Accredited by NAAC and Affiliated to VTU, Belagavi
Outer Ring Road, Mallathahalli, Bengaluru 560056.
TEQIP-III Sponsored

15 Days Online Future Skill Training for Students
on
“Artificial Intelligence and Machine Learning”
Date: 01/09/2021 to 18/09/2021
Organized by
Department of Electronics and Communication Engineering
Department of Computer Science and Engineering

Coordinators: Srinivas A. H, Swamy T.N, Shalini N

Coordinators

1. Srinivas A. H,
2. Swamy T. N
3. Shalini N

Organized by Dept. of CSE and ECE, Dr.AIT, Bengaluru from 1st – 18th September 2021.

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

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BDA Outer Ring Road, Mallathalli, Bengaluru-56

Registered Students list

TEQIP-3 Sponsored Future Skill Training Program on Artificial Intelligence and Machine Learning

From 1st to 18th September 2021

S L N O	Student Name	USN	Dep art men t	Gender	Email	Cate gory
1	ANUPAMA A S	1DA18CS019	CSE	Female	anupamaas12@gmail.com	OBC
2	SAHANA K.S	1DA19EC122	ECE	Female	sahanasanju2002@gmail.com	OBC
3	LIKHITH D	1DA18EC075	ECE	Male	hiregowjalikhith@gmail.com	OBC
4	VAISHALI B	1DA18CS177	CSE	Female	vaishu0313@gmail.com	OBC
5	TEGGINAMATHA DA BASAVANANDA	1DA20EC423	ECE	Male	cscvle007@gmail.com	GM
6	PADMASHREE A	1DA19EC180	ECE	Female	padmashree.a145@gmail.com	GM
7	SUSHMITHA. A	1DA19EC153	ECE	Female	1da19ec153.ec@drait.edu.in	SC
8	ROJA K S	1DA19EC119	ECE	Female	rojaks2001@gmail.com	OBC
9	ANUSHA H	1DA19EC016	ECE	Female	anushah23042001@gmail.com	OBC
10	BRUNDA N MAILI	1DA18CS033	CSE	Female	brundanm99@gmail.com	OBC
11	PUSHPA P	1DA18EC103	ECE	Female	pushpanjali9779@gmail.com	SC
12	YASWANTH MADUGUNDU	1DA19EC074	ECE	Male	1da19ec074.ec@drait.edu.in	GM
13	ANJALI DEVI N	1DA19EC015	ECE	Female	ad4069400@gmail.com	OBC
14	LIPIKA KRISHNA. M	1DA19EC073	ECE	Female	1da19ec073.ec@drait.edu.in	OBC
15	JAMALUDDIN HAMZAH ALI	1DA18EC055	ECE	Male	jamaluddin2509@gmail.com	OBC
16	NITEESHMURTHY BHAT	1DA18CS104	CSE	Male	niteeshn158227@gmail.com	GM
17	Y AMISHA	1DA19EC170	ECE	Female	aamisha813@gmail.com	OBC
18	YASEEN DASAGEERSAB NADHAF	1DA20EC427	ECE	Male	yaseennadaf216@gmail.com	OBC
19	VIJAYLAKSHMI H J	1DA19EC164	ECE	Female	vijaylakshmihj67@gmail.com	OBC
20	SUMANTH M N	1DA19EC150	ECE	Male	sumanthmn7102001@gmail.com	GM
21	SHREYA.C	1DA19EC136	ECE	Female	shreyachandregowda@gmail.com	OBC
22	RESHMA D	1DA18EC111	ECE	Female	1da18ec111.ec@drait.edu.in	OBC

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Registered Students list

TEQIP-3 Sponsored Future Skill Training Program on Artificial Intelligence and Machine Learning

From 1st to 18th September 2021

23	MAHEBOOB BAIG	1DA20EC410	ECE	Male	maheboobbaig25@gmail.com	OBC
24	PUNEETH N	1DA19EC185	ECE	Male	punithn2001@gmail.com	ST
25	ARADHANA.S	1DA20EC402	ECE	Male	1da20ec430@drait.edu.in	SC
26	KULAL UTTAM RAJENDRA	1DA18EC066	ECE	Male	uthamrkulal@gmail.com	OBC
27	AISHWARYA R D	1DA18CS010	CSE	Female	desaiaishwaryar37@gmail.com	GM
28	DARSHAN V P	1DA19EC031	ECE	Male	1da19ec031.ec@drait.edu.in	OBC
29	BHAVANA.T	1DA19EC024	ECE	Female	bhavubhavana772@gmail.com	SC
30	RUCHITHA B P	1DA19EC182	ECE	Female	ruchithabp@gmail.com	OBC
31	MOHAMMED OWAIS GOGI	1DA18CS087	CSE	Male	mdowais10160@gmail.com	OBC
32	ANITHA G S	1DA18EC014	ECE	Female	anithags086@gmail.com	OBC
33	LIKITH R	1DA18CS073	CSE	Male	1da18cs073.cs@drait.edu.in	OBC
34	PADMA SHREE B H	1DA20EC413	ECE	Female	helloiam112000@gmail.com	SC
35	NIKHIL V K	1DA18EC090	ECE	Male	nikhilvk888@gmail.com	OBC
36	KOWSALYA H T	1DA19EC416	ECE	Female	kowsalyaht23696@gmail.com	OBC
37	UPENDRA	1DA19EC157	ECE	Male	uppi1718@gmail.com	SC
38	VIJAYBHASKAR T	1DA19EC163	ECE	Male	vijayrebel9919@gmail.com	OBC
39	PAVITHRA.S	1DA19EC097	ECE	Female	1da19ec097.ec@drait.edu.in	GM
40	MANJUNATHA GOWDA N	1DA18EC078	ECE	Male	manjugowda2906@gmail.com	OBC
41	KAVYASHREE R	1DA19EC065	ECE	Female	1da19ec065.ec@drait.edu.in	OBC
42	VAIJINATH	1DA19EC160	ECE	Male	vaijinathmalge929@gmail.com	ST
43	ANISH.N	1DA18CS016	CSE	Male	anishfeb29@gmail.com	GM
44	KARTHIK BHAT Y	1DA18EC060	ECE	Male	karthikbhaty@gmail.com	GM
45	CHAITHRA HG	1DA19EC028	ECE	Female	1da19ec028.ec@drait.edu.in	SC
46	LIKITH KUMAR GOWDA	1DA18EC076	ECE	Male	likithgangaiah@gmail.com	OBC
47	YASEEN ABDULAJEEJ NADAF	1DA18EI043	EIE	Male	yaseennadafterth@gmail.com	OBC
48	RADHIKA R	1DA19EC426	ECE	Female	1da19ec426.ec@drait.edu.in	OBC
49	KAVITA	1DA18EC061	ECE	Female	kavitark2000@gmail.com	OBC
50	PREMA	1DA19EC106	ECE	Female	premapatil186@gmail.com	GM

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BDA Outer Ring Road, Mallathalli, Bengaluru-56

Registered Students list

TEQIP-3 Sponsored Future Skill Training Program on Artificial Intelligence and Machine Learning

From 1st to 18th September 2021

	HANAMANTHRAY PATIL					
51	NAYANA M	1DA19EC088	ECE	Female	1da19ec088.ec@drait.edu.in	OBC
52	VANLALRINCHHANNA	1DA19EC161	ECE	Male	chhana4th@gmail.com	ST
53	VIJAYALAKSHMI P	1DA19EC437	ECE	Female	vijayalakshmip067@gmail.com	OBC
54	SHRUTI CHANNABASAPPA LAMANI	1DA19CS422	CSE	Female	shrutilamani1234@gmail.com	SC
55	MOHNISH S	1DA18EC081	ECE	Male	mohnishshivanand@gmail.com	OBC
56	ASHWINI H K	1DA19EC020	ECE	Female	ashwiniashwini58377@gmail.com	OBC
57	JEEVITHA K	1DA18EC058	ECE	Female	jeevithakumarswamy284@gmail.com	OBC
58	TEJAS R	1DA20EC424	ECE	Male	tejaskumar7070@gmail.com	GM
59	SUMANTH S R	1DA19EC184	ECE	Male	sumanthsr2001@gmail.com	GM
60	V RAHUL	1DA18CS176	CSE	Male	rahulvenkat40@gmail.com	GM
61	MUNIKRISHNA V	1DA18EC083	ECE	Male	munikrishna1823@gmail.com	SC
62	POOJA H B	1DA19EC098	ECE	Female	poojahb2002@gmail.com	SC
63	GAGANA LY	1DA20EC406	ECE	Female	yogilv7@gmail.com	OBC
64	RAKSHITH S	1DA18EC107	ECE	Male	1da18ec107.ec@drait.edu.in	GM
65	NANDITHA A	1DA19EC087	ECE	Female	1da19ec087.ec@drait.edu.in	OBC
66	ARCHANA K P	1DA18EC022	ECE	Female	1da18ec022.ec@drait.edu.in	OBC
67	HARIPRIYA JORAPUR	1DA18CS055	CSE	Female	haripriya.jorapur@gmail.com	GM
68	LAKSHMI JANAKI K	1DA18EC069	ECE	Female	lakshmijanaki1@gmail.com	GM
69	ASHA IRA NAIK	1DA20EC403	ECE	Female	ashanaik099@gmail.com	OBC
70	NIRANJAN KUMAR R	1DA18EC091	ECE	Male	niranjan982.r@gmail.com	SC
71	VAISHNAVI H A	1DA18CS178	CSE	Female	vaishnaviarun026@gmail.com	GM
72	ANUSHREE H K	1DA18EC021	ECE	Female	anushreehkanukgouda079@gmail.com	OBC
73	NEELAMBIKA	1DA18CS097	CSE	Female	neelambikas819@gmail.com	OBC
74	SUSHMITHA K R	1DA18CS167	CSE	Female	sushmithakr30@gmail.com	ST

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(An Autonomous Institution affiliated to VTU, Belagavi)

BDA Outer Ring Road, Mallathalli, Bengaluru-56

Registered Students list

TEQIP-3 Sponsored Future Skill Training Program on Artificial Intelligence and Machine Learning

From 1st to 18th September 2021

75	ANEES FATHIMA	1DA19EC014	ECE	Female	aneessana656@gmail.com	GM
76	NIDHI S RAIKAR	1DA19EC089	ECE	Female	nidhisraikar28@gmail.com	OBC
77	HARIPRIYA R	1DA19EC046	ECE	Female	1da19ec046.ec@drait.edu.in	OBC
78	NANDINI DEY	1DA18EC086	ECE	Female	deynandini2010@gmail.com	GM
79	KAVYA M K	1DA19EC064	ECE	Female	1da19ec064.ec@drait.edu.in	OBC
80	RAMYA B S	1DA18EC109	ECE	Female	ramya.b.s.289@gmail.com	SC
81	SUPARNA BK	1DA19EC151	ECE	Female	suparnagowda22@gmail.com	OBC
82	SNEHA G R	1DA19EC141	ECE	Female	snehagowda887@gmail.com	OBC
83	SHASHANK J	1DA18EC123	ECE	Male	shashijteddy@gmail.com	GM

Coordinators

1. Srinivas A. H,
2. Swamy T. N
3. Shalini N

About the Organization

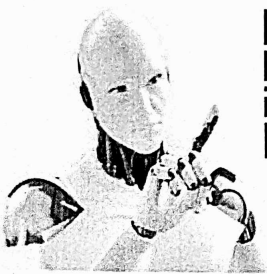
Dr. Ambedkar Institute of Technology is managed by Panchajanya Vidya Peetha Welfare Trust (Regd.) was established by Late Sri. M.H.Jayprakash Narayan in 1979. The institute is affiliated to Visvesvaraya Technological University (VTU), Belgaum and is accredited by AICTE. The institution has been accredited by National Board of Accreditation (NBA), New Delhi. The institute has been accredited by NAAC with 'A' Grade and is mentee institute for Institution of Engineering & Technology. Dr. Ram Manohar Lohia Avad University, Faizabad, Uttar Pradesh. Most of the programmes are accredited by NBA. Apart from 10 disciplines of Engineering, the institute also offers MCA, MBA and M. Tech. Programs in various specializations. The institute is one among the 14 colleges selected for receiving the World Bank assistance under the Technical Education Quality Improvement Programme (TEQIP) through the government of India.

Click below link

<https://forms.gie/Na5uCRwCvrfDZ6da8>

OR

Scan this QR code for registration



About the Training

“ Imparts knowledge about basics related to industrial robots for their control, design and application in robotics & automation industries, which is one of the expected areas to have huge employment potential for engineering graduates in coming years ”

Training Objectives

- + Design of Robots using mathematical modeling
- + Development of mobile robots using Arduino
- + Use of Open-source Softwares

Training Outcomes

- + Perform kinematic and dynamic analyses with simulation
- + Design control laws for a simple robot.
- + Integrate mechanical & electrical hardware for a real prototype of robotic device.
- + Select a robotic system for given industrial application.

Training Coordinators

- Mr. Mohan Kumar V, Asst. Prof., Dept. of ECE
ph:+91 8884660123
- Mrs. Kesthara V, Asst. Prof., Dept. of ECE
- Mr. Mudhusudhan, Asst. Prof., Dept. of ECE
- Mr. Anand H D, Asst. Prof., Dept. of ECE
- Mrs. Vidyashree C, Asst. Prof., Dept. of ECE



Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

BDA Outer Ring Road, Mallathalli, Bengaluru-56



NPIU

National Project Implementation Unit

TEQIP Assisted
Online Student Training on
Future Skill Technologies

**ROBOTICS
&
AUTOMATION**

July 16th – September 30th 2020



Instructions for participants:

- ❖ The training of students shall be conducted during July – Sept 2020.
- ❖ Students may be allowed for necessary lab work / hands-on practice after lockdown in batches of appropriate size while following strict safety protocols and practicing social distancing.
- ❖ The students shall undergo formative progress review test conducted by NASSCOM midway during the training program.
- ❖ Post training assessment and certification shall be conducted through SSC NASSCOM after the training.

Topics to be Covered:

1. Introduction to Robotics
2. Robot Kinematics and Dynamics
3. Sensors
4. Robot Actuation Systems
5. Robot Control
6. Control Hardware and Interfacing
7. AI in Robotics.
8. Robotics and Automation for Industry 4.0
9. Robot safety and social robotics.
- 10, *Practical sessions will be on Robot design & simulation open source softwares*

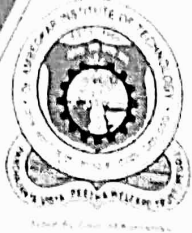
Pre-requisites:

- Calculus and linear algebra
- Basic Electrical Engineering
- Control System
- Embedded System & HDL

Who can Register?

This is an Interdisciplinary course, so students from all branches of final semester can register

- ❖ *The course will be conducted for 2 hours daily form Monday to Friday.*
- ❖ *Proctored exam will be conducted during midway (2nd week of august) and at the end of course*
- ❖ *Sessions will be conducted through online mode and learning management system(LMS)*
- ❖ *Assignment and practice quiz will be given after every session*
- ❖ *Register as soon as possible as the number of participants is limited*



Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

BDA Outer Ring Road, Mallathalli, Bengaluru-56

Cordial Invites

all Deans, HODs, Staff and Students of Dr. AIT

NPIU

National Project Implementation Unit



for Inauguration of
TEQIP Assisted
Online Student Training on
Future Skill Technology

ROBOTICS
&
AUTOMATION

22/07/2020
10.30 AM

**Keynote
Address by**

Dr. Pushparaj Mani Pathak
Professor, Mechanical & Industrial
Engineering Department, IIT Roorkee



Program Schedule
(10:30 am to 12 noon)

**Brief Introduction About
Training Program**

In the Gracious Presence of

Dr. Nanjundaswamy C., Principal, Dr. AIT

Dr. Siddaraju, Dean(Academic), Dr. AIT

Dr. Mahalinga V. Mandi, TEQIP Coordinator, Dr. AIT

**Principal's Address
to students**

Course Coordinators:

Mr. Mohan Kumar V, Asst. Prof., Dept. of ECE

Mrs. Kasthara V, Asst. Prof., Dept. of ECE

Mr. Mudhusudhan, Asst. Prof., Dept. of ECE

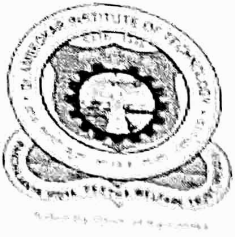
Mr. Anand H D, Asst. Prof., Dept. of ECE

Mrs. Vidyashree C, Asst. Prof., Dept. of ECE

**Key Note
Address**



Scan above code/join Google Meet link: <https://meet.google.com/dto-nkyd-drq?hs=122&authuser=0>



Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

BDA Outer Ring Road, Mallathalli, Bengaluru-56
Dept. of Electronics and Communication Engineering

TEQIP Assisted

Online Student Training on Future Skill Technologies

“Robotics & Automation”

22nd July 2020 to 17th January 2021

NPIU

National Project Implementation Unit

DETAIL REPORT

TEQIP Assisted Online Student Training on Future Skill Technologies **“Robotics & Automation”** was organized for Interested Students of all branches of Dr. AIT of all branches from 22/07/2020 to 17/01/2021 coordinated by **Mohan Kumar V, Kesthara V, Madhusudhan M, Anand H D and Vidyashree C**, Assistant Professors, Dept. of ECE, Dr. AIT

The participants for this training program were 50 Students from different branches like Computer Science and Engineering, Electronics and Communication Engineering, Electronics and Instrumentation Engineering, Information Science and Engineering and Mechanical Engineering of Dr. AIT, Bengaluru.

Resource persons were **Mohan Kumar V**, Assistant Professor, Dept. of ECE, Dr. AIT who was trained at IIT Roorkee, **Kesthara V, Madhusudhan M and Anand H D**, Assistant Professors, Dept. of ECE, Dr. AIT who were trained at IIT Madras and **Vidyashree C**, Assistant Professor, Dept. of ECE, Dr. AIT who was trained at IIT-Gurg

The training program was formally inaugurated in Online mode on 22nd July 2020 in the presence of **Dr. Mahalinga V Mandi**, Dean (Planning & Development), TEQIP III coordinator Dr A.I.T, Coordinators and Participants.

The inaugural session also included Key note address by **Dr. Pushparaj Mani Pathak**, Professor, Mechanical & Industrial Engineering Department, IIT Roorkee where in participants were provided the introduction to Robotics and Automation, there configurations and Robotic applications.

The successive session was handled by Mohan Kumar V, Assistant Professor, Dept. of ECE, Dr. AIT, who provided the overview of course and details of successive sessions regularly handled by respective training faculty are as follow:

Session No.	Date & Time	Session Handled by	Topics covered
1.	23.07.2020 11:30 AM- 12:30 PM	Mohankumar V.	Introduction Part-I
2.	23.07.2020 12:30 PM- 1:30 PM	Anand H D	Introduction part-II
3.	24.07.2020 11:30 AM- 12:30 PM	Anand H D	Introduction part-III
4.	24.07.2020 12:30 PM - 01:30 PM		
5.	25.07.2020 10:00 AM - 11:00 AM	Mohankumar V.	Spatial Descriptions
6.	25.07.2020 11:00 AM- 12:00 PM		
7.	26.07.2020 10:00 AM- 11:00 PM	Mohankumar V.	Spatial Transformation
8.	26.07.2020 11:00 AM - 12:00 PM		
9.	27.07.2020 05:00 PM - 06:00 PM	Mohankumar V.	Representation of Angles
10.	27.07.2020 06:00 PM - 07:00 PM		
11.	28.07.2020 10:30 AM - 11:30 AM	Vidyashree C	Forward kinematics
12.	28.07.2020 11:30 AM - 12:30 PM		
13.	29.07.2020 05:00 PM - 06:00 PM	Vidyashree C	Forward kinematics
14.	29.07.2020 06:00 PM - 07:00 PM		
15.	02.08.2020 09:30 AM - 10:30 AM	Vidyashree C	Inverse kinematics
16.	02.08.2020 10:30 AM - 11:30 AM		
17.	03.08.2020 09:00 AM - 10:00 AM	Vidyashree C	Inverse kinematics
18.	03.08.2020 10:00 AM - 11:00 AM		
19.	04.08.2020 10:30 AM - 11:30 AM	Vidyashree C	Inverse kinematics
20.	04.08.2020 11:30 AM - 12:30 PM		
21.	06.08.2020 05:00 PM - 06:00 PM	Vidyashree C	Jacobian

44.	23.08.2020 10:00 AM- 11:00 AM		
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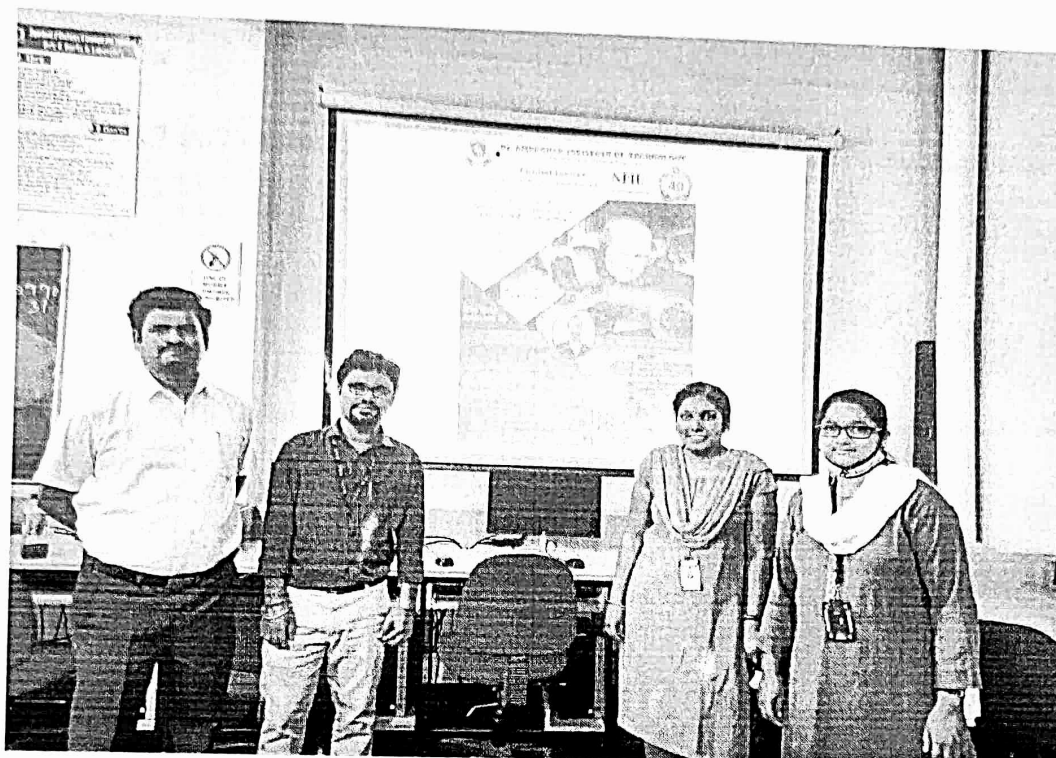
Mid-Training assessment of students on Future Skill technologies through NASSCOM SSC was carried out on 24th August 2020 and around 40 participants appeared for the exam.

Then respective training faculty continued to handle sessions, whose details are as follow

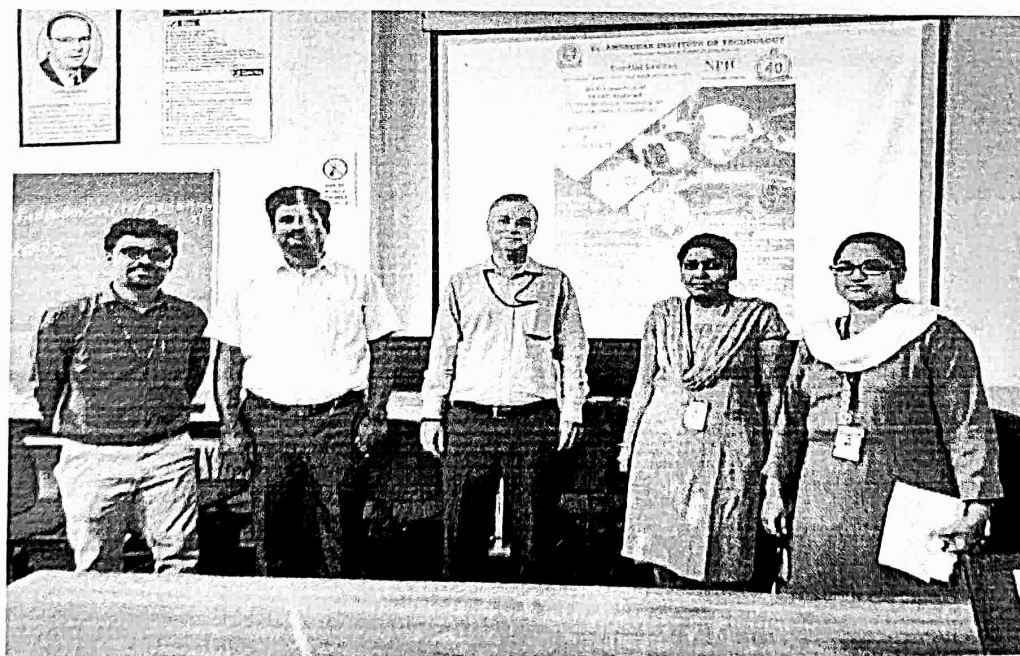
Session No.	Date & Time	Session Handled by	Topics covered
45.	25.08.2020 05:00 PM- 06:00 PM	Kesthara V	Linear Control of Manipulators Part-II Non-Linear Control of Manipulators Part-1
46.	25.08.2020 06:00 PM- 07:00 PM		
47.	26.08.2020 05:00 PM- 06:00 PM	Kesthara V	Non-Linear Control of Manipulators Part-II
48.	26.08.2020 06:00 PM- 07:00 PM		
49.	27.08.2020 05:00 PM- 06:00 PM	Kesthara V	Linear Control of Manipulators Part-II Non-Linear Control of Manipulators Part-1
50.	27.08.2020 06:00 PM- 07:00 PM		
51.	29.08.2020 05:00 PM- 06:00 PM	Kesthara V	Non-Linear Control of Manipulators Part-II
52.	29.08.2020 06:00 PM- 07:00 PM		
53.	03-09-2020 05:00 PM- 06:00 PM	Madhusudhan M	Robotics and Automation for Industry 4.0
54.	03-09-2020 06:00 PM- 07:00 PM		
55.	05-09-2020 05:00 PM - 06:00 PM	Anand H D	Embedded Systems
56.	05-09-2020 06:00 PM - 07:00 PM		
57.	06-09-2020 03:00 PM- 05:00 PM	Madhusudhan M	Robotics safety and social Robots
58.	06-09-2020 04:00 PM- 05:00 PM		
59.	03-01-2021 4:00 PM- 5:00 PM	Anand H D	Artificial Intelligence
60.	03-01-2021 6:00 PM- 7:00 PM		

22.	06.08.2020 06:00 PM - 07:00 PM		
23.	07.08.2020 09:30 AM - 10:30 AM	Vidyashree C	Dynamics
24.	07.08.2020 10:30 AM - 11:30 AM		
25.	08.08.2020 10:30 AM - 11:30 AM	Vidyashree C	Dynamics
26.	08.08.2020 11:30 AM - 12:30 PM		
27.	09.08.2020 10:30 AM - 11:30 AM	Vidyashree C	Dynamics
28.	09.08.2020 11:30 AM - 12:30 PM		
29.	10-08-2020 05:00 PM - 06:00 PM	Anand H D	Sensors-I
30.	10-08-2020 06:00 PM - 07:00 PM		
31.	12-08-2020 05:00 PM- 06:00 PM	Madhusudhan M	Actuators
32.	12-08-2020 06:00 PM - 07:00 PM		
33.	13-08-2020 05:00 PM - 06:00 PM	Anand H D	Sensors-II
34.	13-08-2020 06:00 PM - 07:00 PM		
35.	16-08-2020 05:00 PM- 06:00 PM	Madhusudhan M	Problems on Actuators
36.	16-08-2020 06:00 PM- 07:00 PM		
37.	17-08-2020 05:00 PM- 06:00 PM	Madhusudhan M	Manipulator Mechanism Design
38.	17-08-2020 06:00 PM- 07:00 PM		
39.	18-08-2020 05:00 PM- 06:00 PM	Madhusudhan M	Manipulator Mechanism Design
40.	18-08-2020 06:00 PM- 07:00 PM		
41.	20-08-2020 05:00 PM- 06:00 PM	Kesthara V	Linear Control of Manipulators Part-1
42.	20-08-2020 06:00 PM- 07:00 PM		
43.	23.08.2020 09:00 AM- 10:00 AM	Mohankumar V.	Revision of module-1

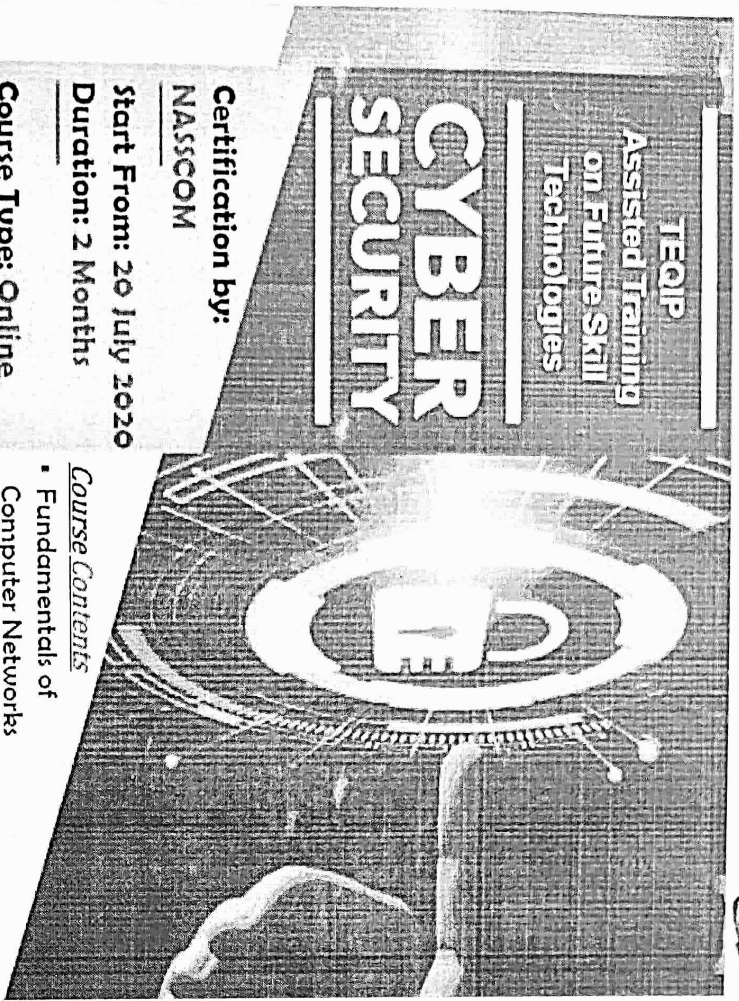
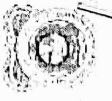
Finally on 17th January 2021 Post-training assessment of students was conducted through NASSCOM SSC and 37 participants attended the exam, with this training program was successfully completed.



Pic. 1: Coordinators/ Faculty Trainers of Robotics and Automation Training Program during Inauguration of Training Program



Pic. 2: Coordinators/ Faculty Trainers of Robotics and Automation Training Program with Dr. Mahalinga V Mandi, Dean (Planning & Development), TEQIP III coordinator Dr A.I.T during Inauguration of Training Program



Certification by:
NASSCOM

Start From: 20 July 2020

Duration: 2 Months

Course Type: Online Webinar

Scan and Register



Post training assessment and certification shall be conducted through SSC NASSCOM

TEQIP-3

Course Contents

- Fundamentals of Computer Networks
- Network Layers, Protocols
- Cyber Security Vulnerabilities
- Cryptography, Firewalls and Malware
- Cyber Security management
- Web Services and Cyber Laws

Course Objectives

- To impart necessary knowledge to establish a solid understanding of the Cyber Security environment
- To provide opportunities of academic pursuits to students to improve their knowledge as a life-long activity

Chief Convener

Dr. C Narjundaswamy

Principal, Dr. AIT, Bangalore.

Convener

Dr. Mahalinga V Mandi

Dean (Planning and Development) and
TEQIP-III Coordinator, Dr. AIT.

Course Facilitator and Coordinator

Dr. Yamuna Devi, Asso. Prof./HOD, TE., Dr. AIT, 9886716525

Dr. Mary Cherian, Prof. CSE., Dr. AIT, 9986885560

Ms. Nithyashree S, Asst. Prof. ECE., Dr. AIT, 812396980

Ms. Spoothi P A, Asst. Prof. ECE., Dr. AIT, 9035286400

Mr. Sujay S N, Asst. Prof. ECE., Dr. AIT, 9886991995

Course Outcomes

- Demonstrate understanding of basic networking and network security concepts needed for cyber security.
- Apply the cyber security knowledge to build models to prevent cyber attacks.
- Build an understanding of cyber laws and cyber security management.

Scan
and Register



Registration Fee:

✓ FREE for students of Dr. AIT.

Who can participate?

✓ Students from any branch of Engineering
can participate in the course

<https://forms.gle/y05fn3mg3bhGDXMGA>



Dr. Ambedkar Institute of Technology

Details of Registered Students for Cyber Security Course

Course: Cyber Security

Sl.No	Email	NAME	USN	DEPARTMENT	SEMESTER	CONTACT NO.	GENDER	DATE OF BIRTH
1	aditya.monika55@gmail.com	Aditya Tiwari	IDA17IS002	Information Science Engineering	BE 6th sem	9702556165	Male	5/5/1999
2	akshayakumar1811@gmail.com	Akshaya K	IDA17CS010	Computer Science Engineering	BE 6th sem	8310103993	Female	8/24/1999
3	mayuramogha19@dr-ait.org	Amogha S	IDA17CS013	Computer Science Engineering	BE 6th sem	8951328715	Male	3/1/1999
4	anagha.melepat@gmail.com	Anagha Ajoykumar	IDA17CS014	Computer Science Engineering	BE 6th sem	8277095695	Female	9/20/1999
5	anandanagha2@gmail.com	Anagha Anand	IDA17EC011	Electronics and Communication Engineering	BE 6th sem	8073643214	Female	9/1/1999
6	anupama1202@gmail.com	ANUPAMA A S	IDA18CS019	Computer Science Engineering	BE 4th sem	938068630	Female	2/12/2000
7	anushamg511@gmail.com	Anusha.M.G	IDA19CS016	Computer Science Engineering	BE 2nd Sem	8971454199	Female	1/5/2001
8	chaitanyajyu@gmail.com	Chaitanya J Umashankar	IDA19IS007	Information Science Engineering	BE 2nd Sem	9591185729	Female	9/6/2001
9	chandanak157@gmail.com	Chandana K	IDA17CS034	Computer Science Engineering	BE 6th sem	9.1866E+11	Female	4/15/1999
10	srjangowda66@gmail.com	D M SRUJAN GOWDA	IDA17EC137	Electronics and Communication Engineering	BE 6th sem	6362881850	Male	5/10/1999
11	darshancf58@gmail.com	Darshan C R	IDA18EC410	Electronics and Communication Engineering	BE 6th sem	9964182058 (or)	Male	3/2/2000
12	darshithsuresh2001@gmail.com	Darshith.S	IDA19IS010	Information Science Engineering	BE 2nd Sem	7676656210	Male	10/31/2001
13	deepaksr.dsr@gmail.com	Deepak S R	IDA18CS044	Computer Science Engineering	BE 4th Sem	7349546760	Male	4/24/2000
14	surendrasindhu7@gmail.com	JAYAM SURENDRA SINDHU	IDA17CS058	Computer Science Engineering	BE 6th sem	9535577222	Male	7/23/2000
15	karikkorhaille25@gmail.com	Karrik	IDA18CS062	Computer Science Engineering	BE 4th Sem	9182766754	Female	11/25/2000
16	kavilprabhuv1999@gmail.com	Kavita Nagaraj Prabhuv	IDA18TE015	Telecommunication Engineering	BE 4th Sem	8296160890	Male	9/1/1999
17	Kavatejas1997@gmail.com	KAVYA H C	IDA18EC415	Electronics and Communication Engineering	BE 6th sem	9986242310	Female	6/1/1997
18	kavyapn789@gmail.com	Kavya PN	IDA18EC416	Electronics and Communication Engineering	BE 6th sem	9483685748	Female	8/8/1999
19	kavya864@gmail.com	Kavya. V	IDA19IS016	Information Science Engineering	BE 2nd Sem	7259632847	Female	11/16/2000
20	kirankumarb007@gmail.com	Kirankumar B M	1da18ec417	Electronics and Communication Engineering	BE 6th sem	9663647570	Male	10/23/1999
21	lavanya.venkatesh1999@gmail.com	Lavanya V	IDA18CS413	Computer Science Engineering	BE 6th sem	8050248210	Female	6/10/1995
22	mlkeshaz2@gmail.com	Lokeshza	IDA19EI407	Electronics and Instrumentation Engineering	BE 4th Sem	8151809213	Male	6/11/1999
23	manoigowdego@gmail.com	Manoj R	IDA17EC076	Electronics and Communication Engineering	BE 6th sem	9035229281	Male	5/22/1999
24	muskansultananamussu2006@gmail.com	Muskan sultana	IDA19IS022	Information Science Engineering	BE 2nd Sem	9741763715	Female	6/20/2001
25	medhinisampemane@gmail.com	Medhini Sampemane	IDA19IS021	Information Science Engineering	BE 2nd Sem	9108850764	Female	12/15/2000
26	namitharao1999@gmail.com	Namitha Rao	IDA17CS089	Computer Science Engineering	BE 6th sem	8317355957	Female	7/3/1999
27	nikiz2411999@gmail.com	Nikita Ashok Shet	IDA17CS095	Computer Science Engineering	BE 6th sem	9113566498	Male	10/30/2000
28	paavanikomarla@dr-ait.org	Paavani Komarla	IDA17CS103	Computer Science Engineering	BE 6th sem	8861659494	Female	9/11/1999
29	poojabanavaras123@gmail.com	Pooja BS	IDA17CS108	Computer Science Engineering	BE 6th sem	9513025727	Female	12/26/1999
30	poojahamsa99@gmail.com	Pooja yadav P N	IDA18EC429	Electronics and Communication Engineering	BE 6th sem	7349456068	Female	12/30/1999
31	poojil.chowdry@gmail.com	Poojil Chowdry	IDA17CS110	Computer Science Engineering	BE 6th sem	9910043651	Male	11/5/1998

32	prajwalbandipraj13@gmail.com	Prajwal	IDA18TE028	Telecommunication Engineering	BE 4th Sem	7829231037	Male	11/23/2000
33	pkohli5@gmail.com	PRASHANT	IDA18EC432	Electronics and Communication Engineering	BE 6th sem	7353666871	Male	12/1/1997
34	rajid76ec@gmail.com	Prashanth Raj C S	1da18ec433	Electronics and Communication Engineering	BE 6th sem	8496011255	Male	6/21/1999
35	pratheepkumarm26@gmail.com	PRATHEEPKUMAR NM	IDA18EC434	Electronics and Communication Engineering	BE 6th sem	9019699325	Male	9/22/1999
36	happysain185@gmail.com	Pratik Sharma	IDA17CS117	Computer Science Engineering	BE 6th sem	8073413373	Male	2/23/2000
37	peranavshetty27@gmail.com	PERERANA V	IDA19IS025	Information Science Engineering	BE 2nd Sem	998649325	Female	6/27/2001
38	prihvibadekklia1@gmail.com	Prihvi B	IDA17EC102	Electronics and Communication Engineering	BE 6th sem	9741017811	Male	8/28/1999
39	rajarajalakshmi39@gmail.com	Rajalakshmi N N	IDA19CS119	Computer Science Engineering	BE 2nd Sem	8824628299	Female	12/1/2002
40	rakshahande@gmail.com	Raksha S Hande	IDA17CS131	Computer Science Engineering	BE 6th sem	9481659342	Female	10/12/1996
41	rakshithkumar13sept@gmail.com	RAKSHITH J	IDA17EC113	Electronics and Communication Engineering	BE 6th sem	9483449164	Male	9/13/1999
42	rashminm42@gmail.com	Rashmi MN	IDA19IS030	Information Science Engineering	BE 2nd Sem	9483605430	Female	10/30/2000
43	raochreshma@gmail.com	RESHMA RAO C H	IDA19IS031	Information Science Engineering	BE 2nd Sem	7022459486	Female	9/22/2001
44	roopashree7839@gmail.com	Roopashree B R	IDA17EC117	Electronics and Communication Engineering	BE 6th sem	9113895158	Female	8/4/1999
45	iamsachi10@gmail.com	SACHIN B	IDA18EC438	Electronics and Communication Engineering	BE 6th sem	9535332975	Male	3/18/1999
46	sandhyamvkadur@gmail.com	Sandhya M V	IDA17EC121	Electronics and Communication Engineering	BE 6th sem	9663222804	Female	8/16/1999
47	sharath.h.s.143@gmail.com	Sharath kumara H S	IDA18EC441	Electronics and Communication Engineering	BE 6th sem	7676122709	Male	8/1/1996
48	senthilanand29@gmail.com	SENTHILANAND P	IDA17CS153	Computer Science Engineering	BE 6th sem	8971628295	Male	11/9/1999
49	shashank09111999@gmail.com	SHASHANK B	IDA17EC126	Electronics and Communication Engineering	BE 6th sem	7411715223	Male	5/25/1999
50	shashankbbaragur@gmail.com	Shashank b baragur	IDA17EC127	Electronics and Communication Engineering	BE 6th sem	9738614662	Male	3/3/2000
51	shashings64@gmail.com	Shashi Kumar S	IDA18EC442	Electronics and Communication Engineering	BE 6th sem	9206561525	Female	11/14/1999
52	shrayyamsgowda@gmail.com	Shrayya MS	IDA17CS201	Computer Science and Engineering	BE 6th sem	7892799708	Female	6/17/1999
53	176shruti@gmail.com	SHRUSTI	IDA17CS160	Computer Science Engineering	BE 6th sem	9164446481	Female	2/15/1999
54	shilpa1999.mohan@gmail.com	Shilpa M	IDA17EC129	Electronics and Communication Engineering	BE 6th sem	8618486135	Male	4/16/1999
55	srikanthv1999@gmail.com	Srikanth R V	IDA17EC162	Electronics and Communication Engineering	BE 6th sem	6360441761	Male	11/5/1999
56	srinivasindian123@gmail.com	SRINIVAS BS	IDA17CS169	Computer Science Engineering	BE 6th sem	8618757287	Female	5/31/2000
57	suhassr27@gmail.com	SUHAS S R	IDA17CS173	Computer Science Engineering	BE 6th sem	8105447454	Female	6/13/1999
58	suma@dr-ai.org	Suma M N	IDA17CS175	Computer Science Engineering	BE 2nd Sem	9844722941	Male	5/18/2001
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About the Organization

Dr. Ambedkar Institute of Technology is managed By Panchajanya Vidya Peetha Welfare Trust(Regd.) was established by Late Sri M.H.Jayaprakash Narayan in 1979. The institute is affiliated to Visveswaraya Technological University, Belagavi and is accredited by AICTE. The institution has been accredited by NBA, NAAC with 'A' grade and it is mentee instsitute for Institution of Engineering & Technology, Dr.Rammanohar Lohia Avad University, Faizabad, Uttar pradesh. Apart from the 10 disciplines of Engineering, the institute also offers MCA,MBA and M.Tech .programs in various specializations. The institute is one among the 14 colleges selected for receiving the World Bank assistance under the Technical Education Quality Improvement Programme (TEQIP) through Governmnet of India.

Click below link for registration

<https://forms.gle/uCdw5X8oU38xVAAf9>

OR

Scan the following QR code



About the Training

As we are living in the world of connected devices and things, gaining the knowledge in the development of IoT which is future technology is the order of the day. The course focuses on intricacies involved in the development of IoT to prepare the candidates for the industrial standard technologies.

Course Outcomes

- Familiarize with the knowledge of IoT development.
- Design IoT based prototypes.
- Exposure to the open source tools for IoT.

Course Coordinators

Dr. Umadevi H, Professor,

9880324895

B.S.Sudha , Associate Professor,

9242363088

Girija S, Assistant Professor,

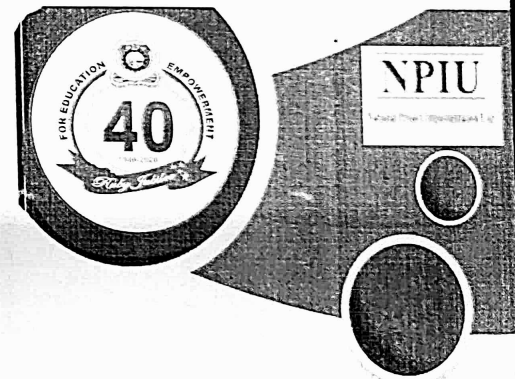
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Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

BDA Outer Ring Road, Mallathalli, Bengaluru-56

TEQIP Assisted
Online Student Training
Future Skill Technology



INTERNET OF THINGS (IoT)

12th July 2020 to 30th September 2020

REPORT

on

TEQIP- III assisted training program on Future Skill Technologies: “Internet of Things”

Objectives of training program on Future Skill Technologies:

Objective of this training program is to teach the students of different branches of engineering, the computer communication techniques, to train them about Internet of things and to educate them on practical implementation of Internet of things concepts.

The TEQIP assisted training program on Future Skill Technology “Internet of Things” for students of Dr. Ambedkar Institute of Technology, Bangalore was inaugurated on 22.07.2020 at 10.30 am. The Chief Guest of the event was Dr. Ashok Rao, Director, National Institute of Technology, Mysore. 92 students from different branches, mainly Electronics and Communication Engineering, Computer Science and Information Science attended the training program. The training included 52 Hours of theory and 10 Hours of Practical sessions on Sensors, different interfaces, and communication protocols. The topics covered are as per the syllabus provided by NPIU.

The sessions started from 22.07.2020 with **Girija S**, Assistant Professor, Dept. Of ECE, Dr. AIT as the trainer from the session “Introduction to IoT”. Various theory sessions were handled by

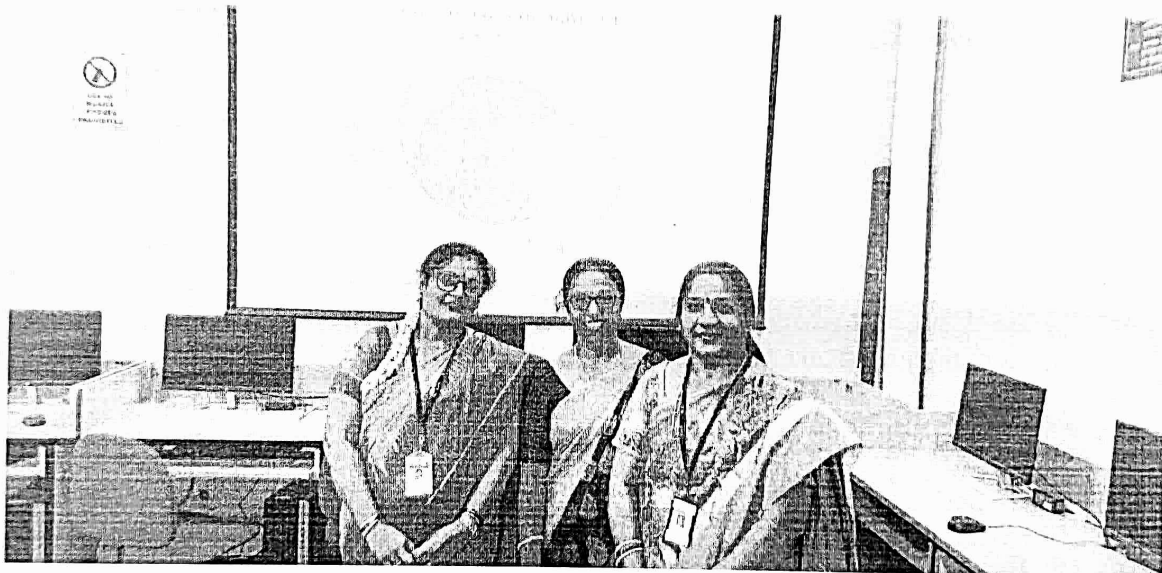
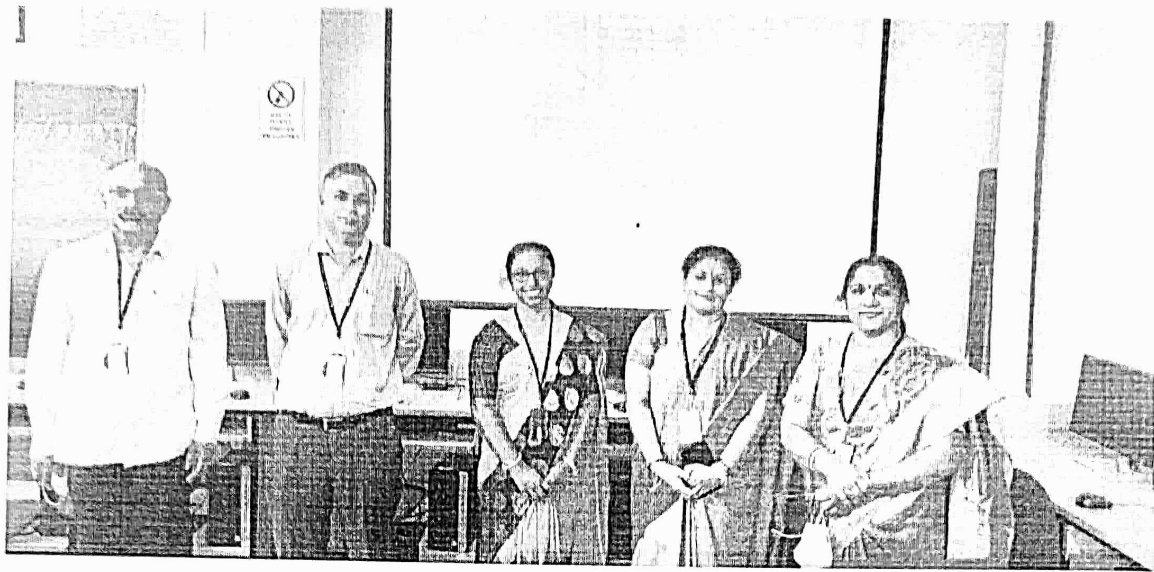
1. **B.S. Sudha** , Asso. Prof, Dept. Of ECE, Dr. AIT
2. **Dr. Umadevi H**, Professor, Dept. Of ECE, Dr. AIT

The practical sessions were handled by Mr.Narasimhan M S, , Mysore and Satish Kumar M, Senior Technical Officer-2, ASID, CSIR, NAL, and Mr. Akash Hegde, Assistant Professor, BNMIT, Bangalore.

A proctored online mid-semester assessment was conducted by NPIU on 04.09.2020 and was evaluated by NPIU. The results were communicated to the students as well as the trainers. The performance of the students is found to be good. The conduction of theory and practical sessions were successfully completed by the trainers as per the schedule. The Proctored online final assessment was conducted by NPIU, on 31st December 2020.

Outcomes of training program on Future Skill Technologies:

The students have gained knowledge in sensors, actuators, communication protocols, networking, cloud computing and machine learning techniques and are able to learnt hands on IoT concepts.





Dr.AMBEDKAR INSTITUTE OF TECHNOLOGY

BDA Outer Ring Road, Mallathahalli, Bengaluru-56

Dept. of Electronics and Communication Engineering

TEQIP-III Assisted

Future Skill Training on

“Internet of Things”

10th March 2021 to 24th March 2021

NPIU

National Project Implementation Unit

Course Objective

1. To provide necessary foundation on Computer communication.
2. Impart necessary knowledge about Internet of Things and its importance.
3. Developing programming skills to code solution for practical problems.
4. To build Internet of things applications.

Shwetha M

Assistant Professor

Dept of ECE, Dr AIT



Dr.AMBEDKAR INSTITUTE OF TECHNOLOGY

BDA Outer Ring Road, Mallathahalli, Bengaluru-56
Dept. of Electronics and Communication Engineering
TEQIP-III Assisted
Future Skill Training on

“Internet of Things”

10th March 2021 to 24th March 2021

NPIU

National Project Implementation Unit

Course Learning Outcomes

1. Interpret the impact and challenges posed by IoT networks leading to new architectural models.
2. Compare and contrast the deployment of smart objects and the technologies to connect them to network.
3. Appraise the role of IoT protocols for efficient network communication.
4. Analyse higher layer IoT Protocols.
5. Elaborate the need for Data Analytics

Shwetha M

Assistant Professor

Dept of ECE, Dr AIT



Dr.AMBEDKAR INSTITUTE OF TECHNOLOGY

BDA Outer Ring Road, Mallathahalli, Bengaluru-56
Dept. of Electronics and Communication Engineering
TEQIP-III Assisted
Future Skill Training on

“Internet of Things”

10th March 2021 to 24th March 2021



Report Summary

Ms. Shwetha M was trained online by IIT Bombay from 23rd Feb 2021 to 27th Feb 2021 on “Internet of Things” under Future Skill Technologies. This is a report on Internet of Things course initiated by NPIU.

Ms. Shwetha has handled classes of 45 hours on internet of things as on 24th March 2021. The main concepts covered in this course are IoT Introduction and Fundamentals, Signals, Sensors, Actuators, Interfaces, Networking and Cloud Computing in IoT and Data Analysis for IoT applications.

The hands-on sessions will be held using python on Jupiter platform in the next sessions as the students need to take both mid-term and final assessment exams. Those details will be provided later.

The training was conducted in a blended mode by the resource person Ms. Shwetha. M. The course objective/s is to provide necessary foundation on networks, knowledge about Internet of Things, programming skills and its applications.

As a course outcome/s, students will be able to do projects under Internet of Things, undertake internships on that topic, can relate and implement Internet of Things on various applications models.

Shwetha M

Assistant Professor

Dept of ECE, Dr AIT



Dr.AMBEDKAR INSTITUTE OF TECHNOLOGY

BDA Outer Ring Road, Mallathahalli, Bengaluru-56
 Dept. of Electronics and Communication Engineering
 TEQIP-III Assisted
 Future Skill Training on

“Internet of Things”

10th March 2021 to 24th March 2021

NPIU

National Project Implementation Unit

Day	Hours	Classes	Topics Covered
10-3-2021	3	1	IoT :Introduction and Fundamentals
		2	Fundamentals of IoT
		3	Fundamentals of IoT
11-3-2021	3	4	Deciphering the term IoT
		5	Applications where IoT can be deployed
		6	Applications where IoT can be deployed
12-3-2021	3	7	Applications where IoT can be deployed
		8	Benefits of deploying an IoT
		9	challenges of deploying an IoT
13-3-2021	3	10	IoT components: Sensors
		11	front-end electronics (amplifiers, filtering, digitization
		12	front-end electronics (amplifiers, filtering, digitization)
14-3-2021	3	13	data transmission
		14	digital signal processing,
		15	choice of channel (wired/wireless)
15-3-2021	3	16	back-end data analysis
		17	Understanding packaging and power constraints for IoT implementation
		18	Sensors: types, signal types, shape and strength
16-3-2021	3	19	Sensor non-idealities: Sensitivity and offset drift
		20	noise, minimum detectable signal, nonlinearity
		21	Read-out circuits: Instrumentation-amplifier
17-3-2021	3	22	SNR definition, noise-bandwidth-power Tradeoff
		23	Circuit component mismatch
		24	mitigation techniques (calibration, chopping, autozeroing etc.)
18-3-2021	3	25	Power/energy considerations
		26	Basic signal processing (filtering, quantization, computation, storage)
		27	Review of Communication Networks
19-3-2021	3	28	Challenges in Networking of IoT Nodes, range, bandwidth
		29	Machine-to-Machine (M2M) and IoT Technology

			Fundamentals,
		30	Medium Access Control (MAC) Protocols for M2M Communications 2 of 2
20-3-2021	3	31	Standards for the IoT
		32	Basics of 5G Cellular Networks
		33	5G IoT Communications, Low-Power Wide Area
21-3-2021	3	34	Networks (LPWAN)
		35	Wireless communication for IoT: channel models
		36	power budgets, data rates
22-3-2021	3	37	IoT Security and Privacy, MQTT Protocol,
		38	Publisher and Subscriber Model
		39	Cloud computing platform (open source)
23-3-2021	3	40	and local setup of such environment
		41	Embedded software relevant to microcontroller
		42	IoT platforms (enterprise or consumer), user interfaces
24-3-2021	3	43	Statistics relevant to large data
		44	Linear regression
		45	Basics of clustering, classification
Total Classes		45	

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Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

BDA Outer Ring Road, Mallathalli, Bengaluru -56

NPIU

National Project Implementation Unit



Cordially invites to all Deans, HODs, Staff and students of Dr.AIT

**FOR THE INAUGURATION OF
TEQIP ASSISTED STUDENT TRAINING ON
FUTURE SKILLS TECHNOLOGY
FROM 10TH MARCH 2021 TO 20TH MARCH 2021**

On

Artificial Intelligence and Machine Learning

In the gracious presence of

Dr Rajendra.G, Principal, Dr. AIT

Dr.Siddaraju, Dean (Academic), Dr.AIT

Dr.Mahalinga.V.Mandi, TEQIP Coordinator, Dr.AIT

Dr.Ramesh.S, Professor & Head of the department of ECE

Course Coordinators:

Dr.Shivaputra, Assistant Professor, Dr.AIT,ECE.

Harsha.R, Assistant Professor, Dr.AIT,ECE.

REPORT

on

TEQIP- III assisted training program on Future Skill Technologies:

“Artificial Intelligence and Machine Learning”

Objectives of training program on Future Skill Technologies:

Artificial Intelligence is a major step forward in how computer system adapts, evolves and learns. It has widespread application in almost every industry and is considered to be a big technological shift, similar in scale to past events such as the industrial revolution, the computer age, and the smart phone revolution.

This course will give an opportunity to gain expertise in one of the most fascinating and fastest growing areas of Computer Science through classroom program that covers fascinating and compelling topics related to human intelligence and its applications in industry, defence, healthcare, agriculture and many other areas. This course will give the students a rigorous, advanced and professional graduate-level foundation in Artificial Intelligence

The TEQIP assisted training program on Future Skill Technology “**Artificial Intelligence and Machine Learning**” for students of Dr. Ambedkar Institute of Technology, Bangalore was inaugurated on 10.03.2021 at 10.30 am. Totally 77 students from different branches, mainly Electronics and Communication Engineering, Computer Science and Information Science attended the inaugural function of the training program. The training included 50 Hours of theory introduction to AI, ML, clusters techniques, Sensors, different interfaces, and communication protocols. The topics covered are as per the syllabus provided by NPIU.

The sessions started from 10.03.2021 with **Harsha.R**, Assistant Professor, Dept. Of ECE, Dr. AIT as the trainer from the session “Introduction to A.I”. Various theory sessions were handled by **Dr. Shivaputra**, Assistant Professor, Dept. Of ECE, Dr. AIT as per the schedule.

A proctored online mid-semester assessment was conducted by NPIU on 21.03.2021 and was evaluated by NPIU. The results were communicated to the students as well as the trainers. The performance of the students is found to be good. The conduction of theory and project sessions were successfully completed by the trainers as per the schedule. The Proctored online final assessment is yet to be conducted.

Outcomes of training program on Future Skill Technologies:

After undergoing this course, the students will be able to:

- Understand Classical and Modern AI
- Formulate problems as learning problems
- Understand the role of data in modern AI
- Train and evaluate ML-based AI systems
- Program AI systems using modern frameworks

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Future skills on ARTIFICIAL INTELLIGENCE and MACHINE LEARNING
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Future skills on ARTIFICIAL INTELLIGENCE and MACHINE LEARNING
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Future skills on ARTIFICIAL INTELLIGENCE and MACHINE LEARNING
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Future skills on ARTIFICIAL INTELLIGENCE and MACHINE LEARNING
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Future skills on ARTIFICIAL INTELLIGENCE and MACHINE LEARNING
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