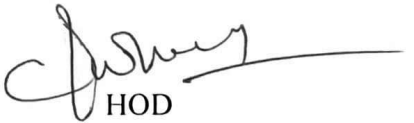




Dr. Ambedkar Institute of Technology
Electronics and communication Department

The enclosed documents are valid and verified.



HOD

ECE Department

HOD

Dept. of Electronics and Communication Engg

Dr. Ambedkar Institute of Techno

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

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
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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

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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

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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

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Coordinators

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

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

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

From 1st to 18th September 2021

SYLLABUS

Module 01: Fundamentals of Modern AI

- History of AI
- Mathematical Basics (Linear Algebra, Probability)
- Classical AI (Search Algorithms)
- Basics of ML (Classification, Regression, Clustering)

Module 02: Deep Learning

- Neural Networks
- Back Propagation
- Deep Learning Architectures
- Training DNNs and Hyper Parameters
- Unsupervised Deep Learning

Module 03: Perception

- Problems related to
 - Text
 - Images
 - Speech

Module 04: Planning

- Planning under Uncertainty
- Markov Decision Processes
- Partially Observable MDPs
- Multi Agent Systems

Practical Sessions

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

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BDA Outer Ring Road, Mallathalli, Bengaluru-56

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

From 1st to 18th September 2021

SYLLABUS

The practical sessions are designed to provide users a familiarity with AI and ML systems. These sessions will utilize modern ML frameworks and programming tools such as Python notebooks. The participants will also learn to connect and work with computational servers for large-scale learning and evaluation tasks. The specific themes and problems include:

1. Training, Testing and Hyper-parameter tuning

Most modern AI systems are developed based on learning from large datasets. The participants will learn the art of training and evaluation of ML algorithms.

2. Neural Network Learning, Classification and Regression

These problems will require the development of system that do classification and regression tasks using neural network models.

3. Deep Learning in Text, Image and Speech

Here, we will explore various perception problems using text, image and speech data. The participants will be able to develop basic recognition modules for these input modalities.

4. Developing Intelligent Agents

In this part, the participants will get hands-on training in development of autonomous agents that modify their behavior based on its environment

5. In addition, there will also be a Mini Project, where the participants will develop a practical and complete AI system and understand various aspects of problem

Formulation, data collection and annotation, model selection, training and evaluation, and deployment of such a system.

Dr. Ambedkar Institute of Technology, Bangalore
 Department of Electronics and Communication Engineering
**Future Skilled Program on Artificial Intelligence and Machine
 Learning (AI-ML)**
1st September – 18th September, 2021
 Work Done Statement

Day-1: 1st September 2021			
Lecture 1:	10 AM – 11 AM	History of AI	Ms. Shalini N
Lecture 2:	11 AM – 12 PM	Mathematical Basics - Linear Algebra	Ms. Shalini N
Lecture 3:	02 PM – 03 PM	Mathematical Basics - Linear Algebra	Ms. Shalini N
Lecture 4:	03 PM – 04 PM	Lab Session	Mr. Swamy T N
Day-2: 2nd September 2021			
Lecture 5:	10 AM – 11 AM	Mathematical Basics - Probability	Ms. Shalini N
Lecture 6:	11 AM – 12 PM	Mathematical Basics - Probability	Ms. Shalini N
Lecture 7:	02 PM – 03 PM	Classical AI (state space representation)	Ms. Shalini N
Lecture 8:	03 PM – 04 PM	Lab Session	Mr. Swamy T N
Day-3: 3rd September 2021			
Lecture 9:	10 AM – 11 AM	Classical AI (state space search - deterministic algorithms)	Ms. Shalini N
Lecture 10:	11 AM – 12 PM	Classical AI (State space search - heuristic search)	Ms. Shalini N
Lecture 11:	02 PM – 03 PM	Classical AI (state space search - A* search)	Ms. Shalini N
Lecture 12:	03 PM – 04 PM	Lab Session	Srinivasa A H
Day-4: 4th September 2021			
Lecture 13:	10 AM – 11 AM	Classical AI (Randomized algorithms)	Ms. Shalini N
Lecture 14:	11 AM – 12 PM	Classical AI (Genetic algorithm)	Ms. Shalini N

Dr. Ambedkar Institute of Technology, Bangalore
 Department of Electronics and Communication Engineering
**Future Skilled Program on Artificial Intelligence and Machine
 Learning (AI-ML)**
1st September – 18th September, 2021
 Work Done Statement

Lecture 15:	02 PM – 03 PM	Classical AI (Prolog)	Ms. Shalini N
Lecture 16:	03 PM – 04 PM	Lab Session	Srinivasa A H
Day-5: 6th September 2021			
Lecture 17:	10 AM – 11 AM	Classical AI (General Concepts of Pattern Recognition)	Ms. Shalini N
Lecture 18:	11 AM – 12 PM	Machine Learning - Vector based representation & Problem Formulation	Ms. Shalini N
Lecture 19:	02 PM – 03 PM	Machine Learning - Different types of loss functions	Ms. Shalini N
Lecture 20:	03 PM – 04 PM	Lab Session	Srinivasa A H
Day-6: 7th September 2021			
Lecture 21:	10 AM – 11 AM	Machine Learning - Gradient Descent and Stochastic Batch Gradient Descent	Swamy T N
Lecture 22:	11 AM – 12 PM	Machine Learning - Decision Tree Classifier	Swamy T N
Lecture 23:	02 PM – 03 PM	Machine Learning - Decision Tree Regression	Swamy T N
Lecture 24:	03 PM – 04 PM	Lab Session	Srinivasa A H
Day-7: 8th September 2021			
Lecture 25:	10 AM – 11 AM	Machine Learning - Bias and Variance Trade Off	Swamy T N
Lecture 26:	11 AM – 12 PM	Machine Learning - Ensemble methods - Bagging, Boosting and Random Forest	Swamy T N
Lecture 27:	02 PM – 03 PM	Machine Learning - Missing Values, Data Imbalance, Noise	Swamy T N

Dr. Ambedkar Institute of Technology, Bangalore
 Department of Electronics and Communication Engineering
**Future Skilled Program on Artificial Intelligence and Machine
 Learning (AI-ML)**
1st September – 18th September, 2021
 Work Done Statement

Lecture 28:	03 PM – 04 PM	Lab Session	Srinivasa A H
Day-8: 9th September 2021			
Lecture 29:	10 AM – 11 AM	Introduction to Neural Networks & Back Propagation	Swamy T N
Lecture 30:	11 AM – 12 PM	Introduction to Neural Networks & Back Propagation	Swamy T N
Lecture 31:	02 PM – 03 PM	Neural Networks - Activation Functions and Loss functions, Automatic Differentiation	Swamy T N
Lecture 32:	03 PM – 04 PM	Lab Session	Ms. Shalini N
Day-9: 11th September 2021			
Lecture 33:	10 AM – 11 AM	Neural Networks Classification Formulation	Swamy T N
Lecture 34:	11 AM – 12 PM	Introduction to fully connected neural network	Swamy T N
Lecture 35:	02 PM – 03 PM	Introduction to auto-encoder	Swamy T N
Lecture 36:	03 PM – 04 PM	Lab Session	Ms. Shalini N
Day-10: 13th September 2021			
Lecture 37:	10 AM – 11 AM	Introduction to convolutional neural networks	Swamy T N
Lecture 38:	11 AM – 12 PM	Introduction to convolutional neural networks	Swamy T N
Lecture 39:	02 PM – 03 PM	Introduction to Recurrent Neural Networks	Swamy T N
Lecture 40:	03 PM – 04 PM	Lab Session	Ms. Shalini N
Day-11: 14th September 2021			
Lecture 41:	10 AM – 11 AM	Introduction to Generative Adversarial Networks	Srinivasa A H
Lecture 42:	11 AM – 12	Introduction to Recurrent Neural	Srinivasa A H

Dr. Ambedkar Institute of Technology, Bangalore
 Department of Electronics and Communication Engineering
**Future Skilled Program on Artificial Intelligence and Machine
 Learning (AI-ML)**
1st September – 18th September, 2021
 Work Done Statement

	PM	Networks	
Lecture 43:	02 PM – 03 PM	Introduction to Recurrent Neural Networks	Srinivasa A H
Lecture 44:	03 PM – 04 PM	Lab Session	Mr. Swamy T N
Day-12: 15th September 2021			
Lecture 45:	10 AM – 11 AM	Introduction to attention models	Srinivasa A H
Lecture 46:	11 AM – 12 PM	Hyper Parameter Tuning - AutoML	Srinivasa A H
Lecture 47:	02 PM – 03 PM	Text Analysis - Sklearn & demo	Srinivasa A H
Lecture 48:	03 PM – 04 PM	Lab Session	Mr. Swamy T N
Day-13: 16th September 2021			
Lecture 49	10 AM – 11 AM	Text Analysis - Word2Vec & demo	Srinivasa A H
Lecture 50:	11 AM – 12 PM	Image - Yolo for object recognition & demo	Srinivasa A H
Lecture 51:	02 PM – 03 PM	Image - Object tracking & demo	Srinivasa A H
Lecture 52:	03 PM – 04 PM	Lab Session	Mr. Swamy T N
Day-14: 17th September 2021			
Lecture 53:	10 AM – 11 AM	Speech data & feature engineering, Speech data - Speaker recognition, Speech to text	Srinivasa A H
Lecture 54:	11 AM – 12 PM	Unsupervised Learning - K Means Clustering, Unsupervised Learning - Agglomerative Clustering and Dendrograms	Srinivasa A H
Lecture 55:	02 PM – 03 PM	Human Recognition with AI	Srinivasa A H

Dr. Ambedkar Institute of Technology, Bangalore
Department of Electronics and Communication Engineering
**Future Skilled Program on Artificial Intelligence and Machine
Learning (AI-ML)**
1st September – 18th September, 2021
Work Done Statement

Lecture 56:	03 PM – 04 PM	Lab Session, Planning – MDP (Mini Project)	Ms. Shalini N
Day-15: 18th September 2021			
Lecture 57:	10 AM – 11 AM	AI in Wireless Communication	Srinivasa A H
Lecture 58:	11 AM – 12 PM	Classification using SVM	Srinivasa A H
Lecture 59:	02 PM – 03 PM	Applications Of Classification	Srinivasa A H
Lecture 60:	03 PM – 04 PM	Lab Session	Ms. Shalini N
4 PM - 5 PM VALIDICTORY			

Coordinators

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

Biography



Mr. Swamy T N, B.E, M.Tech, (Ph.D)

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Mr. Swamy T N is presently working as Assistant Professor in the Department of Electronics and Communication Engineering in Dr. AIT, Bengaluru. Has Nine years teaching experience in the field of VLSI and Image Processing. Currently perusing Ph.D and has published research papers in reputed indexed Journals. Also has trained faculties and students in various colleges.

FACULTY PROFILE

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Designation : Assistant Professor
Department and College : ECE, Dr.AIT
Date of Birth: : 7th January 1986
Father's Name : Thimmaiah L M
Mother's Name : Saraswathamma D M

Photo



2. Contact Information.

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<i>Degree</i>	<i>Specialization</i>	<i>Board/ University</i>	<i>Year of Passing</i>	<i>Class Obtained</i>
<i>PhD</i>	Persuing	VTU		
<i>M.Tech/M.E</i>	VLSI design & Embedded Systems	VTU	2011	FCD
<i>B.E</i>	Electronics & Communication	VTU	2008	FC
<i>PUC/Diploma</i>	Physics, Chemistry, Mathematics, Biology	Karnataka P U Board	2004	FC
<i>SSLC</i>	Kannada	KSEEB	2002	FCD

Signature

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.gle/eLHHfhtFXkXcQA7P9>

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

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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



TEQIP Assisted
Online Student Training on
Future Skill Technologies

ROBOTICS
&
AUTOMATION

22nd July 2020 to 30th September 2020

Register now



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***

LIST OF PRACTICALS (FOCUSSED ON INDUSTRIAL ROBOTICS)

1. Study components of an industrial robot (PUMA, KUKA, FANUC, MTAB , UR , Etc) and its DH parameters / Simpler laboratory version of robotic arm having 4 or 5 DOF.
2. Forward kinematics and validation using a software (Robo Analyser/MathLab or any other free software tool).
3. Inverse kinematics of an industrial robot and validation using any open source software./ Simpler laboratory version of robotic arm.
4. Industrial Robot programming using VAL II or equivalent / simpler laboratory version of robotic arm.
5. Microcontroller lab – programming (free software /open source)
6. Integration of assorted sensors (IR, Potentiometer, strain gages etc.), micro controllers and ROS (Robot Operating System) in a robotic system. (Free software, Matlab)
7. Control experiment using available hardware or software. (Open source or Matlab).
8. Use of open source computer vision programming tool/ MatLab, open CV.
9. Research related experiment in AI , e.g. multi agent system, unmanned systems control using ROS, etc.
10. Small group project work relevant to Industrial automation.

Text Books to be followed:

- Introduction to Robotics : J. Craig , Pearson
- Robot Dynamics and Control, Spong & Vidyasagar, Mc Graw Hill
- Robotics Engineering : R. Klafter, PHI
- Robotics : Subir K Saha , Mc GrawHill
- Industrial Robotics : M. P. Groover, Ashish Dutta , McGraw Hill

Syllabus : Robotics and Automation

ROBOTICS AND AUTOMATION

OBJECTIVE

The objective of this course is to impart knowledge about basic mathematics related to industrial robots for their control, design and application in robotics & automation Industries.

LEARNING OUTCOMES

After the completion of this course, the students will be able to:

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

DETAIL CONTENTS

1. Introduction to Robotics

- 1.1 Types and components of a robot, Classification of robots,
- 1.2 Kinematics systems; Definition of mechanisms and manipulators, Degrees of Freedom

2. Robot Kinematics and Dynamics

- 2.1 Kinematic Modelling: Translation and Rotation Representation, Coordinate transformation, DH parameters, Forward and inverse kinematics, Jacobian, Singularity, and Statics
- 2.2 Dynamic Modelling: Forward and inverse dynamics, Equations of motion using Euler-Lagrange formulation, Newton Euler formulation

3. Sensors

- 3.1 Sensor: Contact and Proximity, Position, Velocity, Force, Tactile

- etc.
- 3.2 Introduction to Cameras, Camera calibration,
- 3.3 Geometry of Image formation, Euclidean/Similarity/Affine/Projective transformations
- 3.4 Vision applications in robotics.

4. Robot Actuation Systems

5.1 Actuators: Electric, Hydraulic and Pneumatic; Transmission: Gears, Timing Belts and Bearings, Parameters for selection of actuators.

5. RobotControl

- 5.1 Basics of control: open loop- closed loop, Transfer functions, Control laws: P, PD, PID
- 5.2 Linear and Non-linear controls

6. Control Hardware and Interfacing

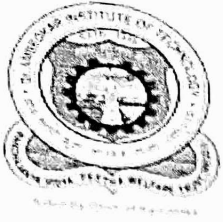
6.1 Embedded systems : Microcontroller Architecture and integration with sensors, actuators, components, Programming Applications for Industrial robot - programming in – VAL II

7. AI in Robotics : Applications in unmanned systems, defense, medical, industries, etc.

8. Robotics and Automation for Industry 4.0

9. Robot safety and social robotics.

Note: Involvement of Robotics industries so that the faculty are aware of what is essential when their students apply for industrial jobs. Industries in India dealing with industrial robots are PARI, MTAB, SystemAntics, Motoman, FANUC, KUKA, UR and they would be involved in delivering expert industry lectures.



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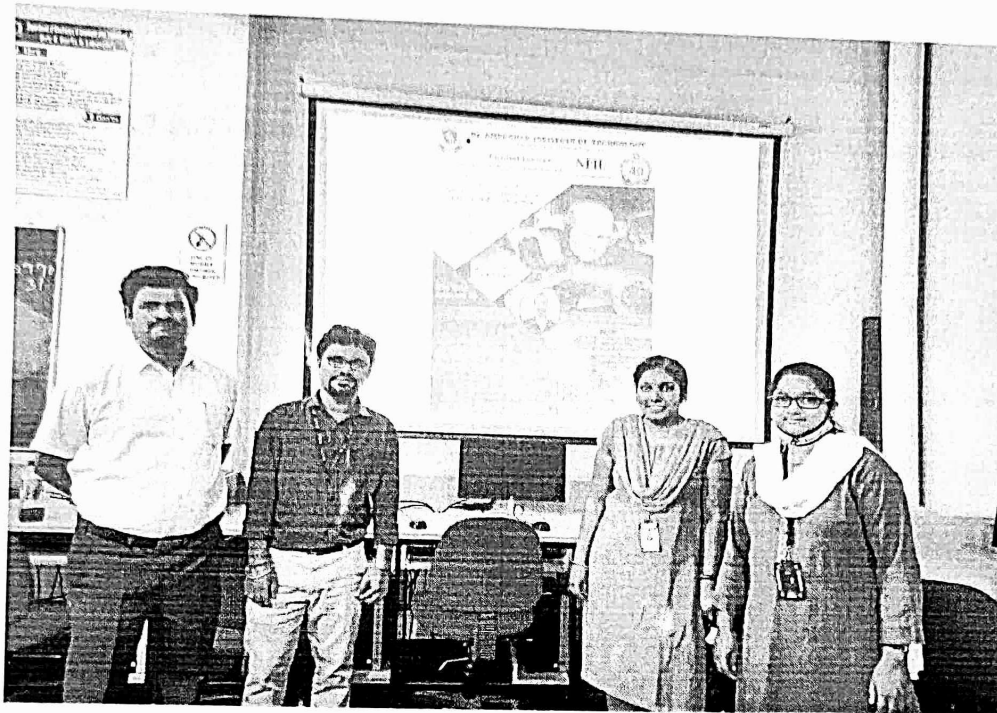
Mid-Training assessment of students on Future Skill technologies through NASSCOM SSC was carried out on 24th August 2020 and around 40 participants appeared for the exam.

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

Training on Future Skills Technology

Robotics and Automation

TENTATIVE SCHEDULE

From 22.07.2020 to 06.09.2020

Time: 10.00 AM to 12.00 NOON (Online Mode)

Date	Topic	Trainer			
22.07.2020 Wednesday	Inauguration	Principal and HOD	Wednesday	Jacobians: Velocities and Forces Part-II Quiz(15 minutes)	
	Key Note Address	Dr. Pushparaj Mani Pathak IIT- Roorkee	06.08.2020 Thursday	Numerical on Jacobians Quiz(30 minutes)	VC
23.07.2020 Thursday	Introduction to Robotics	MKV	07.08.2020 Friday	Manipulator Dynamics Part-I Quiz(15 minutes)	VC
	Industrial Robotics	AHD	08.08.2020 Saturday	Manipulator Dynamics Part-II Quiz(15 minutes)	VC
24.07.2020 Friday	Spatial Descriptions Quiz(15 minutes)	MKV	09.08.2020 Sunday	Numerical on Manipulator Dynamics Quiz(30 minutes)	VC
25.07.2020 Saturday	Spatial Transformation Quiz(15 minutes)	MKV	10.08.2020 Monday	Sensors Part-I Quiz(15 Minutes)	AHD
26.07.2020 Sunday	Numerical on Spatial transformation Quiz(30 minutes)	MKV	11.08.2020 Tuesday	Sensors Part-II Quiz(15 Minutes)	AHD
27.07.2020 Monday	Manipulator Kinematics Part-I Quiz(15 minutes)	MKV	12.08.2020 Wednesday	Actuators Quiz(15 Minutes)	MM
28.07.2020 Tuesday	Manipulator Kinematics Part-II Quiz(15 minutes)	MKV	13.08.2020 Thursday	Trajectory Generation Part-I Quiz(15 minutes)	AHD
29.07.2020 Wednesday	Numerical on Manipulator Kinematics Quiz(30 minutes)	MKV	14.08.2020 Friday	Trajectory Generation Part-II Quiz(15 minutes)	AHD
30.07.2020 Thursday	Manipulator Inverse Kinematics Part-I Quiz(15 minutes)	VC	15.08.2020 Saturday	Numerical on Trajectory Generation Quiz(30 minutes)	AHD
02.08.2020 Sunday	Manipulator Inverse Kinematics Part-II Quiz(15 minutes)	VC	16.08.2020 Sunday	Manipulator Mechanism Design Part-I Quiz(15 minutes)	MM
03.08.2020 Monday	Numerical on Inverse Manipulator Kinematics Quiz(30 minutes)	VC	17.08.2020 Monday	Manipulator Mechanism Design Part-II Quiz(15 minutes)	MM
04.08.2020 Tuesday	Jacobians: Velocities and Forces Part-I Quiz(15 minutes)	VC	18.08.2020 Tuesday	Numerical on Manipulator Mechanism Design	MM
05.08.2020		VC			

	Quiz(30 minutes)	
19.08.2020 Wednesday	Formative Midterm Assessment	--
20.08.2020 Thursday	Linear Control of Manipulators Part-I Quiz(15 minutes)	KV
21.08.2020 Friday	Linear Control of Manipulators Part-II Quiz(15 minutes)	KV
23.08.2020 Sunday	Numerical on linear control of Manipulators Quiz(30 minutes)	KV
24.08.2020 Monday	Non-Linear Control of Manipulators Part-I Quiz(15 minutes)	KV
25.08.2020 Tuesday	Non-Linear Control of Manipulators Part-II Quiz(15 minutes)	KV
26.08.2020 Wednesday	Numerical on Non-linear control of Manipulators Quiz(30 minutes)	KV
27.08.2020 Thursday	Force Control of Manipulators Part-I Quiz(15 minutes)	KV
28.08.2020 Friday	Force Control of Manipulators Part-II Quiz(15 minutes)	KV
		KV

29.08.2020 Saturday	Numerical on Force Control of Manipulators Quiz(30 minutes)	
30.08.2020 Monday	Embedded Systems Part-I Quiz(15 minutes)	AHD
31.08.2020 Monday	Embedded Systems Part-II Quiz(15 minutes)	AHD
01.09.2020 Tuesday	Image Processing & Mission Vision Quiz(15 minutes)	AHD
02.09.2020 Wednesday	Artificial Intelligence in Robotics Quiz(15 minutes)	VC
03.09.2020 Thursday	Robotics and Automation for Industry 4.0. Quiz(15 minutes)	MM
04.09.2020 Friday	Open Source Software Quiz(15 minutes)	MKV
05.09.2020 Friday	Open Source Software Quiz(15 minutes)	AHD
06.09.2020 Saturday	Robotics Safety and social robots Quiz(15 minutes)	MM
	Feedback session and Valedictory	Principal and HOD
2 nd Week of September	Post Training Assessment	--

NOTE: Practical Sessions will be conducted during the regular theoretical sessions.

List of Trainers

1	MKV Mohakumar V. Assistant Professor Dept. of ECE, Dr.AIT, Bengaluru-56.
2	KV Kestara V. Assistant Professor Dept. of ECE, Dr.AIT Bengaluru-56.

3	HDA H.D.Anand Assistant Professor Dept. of ECE, Dr.AIT Bengaluru-56.
4	VC Vidyashree C. Assistant Professor Dept. of ECE, Dr.AIT Bengaluru-56.
5	MM Madhusudhan M. Assistant Professor Dept. of ECE, Dr.AIT Bengaluru-56.

Dr. Ambedkar Institute of Technology, Bengaluru-56
 (An Autonomous Institution Affiliated to VTU, Belagavi)
Training on Future Skills Technology: Robotics and Automation
Attendance of Students for Classes Handled by VIDYASHREE C

Sl. No.	Student Name	USN	29-07-2020	30-07-2020	02-08-2020	03-08-2020	04-08-2020	06-08-2020	07-08-2020	08-08-2020	09-08-2020
			10.30-12.30	5.00-7.00	9.30-11.30	9.00-11.00	10.30-12.30	5.00-7.00	9.30-11.30	10.30-12.30	10.30-12.30
1	1DAI7CS026	Bhavani T R	1	2	3	4	5	6	7	8	9
2	1DAI7CS039	DARSHAN H K	1	2	3	4	5	6	7	8	9
3	1DAI7CS048	GAGANA S N	1	2	2	3	4	5	6	7	8
4	1DAI7CS055	HEMALATHA.M	1	2	3	4	5	6	7	7	8
5	1DAI7CS056	HEMARAJ	1	2	3	4	5	6	7	8	9
6	1DAI7CS059	JHANAVALR	1	2	3	4	5	6	7	7	8
7	1DAI7CS073	MAHAMMEDANSAR Y	1	2	3	4	5	6	7	8	9
8	1DAI7CS142	ROOPESH KUMAR C K	0	2	3	4	5	6	7	8	9
9	1DAI8CS420	POOJA VASANTH	1	2	3	4	5	6	7	7	8
10	1DAI8CS424	SARASWATHI M	1	2	3	4	5	6	7	8	9
11	1DAI8CS425	SHANMUKHA TIMMAPP	1	2	3	4	5	6	7	8	9
12	1DAI5EC148	SUHAS S KASHYAP	1	2	3	4	4	5	6	7	8
13	1DAI6EC040	Harshitha G V	1	2	3	4	5	6	7	8	9
14	1DAI7EC018	ASHWINI H	1	2	3	4	5	6	7	8	9
15	1DAI7EC021	CHINMAYEE B H	1	2	3	4	5	6	7	7	8
16	1DAI7EC027	Chandan S	1	2	3	4	5	6	7	8	9
17	1DAI7EC028	CHANDANASHREE.A	1	2	3	4	5	6	7	8	9
18	1DAI7EC037	Divya	1	2	3	4	5	6	7	7	8
19	1DAI7EC041	GAJANAN R SHANBHAG	1	2	3	4	5	6	7	8	9
20	1DAI7EC042	GAURAV N KAWALE	1	2	3	4	5	6	7	8	9
21	1DAI7EC052	JYESHTA BABU SUYOG	1	2	3	4	5	6	7	8	9
22	1DAI7EC071	M R SRI VANI	1	2	3	4	5	6	6	7	8
23	1DAI7EC077	MANSOOR PASHA	1	2	3	4	5	6	7	8	9
24	1DAI7EC078	MEGHANA C	1	2	3	4	5	6	7	8	8
25	1DAI7EC082	NANDINI N	1	2	3	4	5	6	7	8	9
26	1DAI7EC086	NISCHITHA V	1	2	3	4	5	6	7	8	9
27	1DAI7EC136	SRINIDHI K S	1	2	3	4	4	5	6	7	8
28	1DAI7EC145	ULLAS K	1	2	3	4	5	6	7	8	9
29	1DAI7EC148	Veekshith R	1	2	3	4	5	6	7	8	9
30	1DAI8EC425	Nikhil Reddy G	1	2	3	4	5	6	7	8	9
31	1DAI8EC428	POOJA RITI	1	2	3	4	5	6	7	8	9
32	1DAI7E1007	ANUSHA BALEHOLA	1	2	3	4	5	6	7	8	8
33	1DAI7E1008	Anusha U.N	1	2	3	4	5	6	7	8	9
34	1DAI7E1011	Bhuvan M	1	2	3	4	5	6	7	8	9
35	1DAI7E1012	Chaitra Shree	1	2	3	4	5	6	7	8	9
36	1DAI7E1015	G Rashmi	1	2	3	4	5	6	7	8	9
37	1DAI7E1016	Greeshma G	1	2	3	4	5	6	7	8	9
38	1DAI7E1017	HARIKA PABBATHI	1	2	3	4	5	6	7	8	9
39	1DAI7E1022	JAVASHREE Y	1	2	3	4	5	5	6	7	8
40	1DAI7E1023	KAVITHA R	1	2	3	4	5	6	7	8	9
41	1DAI7E1025	MANORITHA A	1	2	3	4	4	5	6	7	8
42	1DAI7E1028	MOHITH PRAJWAL M	1	2	3	4	5	6	7	8	9
43	1DAI7E1031	Payal S P	1	2	3	4	5	6	7	8	9
44	1DAI7E1038	Sachin Klini N.	1	2	3	4	5	6	7	8	9
45	1DAI7E1042	SHRUSTI CHAVAN Y	1	2	3	4	5	6	7	8	9
46	1DAI7E1046	SUSHMA K S	1	2	3	4	4	5	6	7	8
47	1DAI7E1051	YASHASWINI R	1	2	3	4	5	6	7	8	8
48	1DAI7IS012	HARSHA CHOUDHARY	1	2	3	4	5	6	7	8	8
49	1DAI7ME146	SHRINIVAS FADNIS	1	2	3	4	5	6	7	8	9
50	1DAI7ME151	SUNIL PALM	1	2	3	4	5	6	7	8	9

BIOGRAPHY

Name: - Mohankumar V.

Designation: Assistant Professor

Department: Electronics & Communication Engineering

Mohankumar V., completed undergraduate programme in the year 2003 in Electronics and Communication Engineering at Dr. Ambedkar Institute of Technology, Bengaluru and completed post-graduation in the year 2010 in computer science and engineering at RV College of Engineering, Bengaluru. Also pursuing Ph.D. in the field of energy harvesting/ renewable energy sources at Dr. Ambedkar Institute of Technology, Bengaluru, under Visvesvaraya Technological University, Belagavi.

His research Interests are Energy Harvesting, Control Systems, Robotics, Low power electronics etc.

He has published many articles in the referred journals and he is a member of ISTE, CRSI, ISSS and IEEE professional bodies.

He has coordinated and organized many seminars, Field visits, workshops for students as well as faculty.

He has delivered a talk of “**Awareness on NBA**” for the faculty of IET, Ayodhya. And delivered a lecture on “**Attainment of Outcomes for Outcome Based Education**” for the faculty of Electronics and Communication Engineering, Dr. Ambedkar Institute of Technology, Bengaluru.

BIOGRAPHY

Name: - Kesthara V

Designation: Assistant Professor

Dept.: Electronics & Communication Engineering

Kesthara V received B.E degree in Electronics and Communication Engg. During 2006 from VTU, Belgaum. Received MTech. in “Digital Communication and Networking” in the year 2009 from SJCIT, Chickballapura under VTU. Pursuing PhD ON “VLSI Architecture for Signal Processing” under VTU, Belagavi.

Research field is VLSI, Signal Processing, Image Processing . Presently working as Assistant Professor in Dr. Ambedkar Institute of Technology, Bangalore, India. Has teaching experience of 12 yrs.

Has 8 International journal publications,01 National Conference, 02 International Conference Publications. Member of the Professional bodies like CRSI,ISTE. Has attended totally about 30 FDP’s, workshops, Short term courses. Organized 2 FDP’s / workshop.

BIOGRAPHY

Name: - Anand H D

Designation: Asst. Professor

Dept.: Electronics & Communication Engineering

Anand H D , currently working as Assistant Professor in Department of Electronics and Communication Engineering at Dr. Ambedkar Institute of Technology, Bengaluru is pursuing his PhD under VTU University in the field of VLSI Design. He completed his M.Tech degree in VLSI Design and Embedded Systems at SVIT (affiliated to VTU –Belgaum), Bengaluru. He has received the B.E. degree in Electronics and Communication Engineering from the Dr. Ambedkar Institute of Technology, Bengaluru under VTU university in 2013. He has presented a paper in Student National level conference and published papers in reputed Journals. His current research interests include network-on- chip routing algorithms/architectures and VLSI and Embedded Systems design.

BIOGRAPHY

Name: - VIDYASHREE C

Designation: Assistant Professor

Dept.: Electronics & Communication Engineering

VIDYASHREE C received B.E degree in Electronics and Communication Engg. During 2011 from VKIT, under VTU. Received M.Tech. in “Power Electronics” in the year 2013 from PESIT, Affiliated to VTU. Pursuing PhD in the field of Image Processing under VTU, Belagavi.

Research field is Image Processing and Power Electronics. Presently working as Assistant Professor in Dr. Ambedkar Institute of Technology, Bangalore, India. Has teaching experience of 7yrs.

Has 06 International journal publications, 03 National Conference, Member of the Professional bodies like AICTE, IEEE, ISTE. Has attended totally about 20 FDP's, workshops, Short term courses. Organized 3 FDP's / workshop.



DR. AMBEDKAR INSTITUTE OF TECHNOLOGY

BDA Outer ring road, Mallathalli, Bengaluru-56



**TEQIP
Assisted Training
on Future Skill
Technologies**

CYBER SECURITY

**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

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

TEQIP-3

Chief Convener

Dr. C Nanjundaswamy
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. Spoorthi 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



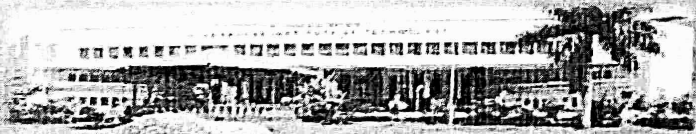
<https://forms.gle/yo5fn3mg3bHGDXMGA>

Registration Fee:

✓ FREE for students of Dr. AIT.

Who can participate?

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



Dr. Ambedkar Institute of Technology

Details of Registered Students for Cyber Security Course

Course: Cyber Security

Sl.No	Email	NAME	USN	DEPARTMENT	SEMESTER	COTACT NO.	GENDER	DATE OF BIRTH
1	aditya.monika55@gmail.com	Aditya Tiwari	1DA17IS002	Information Science Engineering	BE 6th sem			
2	akshayakumar1811@gmail.com	Akshaya K	1DA17CS010	Computer Science Engineering	BE 6th sem	9108596165	Male	5/5/1999
3	mayuraamogha19@dr-ait.org	Amogha S	1DA17CS013	Computer Science Engineering	BE 6th sem	8310103993	Female	8/24/1999
4	anagha.melepat@gmail.com	Anagha Ajoykumar	1DA17CS014	Computer Science Engineering	BE 6th sem	8951338715	Male	3/1/1999
5	anandanagha2@gmail.com	Anagha Anand	1DA17EC011	Electronics and Communication Engineering	BE 6th sem	8277095695	Female	9/20/1999
6	anupama1202@gmail.com	ANUPAMA A S	1DA18CS019	Computer Science Engineering	BE 4th sem	8073643214	Female	9/1/1999
7	anushamg511@gmail.com	Anusha.M.G	1DA19CS016	Computer Science Engineering	BE 2nd Sem	9380688630	Female	2/12/2000
8	chaithanyaju@gmail.com	Chaithanya J Umashankar	1DA19IS007	Information Science Engineering	BE 2nd Sem	8971454195	Female	1/5/2001
9	chandanak157@gmail.com	Chandana K	1DA17CS034	Computer Science Engineering	BE 6th sem	9591185729	Female	9/6/2001
10	srujangowda66@gmail.com	D M SRUJAN GOWDA	1DA17EC137	Electronics and Communication Engineering	BE 6th sem	9.1866E+11	Female	4/15/1999
11	darshancr58@gmail.com	Darshan C R	1DA18EC410	Electronics and Communication Engineering	BE 6th sem	6362881850	Male	5/10/1999
12	darshithsuresh2001@gmail.com	Darshith.S	1DA19IS010	Information Science Engineering	BE 2nd Sem	9964182058 (or) 7676656210	Male	3/2/2000
13	deepakr.dsr@gmail.com	Deepak S R	1DA18CS044	Computer Science Engineering	BE 4th Sem	7349546760	Male	10/31/2001
14	surendrasindhu7@gmail.com	JAYAM SURENDRA SINDHU	1DA17CS058	Computer Science Engineering	BE 6th sem	9535577222	Male	4/24/2000
15	kartikkorhalle25@gmail.com	Kartik	1DA18CS062	Computer Science Engineering	BE 4th Sem	9182766754	Female	7/23/2000
16	kavitaprabhu1999@gmail.com	Kavita Nagaraj Prabhu	1DA18TE015	Telecommunication Engineering	BE 4th Sem	8296160890	Male	11/25/2000
17	Kavyatejas1997@gmail.com	KAVYA H C	1DA18EC415	Electronics and Communication Engineering	BE 6th sem	9986242310	Female	9/1/1999
18	kavyapn789@gmail.com	Kavya PN	1DA18EC416	Electronics and Communication Engineering	BE 6th sem	9108298422	Female	6/1/1997
19	kavyav864@gmail.com	Kavya. V	1DA19IS016	Information Science Engineering	BE 2nd Sem	9483685748	Female	8/8/1999
20	kirankumarbm007@gmail.com	Kirankumar B M	1da18ec417	Electronics and Communication Engineering	BE 6th sem	7259632847	Female	11/16/2000
21	lavanya.venkatesh1999@gmail.com	Lavanya V	1DA18CS413	Computer Science Engineering	BE 6th sem	9663647570	Male	10/23/1999
22	mlokesha2@gmail.com	Lokesha	1DA19EI407	Electronics and Instrumentation Engineering	BE 4th Sem	8050248210	Female	6/10/1999
23	manojgowdago@gmail.com	Manoj R	1DA17EC076	Electronics and Communication Engineering	BE 6th sem	8151809213	Male	6/11/1999
24	muskansultanamussu2006@gmail.com	Muskan sultana	1DA19IS022	Information Science Engineering	BE 2nd Sem	9035225281	Male	5/22/1999
25	medhinisampemane@gmail.com	Medhini Sampemane	1DA19IS021	Information Science Engineering	BE 2nd Sem	9741763715	Female	6/20/2001
26	namitharao1999@gmail.com	Namitha Rao	1DA17CS089	Computer Science Engineering	BE 2nd Sem	9108850764	Female	12/15/2000
27	niki24111999@gmail.com	Nikita Ashok Shet	1DA17CS095	Computer Science Engineering	BE 6th sem	8317356957	Female	7/3/1999
28	paavanikomarla@dr-ait.org	Paavani Komarla	1DA17CS103	Computer Science Engineering	BE 6th sem	9113568498	Male	10/30/2000
29	poojabanavaras123@gmail.com	Pooja BS	1DA17CS108	Computer Science Engineering	BE 6th sem	8861659494	Female	9/11/1999
30	poojahamsa99@gmail.com	Pooja yadav P N	1DA18EC429	Electronics and Communication Engineering	BE 6th sem	9513025727	Female	12/26/1999
31	poojit.chowdry@gmail.com	Poojit Chowdry	1DA17CS110	Computer Science Engineering	BE 6th sem	7349456068	Female	12/30/1999
						9910043651	Male	11/5/1998

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33	pkohli515@gmail.com	PRASHANT	1DA18EC432	Electronics and Communication Engineering	BE 6th sem	7353666871	Male	12/1/1997
34	raj476ec@gmail.com	Prashanth Raj C S	1da18ec433	Electronics and Communication Engineering	BE 6th sem	8496011255	Male	6/21/1999
35	pratheepkumarnm26@gmail.com	PRATHEEPKUMAR NM	1DA18EC434	Electronics and Communication Engineering	BE 6th sem	9019699325	Male	9/22/1999
36	happysaint85@gmail.com	Pratik Sharma	1DA17CS117	Computer Science Engineering	BE 6th sem	8073413373	Male	2/23/2000
37	preranavshetty27@gmail.com	PRERANA V	1DA19IS025	Information Science Engineering	BE 2nd Sem	9986499325	Female	6/27/2001
38	prithvibadekkila1@gmail.com	Prithvi B	1DA17EC102	Electronics and Communication Engineering	BE 6th sem	9741017811	Male	8/28/1999
39	rajrajalakshmi39@gmail.com	Rajalakshmi N N	1DA19CS119	Computer Science Engineering	BE 2nd Sem	8884628299	Female	12/1/2002
40	rakshahande@gmail.com	Raksha S Hande	1DA17CS131	Computer Science Engineering	BE 6th sem	9481659342	Female	10/12/1998
41	rakshithkumar13sept@gmail.com	RAKSHITH J	1DA17EC113	Electronics and Communication Engineering	BE 6th sem	9483449164	Male	9/13/1999
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49	shashank09111999@gmail.com	SHASHANK B	1DA17EC126	Electronics and Communication Engineering	BE 6th sem	8971628295	Male	11/9/1999
50	shashankbbaragur@gmail.com	Shashank b baragur	1DA17EC127	Electronics and Communication Engineering	BE 6th sem	7411715223	Male	5/25/1999
51	shashibgs64@gmail.com	Shashi Kumar S	1DA18EC442	Electronics and Communication Engineering	BE 6th sem	9738614662	Male	3/3/2000
52	shravyamsgowda@gmail.com	Shravya MS	1DA17CS201	Computer Science and Engineering	BE 6th sem	9206561525	Female	11/14/1999
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55	srikanthrv1999@gmail.com	Srikanth R V	1DA17EC162	Electronics and Communication Engineering	BE 6th sem	8618486135	Male	4/16/1999
56	srinivasindian123@gmail.com	SRINIVAS BS	1DA17CS169	Computer Science Engineering	BE 6th sem	6360441761	Male	11/5/1999
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60	ksuraj626@gmail.com	Suraj S	1DA19IS048	Information Science Engineering	BE 2nd Sem	9844722941	Male	5/18/2001
61	vidhee6@gmail.com	Vidhee L Gujarati	1DA17EC150	Electronics and Communication Engineering	BE 6th sem	6360862259	Female	8/6/1999
62	kalasavijayalakshmi3677@gmail.com	Vijayalakshmi_kalasa	1DA19IS054	Information Science Engineering	BE 2nd Sem	8317360584	Female	3/20/2000
63	devadigavinutha14@gmail.com	VINUTHA VISHWANATHA DEVADIGA	1DA17CS193	Computer Science Engineering	BE 6th sem	9148670224	Female	8/25/1999

64	amyashasjawali@dr-ait.org	YASHAS JAWALI A M	1DA17CS196	Computer Science Engineering	BE 6th sem			
65	yashaswinikitty@gmail.com	YASHASWINI M K	1DA17CS198	Computer Science Engineering	BE 6th sem	9964640716	Male	2/1/2000
66	yatish100000@gmail.com	YATISH A	1DA17EC161	Electronics and Communication Engineering	BE 6th sem	9480940147	Female	9/18/1999
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Future Skills Training
On
CYBER SECURITY
SCHEDULE
From 22.07.2020 to 07.09.2020

Date	Time	Sessions	Topic	Trainer
DAY 1				
22-07-2020 Wednesday	3.00 PM - 4.00 PM	Session 1	Inauguration and Introduction	Principal
DAY 2				
23-07-2020 Thursday	11.00 AM- 12.00 PM	Session 2	Fundamentals of Computer Networks :Basic concepts of computer networks, network models, OSI	MC
	12.00 PM- 1 PM	Session 3		
DAY 3				
24-07-2020 Friday	11.00 AM- 12.00 PM	Session 4	TCP/IP, Layered architecture	MC
	12.00 PM- 1 PM	Session 5	Client Server architecture, Peer-to-Peer Architecture.	
DAY 4				
25-07-2020 Saturday	11.00 AM- 12.00 PM	Session 6	Application Layer: Working of WWW, E-Mail.	YCR
	12.00 PM- 1 PM	Session 7		

DAY 5				
27-07-2020 Monday	11.00 AM- 12.00 PM	Session 8	Working of TELNET, FTP, DNS And Secure Shell.	YCR
	12.00 PM- 1 PM	Session 9		
DAY 6				
28-07-2020 Tuesday	11.00 AM- 12.00 PM	Session 10	Working of Bit Torrent, and some other applications.	NS
	12.00 PM- 1 PM	Session 11	Architecture of E-Mail system, TELNET, DNS and WWW.	
DAY 7				
29-07-2020 Wednesday	11.00 AM- 12.00 PM	Session 12	Network Layer: Basic services used and provided by Physical Layer, Data link layer.	NS
	12.00 PM- 1 PM	Session 13		
DAY 8				
30-07-2020 Thursday	11.00 AM- 12.00 PM	Session 14	Basic services used and provided by network layer, transport layer, application layer.	SNS
	12.00 PM- 1 PM	Session 15		
DAY 9				
31-07-2020 Friday	11.00 AM- 12.00 PM	Session 16	Types of devices constituting a network.	SNS
	12.00 PM- 1 PM	Session 17	Concept of Internet Service Providers (ISPs) and overall conceptual view of the Internet.	
DAY 10				
01-08-2020 Saturday	11.00 AM- 12.00 PM	Session 18	Routing fundamentals. Different types of networks such as LAN, WAN, VPN, etc.	ASP
	12.00 PM- 1 PM	Session 19		
DAY 11				
03-08-2020 Monday	11.00 AM- 12.00 PM	Session 20	Essential for understanding cyber security: Cyber Security Concepts, Essential Terminologies.	ASP
	12.00 PM- 1 PM	Session 21		

DAY 12				
04-08-2020	11.00 AM- 12.00 PM	Session 22	Understanding meaning and differences in various terms such as Breaches, Threats, Attacks, Exploits, and others	MC
Tuesday	12.00 PM- 1 PM	Session 23		
DAY 13				
05-08-2020	11.00 AM- 12.00 PM	Session 24	Protocols and Cyber Security Vulnerabilities: Hyper Text Transfer Protocol (HTTP) and corresponding cyber security vulnerabilities. Various security attacks related to HTTP.	MC
Wednesday	12.00 PM- 1 PM	Session 25		
DAY 14				
06-08-2020	11.00 AM- 12.00 PM	Session 26	TCP, UDP, MAC.	YCR
Thursday	12.00 PM- 1 PM	Session 27		
DAY 15				
07-08-2020	11.00 AM- 12.00 PM	Session 28	IPv4, IPv6	YCR
Friday	12.00 PM- 1 PM	Session 29		
DAY 16				
08-08-2020	11.00 AM- 12.00 PM	Session 30	How to do sub netting, benefits of DHCP, and other related topics.	NS
Saturday	12.00 PM- 1 PM	Session 31		
DAY 17				
10-08-2020	11.00 AM- 12.00 PM	Session 32	Information Security and Cryptography: Various concepts of Cryptography. Symmetric key and Asymmetric key Cryptography.	NS
Monday	12.00 PM- 1 PM	Session 33		
DAY 18				
11-08-2020	11.00 AM- 12.00 PM	Session 34	Digital Signatures. Applications of Cryptography.	SNS
Tuesday	12.00 PM- 1 PM	Session 35		

DAY 19				
12-08-2020	11.00 AM- 12.00 PM	Session 36	OpenSSL. Hash Values Calculations MD5.	SNS
Wednesday	12.00 PM- 1 PM	Session 37		
DAY 20				
13-08-2020	11.00 AM- 12.00 PM	Session 38	SHA. Steganography.	ASP
Thursday	12.00 PM- 1 PM	Session 39		
DAY 21				
14-08-2020	11.00 AM- 12.00 PM	Session 40	Firewalls: Definition, Types of Firewalls, VPN Security. Security Protocols.	ASP
Friday	12.00 PM- 1 PM	Session 41		
DAY 22				
15-08-2020	11.00 AM- 12.00 PM	Session 42	Security at the Application Layer- PGP, S/MIME.	MC
Saturday	12.00 PM- 1 PM	Session 43		
DAY 23				
17-08-2020	11.00 AM- 12.00 PM	Session 44	Security at Transport Layer- SSL and TLS, Security at Network Layer-IPsec.	MC
Monday	12.00 PM- 1 PM	Session 45		
DAY 24				
18-08-2020	11.00 AM- 12.00 PM	Session 46	System and Server Security: DOS/ DDOS attacks. Introduction to System Security, Server Security.	YCR
Tuesday	12.00 PM- 1 PM	Session 47		
DAY 25				
19-08-2020	11.00 AM- 12.00 PM	Session 48	OS Security, Physical Security. Network packet Sniffing, Network Design Simulation.	YCR
Wednesday	12.00 PM- 1 PM	Session 49		

DAY 26				
20-08-2020	11.00 AM- 12.00 PM	Session 50	Various concepts of system and server security. Intrusion detection and prevention.	NS
Thursday	12.00 PM- 1 PM	Session 51		
DAY 27				
21-08-2020	11.00 AM- 12.00 PM	Session 52	Internet and cloud security. Cyber security vulnerabilities, safeguards	NS
Friday	12.00 PM- 1 PM	Session 53		
DAY 28				
22-08-2020	11.00 AM- 12.00 PM	Session 54	Malware Concepts: Basics of Malware and its types - Virus, Worms.	SNS
Saturday	12.00 PM- 1 PM	Session 55		
DAY 29				
24-08-2020	11.00 AM- 12.00 PM	Session 56	Malware types -Spywares, Ransom wares. Malware Analysis.	SNS
Monday	12.00 PM- 1 PM	Session 57		
DAY 30				
25-08-2020	11.00 AM- 12.00 PM	Session 58	Anti-virus protection. Malware Analysis using machine learning,	ASP
Tuesday	12.00 PM- 1 PM	Session 59		
DAY 31				
26-08-2020	11.00 AM- 12.00 PM	Session 60	Web Services and Cyber Laws: Basics of Web Services, SOAP, REST.	ASP
Wednesday	12.00 PM- 1 PM	Session 61		
DAY 32				
27-08-2020	11.00 AM- 12.00 PM	Session 62	Cyber laws and forensics, Cyber security regulations	MC
Thursday	12.00 PM- 1 PM	Session 63		

DAY 33				
28-08-2020	11.00 AM- 12.00 PM	Session 64	Role of design patterns. Software intensive systems.	MC
Friday	12.00 PM- 1 PM	Session 65		
DAY 34				
29-08-2020	11.00 AM- 12.00 PM	Session 66	Cyber Security and Machine Learning: Regression, Clustering, classification.	YCR
Saturday	12.00 PM- 1 PM	Session 67		
DAY 35				
31-08-2020	11.00 AM- 12.00 PM	Session 68	Association rule of learning, dimensionality reduction. Generative models, supervised, unsupervised.	YCR
Monday	12.00 PM- 1 PM	Session 69		
DAY 36				
01-09-2020	11.00 AM- 12.00 PM	Session 70	Semi-supervised, Reinforcement learning. Dimensionality reduction, generative models.	NS
Tuesday	12.00 PM- 1 PM	Session 71		
DAY 37				
02-09-2020	11.00 AM- 12.00 PM	Session 72	Cyber security Tasks and Machine Learning: prediction; prevention; detection; response; monitoring. (Network (network traffic analysis and intrusion detection); endpoint (anti-malware); application (WAF or database firewalls); user (UBA); process (anti-fraud). Security Check: in transit in real time; at rest; historically; etc.	NS
Wednesday	12.00 PM- 1 PM	Session 73		
DAY 38				
03-09-2020	11.00 AM- 12.00 PM	Session 74	Examples: Network Protection (regression, classification, clustering etc.); Endpoint Protection: classification for malware, spyware and ransomware; clustering for malware protection on secure email gateways (e.g., to separate legal file attachments from outliers); Application Security; User Behaviour; Process Behaviour	SNS
Thursday	12.00 PM- 1 PM	Session 75		

DAY 39				
04-09-2020	11.00 AM- 12.00 PM	Session 76	Cyber Security and Recent Technologies: Security aspects in IoT.	SNS
Friday	12.00 PM- 1 PM	Session 77		
DAY 40				
05-09-2020	11.00 AM- 12.00 PM	Session 78	Cloud Computing and Image/video data. Biometrics.	ASP
Saturday	12.00 PM- 1 PM	Session 79		
DAY 41				
07-09-2020	11.00 AM- 12.00 PM	Session 80	Mobile Computing and Hardening on android and iOS. Security, Android Malware Analysis.	ASP
Monday	12.00 PM- 1 PM	Session 81		
07-09-2020	1.00 PM- 1.30 PM	Session 81	Feedback Session and Valedictory	Coordinators
20 Practical Sessions will be conducted during 20-08-2020 to 30-9-2020				

Date	Time	Sessions	Topic	Trainer
DAY 1				
20-07-2020 Monday	10.30 AM -11.30 AM	Session 1	Inauguration and Introduction	Principal and HOD
	11.30 AM -12.30 PM			

DAY 2				
21-07-2020 Tuesday	11.00 AM- 12.00 PM	Session 2	Fundamentals of Computer Networks :Basic concepts of computer networks, network models, OSI	MC
	12.00 PM- 1 PM	Session 3		
DAY 3				
22-07-2020 Wednesday	11.00 AM- 12.00 PM	Session 4	TCP/IP, Layered architecture Client Server architecture, Peer-to-Peer Architecture.	MC
	12.00 PM- 1 PM	Session 5		
DAY 4				
23-07-2020 Thursday	11.00 AM- 12.00 PM	Session 6	Application Layer: Working of WWW, E-Mail.	YCR
	12.00 PM- 1 PM	Session 7		
DAY 5				
24-07-2020 Friday	11.00 AM- 12.00 PM	Session 8	Working of TELNET, FTP, DNS And Secure Shell.	YCR
	12.00 PM- 1 PM	Session 9		
DAY 6				
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	12.00 PM- 1 PM	Session 11		
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	12.00 PM- 1 PM	Session 13		
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DAY 9				
29-07-2020	11.00 AM- 12.00 PM	Session 16	Types of devices constituting a network.	SNS

Wednesday	12.00 PM- 1 PM	Session 17	Concept of Internet Service Providers (ISPs) and overall conceptual view of the Internet.	
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	12.00 PM- 1 PM	Session 21		
DAY 12				
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DAY 13				
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	12.00 PM- 1 PM	Session 25		
DAY 14				
05-08-2020 Wednesday	11.00 AM- 12.00 PM	Session 26	TCP, UDP, MAC.	YCR
	12.00 PM- 1 PM	Session 27		
DAY 15				
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DAY 16				

07-08-2020 Friday	11.00 AM- 12.00 PM	Session 30	How to do sub netting, benefits of DHCP, and other related topics.	NS
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10-08-2020 Monday	11.00 AM- 12.00 PM	Session 34	Digital Signatures. Applications of Cryptography.	SNS
	12.00 PM- 1 PM	Session 35		
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11-08-2020 Tuesday	11.00 AM- 12.00 PM	Session 36	OpenSSL. Hash Values Calculations MD5.	SNS
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	12.00 PM- 1 PM	Session 41		
DAY 22				
14-08-2020 Friday	11.00 AM- 12.00 PM	Session 42	Security at the Application Layer- PGP, S/MIME.	MC
	12.00 PM- 1 PM	Session 43		
DAY 23				
15-08-2020 Saturday	11.00 AM- 12.00 PM	Session 44	Security at Transport Layer- SSL and TLS, Security at Network Layer- IPsec.	MC
	12.00 PM- 1 PM	Session 45		
DAY 24				

17-08-2020 Monday	11.00 AM- 12.00 PM	Session 46	System and Server Security: DOS/ DDOS attacks. Introduction to System Security, Server Security.	YCR
	12.00 PM- 1 PM	Session 47		
DAY 25				
18-08-2020 Tuesday	11.00 AM- 12.00 PM	Session 48	OS Security, Physical Security. Network packet Sniffing, Network Design Simulation.	YCR
	12.00 PM- 1 PM	Session 49		
DAY 26				
19-08-2020 Wednesday	11.00 AM- 12.00 PM	Session 50	Various concepts of system and server security. Intrusion detection and prevention.	NS
	12.00 PM- 1 PM	Session 51		
DAY 27				
20-08-2020 Thursday	11.00 AM- 12.00 PM	Session 52	Internet and cloud security. Cyber security vulnerabilities, safeguards	NS
	12.00 PM- 1 PM	Session 53		
DAY 28				
21-08-2020 Friday	11.00 AM- 12.00 PM	Session 54	Malware Concepts: Basics of Malware and its types - Virus, Worms. Trojans, Rootkits, Robots, Adware's.	SNS
	12.00 PM- 1 PM	Session 55		
DAY 29				
22-08-2020 Saturday	11.00 AM- 12.00 PM	Session 56	Malware types -Spywares, Ransom wares. Malware Analysis.	SNS
	12.00 PM- 1 PM	Session 57		
DAY 30				
24-08-2020 Monday	11.00 AM- 12.00 PM	Session 58	Anti-virus protection. Malware Analysis using machine learning,	ASP
	12.00 PM- 1 PM	Session 59		
DAY 31				
25-08-2020 Tuesday	11.00 AM- 12.00 PM	Session 60	Web Services and Cyber Laws: Basics of Web Services, SOAP, REST.	ASP
	12.00 PM- 1 PM	Session 61		
DAY 32				

26-08-2020 Wednesday	11.00 AM- 12.00 PM	Session 62	Cyber laws and forensics, Cyber security regulations	MC
	12.00 PM- 1 PM	Session 63		
DAY 33				
27-08-2020 Thursday	11.00 AM- 12.00 PM	Session 64	Role of design patterns. Software intensive systems.	MC
	12.00 PM- 1 PM	Session 65		
DAY 34				
28-08-2020 Friday	11.00 AM- 12.00 PM	Session 66	Cyber Security and Machine Learning: Regression, Clustering, classification.	YCR
	12.00 PM- 1 PM	Session 67		
DAY 35				
29-08-2020 Saturday	11.00 AM- 12.00 PM	Session 68	Association rule of learning, dimensionality reduction. Generative models, supervised, unsupervised.	YCR
	12.00 PM- 1 PM	Session 69		
DAY 36				
31-08-2020 Monday	11.00 AM- 12.00 PM	Session 70	Semi-supervised, Reinforcement learning. Dimensionality reduction, generative models.	NS
	12.00 PM- 1 PM	Session 71		
DAY 37				
01-09-2020 Tuesday	11.00 AM- 12.00 PM	Session 72	Cyber security Tasks and Machine Learning: prediction; prevention; detection; response; monitoring. (Network (network traffic analysis and intrusion detection); endpoint (anti-malware); application (WAF or database firewalls); user (UBA); process (anti-fraud). Security Check: in transit in real time; at rest; historically; etc.	NS
	12.00 PM- 1 PM	Session 73		
DAY 38				
02-09-2020 Wednesday	11.00 AM- 12.00 PM	Session 74	Examples: Network Protection (regression, classification, clustering etc.); Endpoint Protection: classification for malware, spyware and ransomware; clustering for malware protection on secure email gateways (e.g., to separate legal file attachments from outliers); Application Security; User Behaviour; Process Behaviour	SNS
	12.00 PM- 1 PM	Session 75		
DAY 39				
03-09-2020 Thursday	11.00 AM- 12.00 PM	Session 76	Cyber Security and Recent Technologies: Security aspects in IoT.	SNS
	12.00 PM- 1 PM	Session 77		

DAY 40				
04-09-2020 Friday	11.00 AM- 12.00 PM	Session 78	Cloud Computing and Image/video data. Biometrics.	ASP
	12.00 PM- 1 PM	Session 79		
DAY 41				
05-09-2020 Saturday	9.30 AM- 10.30AM	Session 80	Mobile Computing and Hardening on android and iOS. Security, Android Malware Analysis.	ASP
	10.30 AM- 11.30AM	Session 81		
DAY 42				
05 -09-2020 Saturday	12.00PM- 1.00 PM	Session 82	Feedback Session and Valedictory	Coordinators
20 Practical Sessions will be conducted during 07-09-2020 to 30-9-2020				

Trainers

1	Dr.Yamuna Devi (YCR) Associate Professor and Head Dept. of TCE Dr.AIT Bengakuru-56.
2	Dr.Mary Cherian(MC) Professor Dept. of CSE Dr.AIT Bengakuru-56.
3	Ms.Nithyashree S(NS) Assistant Professor Dept. of ECE Dr.AIT Bengakuru-56.

4	Ms.Spoorthi P A.(ASP) Assistant Professor Dept. of ECE Dr.AIT Bengakuru-56.
5	Ms.Sujay S N (SNS) Assistant Professor Dept. of ECE Dr.AIT Bengakuru-56.

Course: Cyber Security	Trainer:
Student Attendance	Spoorthi P A

Sl. No.	Student Name	USN	01-08-2020	03-08-2020	13-08-2020	14-08-2020	16-11-2020	17-11-2020	18-11-2020	19-11-2020
1	Aditya Tiwari	1DA17IS002	1	2	3	4	5	6	7	8
2	Akshaya K	1DA17CS010	1	2	3	4	5	6	7	8
3	Amogha S	1DA17CS013	1	2	2	3	4	5	6	7
4	Anagha Ajoykumar	1DA17CS014	1	2	3	4	5	6	7	7
5	Anagha Anand	1DA17EC011	1	2	3	4	5	6	7	8
6	ANUPAMA A S	1DA18CS019	1	2	3	4	5	6	7	7
7	Anusha.M.G	1DA19CS016	1	2	3	4	5	6	7	8
8	Chaithanya J Umashankar	1DA19IS007	0	2	3	4	5	6	7	8
9	Chandana K	1DA17CS034	1	2	3	4	5	6	7	7
10	D M SRUJAN GOWDA	1DA17EC137	1	2	3	4	5	6	7	8
11	Darshan C R	1DA18EC410	1	2	3	4	5	6	7	8
12	Darshith.S	1DA19IS010	1	2	3	4	4	5	6	7
13	Deepak S R	1DA18CS044	1	2	3	4	5	6	7	8
14	JAYAM SURENDRA SINDHU	1DA17CS058	1	2	3	4	5	6	7	8
15	Kartik	1DA18CS062	1	2	3	4	5	6	7	7
16	Kavita Nagaraj Prabhu	1DA18TE015	1	2	3	4	5	6	7	8
17	KAVYA H C	1DA18EC415	1	2	3	4	5	6	7	8
18	Kavya PN	1DA18EC416	1	2	3	4	5	6	7	7
19	Kavya. V	1DA19IS016	1	2	3	4	5	6	7	8
20	Kirankumar B M	1da18ec417	1	2	3	4	5	6	7	8
21	Lavanya V	1DA18CS413	1	2	3	4	5	6	7	8
22	Lokesha	1DA19EI407	1	2	3	4	5	6	6	7
23	Manoj R	1DA17EC076	1	2	3	4	5	6	7	8
24	Muskan sultana	1DA19IS022	1	2	3	4	5	6	7	8
25	Medhini Sampemane	1DA19IS021	1	2	3	4	5	6	7	8
26	Namitha Rao	1DA17CS089	1	2	3	4	5	6	7	8

27	Nikita Ashok Shet	1DA17CS095	1	2	3	4	4	5	6	7
28	Paavani Komarla	1DA17CS103	1	2	3	4	5	6	7	8
29	Pooja BS	1DA17CS108	1	2	3	4	5	6	7	8
30	Pooja yadav P N	1DA18EC429	1	2	3	4	5	6	7	8
31	Poojit Chowdry	1DA17CS110	1	2	3	4	5	6	7	8
32	Prajwal	1DA18TE028	1	2	3	4	5	6	7	8
33	PRASHANT	1DA18EC432	1	2	3	4	5	6	7	8
34	Prashanth Raj C S	1da18ec433	1	2	3	4	5	6	7	8
35	PRATHEEPKUMAR NM	1DA18EC434	1	2	3	4	5	6	7	8
36	Pratik Sharma	1DA17CS117	1	2	3	4	5	6	7	8
37	PRERANA V	1DA19IS025	1	2	3	4	5	6	7	8
38	Prithvi B	1DA17EC102	1	2	3	4	5	6	7	8
39	Rajalakshmi N N	1DA19CS119	1	2	3	4	5	5	6	7
40	Raksha S Hande	1DA17CS131	1	2	3	4	5	6	7	8
41	RAKSHITH J	1DA17EC113	1	2	3	4	4	5	6	7
42	Rashmi MN	1DA19IS030	1	2	3	4	5	6	7	8
43	RESHMA RAO C H	1DA19IS031	1	2	3	4	5	6	7	8
44	Roopashree B R	1DA17EC117	1	2	3	4	5	6	7	8
45	SACHIN B	1DA18EC438	1	2	3	4	5	6	7	8
46	Sandhya M V	1DA17EC121	1	2	3	4	4	5	6	7
47	Sharath kumara H S	1DA18EC441	1	2	3	4	5	6	7	8
48	SENTHILANAND P	1DA17CS153	1	2	3	4	5	6	7	8
49	SHASHANK B	1DA17EC126	1	2	3	4	5	6	7	8
50	Shashank b baragur	1DA17EC127	1	2	3	4	5	6	7	8
51	Shashi Kumar S	1DA18EC442	1	2	3	4	5	6	7	7
52	Shravya MS	1DA17CS201	1	2	3	4	5	6	7	8
53	SHRUSTI	1DA17CS160	1	2	3	4	5	6	7	8
54	Shilpa M	1DA17EC129	1	2	3	4	5	6	7	8
55	Srikanth R V	1DA17EC162	1	2	3	4	5	6	7	8
56	SRINIVAS BS	1DA17CS169	1	2	3	4	5	6	7	7
57	SUHAS S R	1DA17CS173	1	2	3	4	5	6	7	8
58	Suma M N	1DA17CS175	1	2	3	4	5	6	7	8
59	Supritha M Bhatt	1DA17CS177	1	2	3	4	5	6	7	8
60	Suraj S	1DA19IS048	1	2	3	4	5	6	7	8

61	Vidhee L Gujarati	1DA17EC150	1	2	3	4	5	6	7	7
62	Vijaylakshmi_kalasa	1DA19IS054	1	2	3	4	5	6	7	8
63	VINUTHA VISHWANATHA DEVADIGA	1DA17CS193	1	2	3	4	5	6	7	8
64	YASHAS JAWALI A M	1DA17CS196	1	2	3	4	5	6	7	8
65	YASHASWINI M K	1DA17CS198	1	2	3	4	5	6	7	7
66	YATISH A	1DA17EC161	1	2	3	4	5	6	7	7
67	Yogesh A Gowda	1DA19IS057	1	2	3	4	5	6	7	8

Course: Cyber Security

Student Attendance

Sl. No.	Student Name	USN	25-07-2020	27-07-2020	06-08-2020
1	Aditya Tiwari	1DA17IS002	1	2	3
2	Akshaya K	1DA17CS010	1	2	3
3	Amogha S	1DA17CS013	1	2	3
4	Anagha Ajoykumar	1DA17CS014	1	2	3
5	Anagha Anand	1DA17EC011	1	2	3
6	ANUPAMA A S	1DA18CS019	1	2	3
7	Anusha.M.G	1DA19CS016	1	2	3
8	Chaithanya J Umashankar	1DA19IS007	1	2	3
9	Chandana K	1DA17CS034	1	2	3
10	D M SRUJAN GOWDA	1DA17EC137	1	2	3
11	Darshan C R	1DA18EC410	1	2	3
12	Darshith.S	1DA19IS010	1	2	3
13	Deepak S R	1DA18CS044	1	2	3
14	JAYAM SURENDRA SINDHU	1DA17CS058	1	2	3
15	Kartik	1DA18CS062	1	2	3
16	Kavita Nagaraj Prabhu	1DA18TE015	1	2	3
17	KAVYA H C	1DA18EC415	1	2	3
18	Kavya PN	1DA18EC416	1	2	3
19	Kavya. V	1DA19IS016	1	2	3
20	Kirankumar B M	1da18ec417	1	2	3
21	Lavanya V	1DA18CS413	1	2	3
22	Lokesha	1DA19EI407	1	2	3
23	Manoj R	1DA17EC076	1	2	3
24	Muskan sultana	1DA19IS022	1	2	3
25	Medhini Sampemane	1DA19IS021	1	2	3
26	Namitha Rao	1DA17CS089	1	2	3
27	Nikita Ashok Shet	1DA17CS095	0	1	2
28	Paavani Komarla	1DA17CS103	1	2	3
29	Pooja BS	1DA17CS108	0	1	2
30	Pooja yadav P N	1DA18EC429	1	2	3
31	Poojit Chowdry	1DA17CS110	1	2	3
32	Prajwal	1DA18TE028	1	2	3
33	PRASHANT	1DA18EC432	1	2	3
34	Prashanth Raj C S	1da18ec433	1	2	3
35	PRATHEEPKUMAR NM	1DA18EC434	1	2	3
36	Pratik Sharma	1DA17CS117	1	2	3
37	PRERANA V	1DA19IS025	1	2	3
38	Prithvi B	1DA17EC102	1	2	3
39	Rajalakshmi N N	1DA19CS119	1	2	3
40	Raksha S Hande	1DA17CS131	1	2	3
41	RAKSHITH J	1DA17EC113	1	2	3

42	Rashmi MN	1DA19IS030	1	2	3
43	RESHMA RAO C H	1DA19IS031	1	2	3
44	Roopashree B R	1DA17EC117	1	2	3
45	SACHIN B	1DA18EC438	1	2	3
46	Sandhya M V	1DA17EC121	1	2	3
47	Sharath kumara H S	1DA18EC441	1	2	3
48	SENTHILANAND P	1DA17CS153	1	2	3
49	SHASHANK B	1DA17EC126	1	2	3
50	Shashank b baragur	1DA17EC127	1	2	3
51	Shashi Kumar S	1DA18EC442	1	2	3
52	Shravya MS	1DA17CS201	1	2	3
53	SHRUSTI	1DA17CS160	1	2	3
54	Shilpa M	1DA17EC129	1	2	3
55	Srikanth R V	1DA17EC162	1	2	3
56	SRINIVAS BS	1DA17CS169	1	2	3
57	SUHAS S R	1DA17CS173	1	2	3
58	Suma M N	1DA17CS175	1	2	3
59	Supritha M Bhatt	1DA17CS177	1	2	3
60	Suraj S	1DA19IS048	1	2	3
61	Vidhee L Gujarati	1DA17EC150	1	2	3
62	Vijaylakshmi_kalasa	1DA19IS054	1	2	3
63	VINUTHA VISHWANATHA DEVADIGA	1DA17CS193	1	2	3
64	YASHAS JAWALI A M	1DA17CS196	1	2	3
65	YASHASWINI M K	1DA17CS198	1	2	3
66	YATISH A	1DA17EC161	1	2	3
67	Yogesh A Gowda	1DA19IS057	1	2	3

BIOGRAPHY

Name: - SPOORTHI P A

Designation: Assistant Professor

Dept.: Electronics & Communication Engineering

SPOORTHI P A received B.E degree in Electronics and Communication Engg. During 2013 from Dr.AIT, under VTU. Received M.Tech. in “Digital Communication” in the year 2015 from MSRIT, Affiliated to VTU. Pursuing PhD ON “An optimized image prediction with hybrid approach to estimate crop yields data using Deep learning” under VTU, Belagavi.

Research field is Digital communication,Image Processing.Presently working as Assistant Professor in Dr. Ambedkar Institute of Technology, Bangalore, India. Has teaching experience of 7yrs.

Has 04 International journal publications,03 National Conference, Member of the Professional bodies like AICTE, IEEE, ISTE. Has attended totally about 15 FDP's, workshops, Short term courses. Organized 3 FDP's / workshop.

BIOGRAPHY

Name: - S Nithyashree

Designation: Assistant Professor

Dept.: Electronics & Communication Engineering

S.Nithyashree received B.E degree in Electronics and Communication Engg. During 2008 from VTU. Received MTech. in “Digital Communication and Networking” in the year 2012 from Dr.AIT, Bengaluru under VTU. Pursuing PhD under VTU, Belagavi.

Research field is wireless communication, sensors, Networking, IOT. Presently working as Assistant Professor in Dr. Ambedkar Institute of Technology, Bengaluru, India. Has teaching experience of 10.5yrs.

Has 8 International journal publications,8 National Conference, Member of the Professional bodies like ISTE, IAENG, ICSIT . Has attended totally about 25 FDP’s, workshops, Short term courses. Organized 3 FDP’s / workshop.



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

sl.no	Email Id	Name	USN	College name	Father name	Gender	Date of birth	Branch
Future skills on ARTIFICIAL INTELLIGENCE and MACHINE LEARNING Student List for Future skills on ARTIFICIAL INTELLIGENCE and MACHINE LEARNING								
1	maglinarun04@gmail.com	Maglin Mandro. A	1DA16CS071	Ambedkar Institute of Technology	Arun Kumar. M	Female	17-04-1998	Computer science
2	shravannavaneeth01@gmail.com	Shravan Navaneeth Kumar	1DA17IS032	Dr Ambedkar Institute of Technology	A Navaneeth Kumar	Male	01-07-1999	Information science engineering
3	amithvhiremath@gmail.com	Amith V Hiremath	1DA17IS048	Dr Ambedkar Institute of Technology	Veeresh S Hiremath	Male	15-02-1999	Information Science and Engineering
4	csrinath622@gmail.com	SRINATH C	1DA18ME437	Dr Ambedkar Institute of Technology	CHANDRASHEK AR	Male	25-09-1998	MECHANICAL ENGINEERING
5	ashwinih5557@gmail.com	Ashwini H	1DA17EC018	Dr Ambedkar Institute of Technology	Hemegowda	Female	26-11-1999	Electronics and communication engineering
6	charanabhishekhk@gmail.com	CHARAN ABHISHEK H K	1DA18ME406	Dr Ambedkar Institute of Technology	KARIYAPPA L	Male	03-08-1999	MECHANICAL ENGINEERING
7	jagadeeshmj92829@gmail.com	JAGADEESHAYYA	1DA18ME414	Dr Ambedkar Institute of Technology	VIRUPAXAYYA BALIGERI	Male	30-06-1995	Mechanical engineering

Future skills on ARTIFICIAL INTELLIGENCE and MACHINE LEARNING
 Student List for Future skills on ARTIFICIAL INTELLIGENCE and MACHINE LEARNING

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9	hemajagdeesh9@gmail.com	Hemalatha n j	1DA18CS409	Dr Ambedkar Institute of Technology	JAGADEESH	Female	04-08-1997	Computer science (CSE)
10	sushmag7147@gmail.com	Sushma G	1DA17IS040	Dr Ambedkar Institute of Technology	G Jagannath Reddy	Female	22-01-1999	ISE
11	prithvibadekkila1@gmail.com	Prithvi B	1DA17EC102	Dr Ambedkar Institute of Technology	Ravishankar B	Male	28-08-1999	Electronics and communication
12	varunkuma3214@gmail.com	Varun Kumar G	1DA17EC147	Dr Ambedkar Institute of Technology	Gopinath V	Male	14-02-2000	Electronics and communication
13	gajangowdaab@gmail.com	Gajan Gowda A B	1DA17EC040	Dr Ambedkar Institute of Technology	Bheemesha	Male	03-02-1999	Electronics and communication engineering
14	itsdeepakdeepu50@gmail.com	Deepak T V	1DA17EC034	Dr Ambedkar Institute of Technology	Venkataravanappa T	Male	28-08-1999	Electronics and Communication Engineering
15	chandanashree.amar@gmail.com	Chandanashree A	1DA17EC028	Dr Ambedkar Institute of Technology	Amaranarayana chari Y V	Female	06-07-1999	Electronics and communication engineering (ECE)

Future skills on ARTIFICIAL INTELLIGENCE and MACHINE LEARNING
 Student List for **Future skills on ARTIFICIAL INTELLIGENCE and MACHINE LEARNING**

16	keerthana.k1999@gmail.com	K Keerthana	1DA17CS061	Dr Ambedkar Institute of Technology	S V Kumar	Female	25-08-1999	Computer Science
17	dharanireddy1@gmail.com	D DHARANI	1DA17EC030	Dr Ambedkar Institute of Technology	D Venkataramana reddy	Female	02-03-2000	ELECTRONICS AND COMMUNICATION
18	gauravnkawale@gmail.com	Gaurav N Kawale	1DA17EC042	Dr Ambedkar Institute of Technology	Namdev P Kawale	Male	09-05-1999	ECE
19	nishanth050499@gmail.com	Nishanth B	1DA17IS020	Dr Ambedkar Institute of Technology	G Babu	Male	05-04-1999	ISE
20	divyadevadiga1499@gmail.com	Divyashree U	1DA17EC038	Dr Ambedkar Institute of Technology	Umesh B	Female	14-04-1999	ECE
21	aspasu12@gmail.com	Abhishek Pasumarthi	1DA17ME002	Dr Ambedkar Institute of Technology	Sekhar P	Male	23-01-2000	Mechanical
22	amruthabp292@gmail.com	Amrutha BP	1DA17EC010	Dr Ambedkar Institute of Technology	K R Prabhakar	Female	16-02-1999	Electronics and communication engineering
23	bashrinivas@gmail.com	Shrinivas ba	1DA17TE045	Dr Ambedkar Institute of Technology	Basanagouda	Male	15-06-1999	Telecommunication

Future skills on ARTIFICIAL INTELLIGENCE and MACHINE LEARNING
 Student List for Future skills on ARTIFICIAL INTELLIGENCE and MACHINE LEARNING

24	shashankhebbbar49@gmail.com	Shashank Hebbbar S	1DA18ME434	Dr Ambedkar Institute of Technology	Shankar K Hebbbar	Male	06-12-1998	ME
25	vidhee6@gmail.com	Vidhee L Gujarati	1DA17EC150	Dr Ambedkar Institute of Technology	Lalit Kumar	Female	06-08-1999	ECE
26	yogeshwarij2000@gmail.com	Yogeshwari J	1DA18CS437	Dr Ambedkar Institute of Technology	Jayaram	Female	17-05-2000	Computer science and engineering
27	mrwaseem509@gmail.com	Syed Waseem	1DA18CS435	Dr Ambedkar Institute of Technology	Syed Yakhoob	Male	13-09-1996	Computer Science and Engineering
28	harshachoudhary512@gmail.com	Harsha Choudhary	1DA17IS012	Dr Ambedkar Institute of Technology	Pramod Kumar Choudhary	Male	04-10-1998	Information Science And Engineering
29	supriyak4215@gmail.com	Supriya K	1DA17EC140	Dr Ambedkar Institute of Technology	Krishnappa N	Female	31-07-1999	Electronics and communication
30	shashank09111999@gmail.com	Shashank B	1DA17EC126	Dr Ambedkar Institute of Technology	Bheemaraj Y	Male	09-11-1999	Electronics and Communication engineering
31	meghanar1497@gmail.com	Meghana R	1DA16IS017	Dr Ambedkar Institute of Technology	Raghu	Female	02-06-1998	Information science and engineering

Future skills on ARTIFICIAL INTELLIGENCE and MACHINE LEARNING
 Student List for Future skills on ARTIFICIAL INTELLIGENCE and MACHINE LEARNING

32	jyothig1642000@gmail.com	Jyothi g	1da18cs411	Dr Ambedkar Institute of Technology	gangaveerabhad regowda	Female	16-04-2000	computer science
33	poojabillava99@dr-ait.org	Pooja	1DA17CS107	Dr Ambedkar Institute of Technology	Gopala Poojary	Female	17-11-1999	Cse
34	lavanya.venkatesh1999@gmail.com	Lavanya V	1DA18CS413	Dr Ambedkar Institute of Technology	Venkatesh M	Female	10-06-1999	CSE
35	sathwikvu@dr-ait.org	Sathwik V U	1DA17CS151	Dr Ambedkar Institute of Technology	Veeraiah L U	Male	21-10-1999	Computer science engineering
36	kirankc151@gmail.com	KIRAN K C	1DA17EC059	Dr Ambedkar Institute of Technology	Chinnaswamy	Male	17-03-1999	Electronics and communication
37	mansoorpasha03111999@gmail.com	MANSOOR PASHA	1DA17EC077	Dr Ambedkar Institute of Technology	Mahboob Pasha	Male	03-11-1999	Electronics and Communication Engineering
38	chandanchinnu2426@gmail.com	Chandan S	1DA17EC027	Dr Ambedkar Institute of Technology	Siddesh D S	Male	06-07-1999	ECE
39	saraswathim4493@gmail.com	Saraswathi M	1DA18CS424	Dr Ambedkar Institute of Technology	Marugappa	Female	04-08-1998	Computer Science and Engineering

Future skills on ARTIFICIAL INTELLIGENCE and MACHINE LEARNING
 Student List for **Future skills on ARTIFICIAL INTELLIGENCE and MACHINE LEARNING**

40	geethu1325@gmail.com	Geetha P	1DA17EC043	Dr Ambedkar Institute of Technology	Prakash S B	Female	25-05-2000	ECE
41	bdtvikarthik@gmail.com	Karthik S	1DA17EC055	Dr Ambedkar Institute of Technology	Shelvaraju R	Male	29-03-1999	Electronics and Communication Engineering
42	paddupaddu267@gmail.com	PADMANABHAM K G	1DA18CS419	Dr Ambedkar Institute of Technology	RAGHUPATHI	Male	26-07-1998	Computer science and engineering
43	gururajgs14@gmail.com	Gururaj L	1DA18CS408	Dr Ambedkar Institute of Technology	Lokesh T S	Male	14-12-1999	Computer science and Engineering
44	tasmiyakm.ckm@gmail.com	Tasmiya K M	1DA17CS199	Dr Ambedkar Institute of Technology	Muneer Ahmed	Female	10-03-2000	Computer science
45	sinchanapgowda444@gmail.com	Sinchana P	1DA17CS165	Dr Ambedkar Institute of Technology	Puttaswamygowda	Female	04-01-2000	CSE

1. Module 01: Fundamentals of Modern AI
 - History of AI
 - Mathematical Basics (Linear Algebra, Probability)
 - Classical AI (Search Algorithms)
 - Basics of ML (Classification, Regression, Clustering)
2. Module 02: Deep Learning
 - Neural Networks
 - Back Propagation
 - Deep Learning Architectures
 - Training DNNs and Hyper Parameters
 - Unsupervised Deep Learning
3. Module 03: Perception
 - Problems related to
 - Text
 - Images
 - Speech
4. Module 04: Planning
 - Planning under Uncertainty
 - Markov Decision Processes
 - Partially Observable MDPs
 - Multi Agent Systems

Future skills on ARTIFICIAL INTELLIGENCE and MACHINE LEARNING

Date	Time	Sessions	Topics	Trainers	Venue/Teaching Methodology
10-03-2021	10.30-1130.AM		Inauguration	HOD,TEQIP Coordinator,Dr Shivputra,Harsha.R	Seminar Hall C-302
	1130-12.30 PM	Session 1	Module 1-History of Artificial Intelligence:	Harsha.R	Seminar Hall C-302 Offline Mode
	12.30-1.30 PM	Session 2	Mathematical Basics: Linear Algebra	Harsha.R	Seminar Hall C-302 Offline Mode
	2.00-3.00 PM	Session 3	Mathematical Basics: Linear Algebra	Harsha.R	Seminar Hall C-302 Offline Mode
	3.00-4.00PM	Session 4	Mathematical Basics: Probability 1	Dr Shivputra	Seminar Hall C-302 Offline Mode
12-03-2021	10.30-1130.AM	Session 5	Mathematical Basics: Probability 2	Dr Shivputra	Seminar Hall C-302 Offline Mode
	1130-12.30 PM	Session 6	Mathematical Basics: Probability	Dr Shivputra	Seminar Hall C-302 Offline Mode
	12.30-1.30 PM	Session 7	Introduction to Machine Learning	Harsha.R	Seminar Hall C-302 Offline Mode
	2.00-3.00 PM	Session 8	Classical AI: Search Algorithms	Dr Shivputra	Seminar Hall C-302 Offline Mode
	3.00-4.00PM	Session 9	Classical AI: Search Algorithms 2:	Harsha.R	Seminar Hall C-302 Offline Mode
13-03-2021	10.30-1130.AM	Session 10	Computing Basics using Python 1:	Harsha.R	Seminar Hall C-302 Offline Mode
	1130-12.30 PM	Session 11	Computing Basics using Python 2:	Harsha.R	Seminar Hall C-302 Offline Mode
	12.30-1.30 PM	Session 12	Basics of ML: Regression 1	Harsha.R	Seminar Hall C-302 Offline Mode

Future skills on ARTIFICIAL INTELLIGENCE and MACHINE LEARNING

	2.00-3.00 PM	Session 13	Basics of ML: Regression 2	Harsha.R	Seminar Hall C-302 Offline Mode
	3.00-4.00PM	Session 14	Basics of ML: Classification - Naive Bayes	Harsha.R	Seminar Hall C-302 Offline Mode
15-03-2021	10.30-1130.AM	Session 15	Basics of ML: Classification - SVM	Harsha.R	Seminar Hall C-302 Offline Mode
	1130-12.30 PM	Session 16	Machine Learning with Python 1	Harsha.R	Seminar Hall C-302 Offline Mode
	12.30-1.30 PM	Session 17	Machine Learning with Python 2	Harsha.R	Seminar Hall C-302 Offline Mode
	2.00-3.00 PM	Session 18	Basics of ML: Clustering 1	Harsha.R	Seminar Hall C-302 Offline Mode
	3.00-4.00PM	Session 19	Basics of ML: Clustering 2	Harsha.R	Seminar Hall C-302 Offline Mode
16-03-2021	10.30-1130.AM	Session 20	Neural Networks 1	Dr Shivputra	Seminar Hall C-302 Offline Mode
	1130-12.30 PM	Session 21	Neural Networks 2	Dr Shivputra	Seminar Hall C-302 Offline Mode
	12.30-1.30 PM	Session 22	Neural Networks 3	Dr Shivputra	Seminar Hall C-302 Offline Mode
	2.00-3.00 PM	Session 23	Clustering with Python	Harsha.R	Seminar Hall C-302 Offline Mode
	3.00-4.00PM	Session 24	Clustering with Python	Harsha.R	Seminar Hall C-302 Offline Mode
17-03-2021	10.30-1130.AM	Session 25	Clustering with Python	Dr Shivputra	Seminar Hall C-302 Offline Mode
	1130-12.30 PM	Session 26	Back Propagation	Dr Shivputra	Seminar Hall C-302 Offline Mode
	12.30-1.30 PM	Session 27	Back Propagation	Dr Shivputra	Seminar Hall C-302 Offline Mode
	2.00-3.00 PM	Session 28	Deep Learning Architectures	Harsha.R	Seminar Hall C-302 Offline Mode
	3.00-4.00PM	Session 29	Deep Learning Architectures	Harsha.R	Seminar Hall C-302 Offline Mode
17-03-2021	10.30-1130.AM	Session 30	Classification K-NN	Dr Shivputra	Seminar Hall C-302 Offline Mode
	1130-12.30 PM	Session 31	3D Face Recognition Using Deep Learning	Dr Shivputra	Seminar Hall C-302 Offline Mode
	12.30-1.30 PM	Session 32	3D Face Recognition Using Deep Learning	Dr Shivputra	Seminar Hall C-302 Offline Mode
	2.00-3.00 PM	Session 33	Applications of AI-ML	Harsha.R	Seminar Hall C-302 Offline Mode

Future skills on ARTIFICIAL INTELLIGENCE and MACHINE LEARNING

	3.00-4.00PM	Session 34	Adversarial Learning for Knowledge Integration from Weakly Labelled Datasets	Harsha.R	Seminar Hall C-302 Offline Mode
18-03-2021	10.30-1130.AM	Session 35	Random Forest 1	Dr Shivputra	Seminar Hall C-302 Offline Mode
	1130-12.30 PM	Session 36	Random Forest 2	Dr Shivputra	Seminar Hall C-302 Offline Mode
	12.30-1.30 PM	Session 37	Deep Learning: Image Classification 1	Dr Shivputra	Seminar Hall C-302 Offline Mode
	2.00-3.00 PM	Session 38	Deep Learning: Image Classification 2	Dr Shivputra	Seminar Hall C-302 Offline Mode
	3.00-4.00PM	Session 39	Deep Learning: Image Classification 3	Dr Shivputra	Seminar Hall C-302 Offline Mode
19-03-2021	10.30-1130.AM	Session 40	Markov Decision Process 1	Dr Shivputra	Seminar Hall C-302 Offline Mode
	1130-12.30 PM	Session 41	Markov Decision Process 2	Dr Shivputra	Seminar Hall C-302 Offline Mode
	12.30-1.30 PM	Session 42	Multi-Agent System	Harsha.R	Seminar Hall C-302 Offline Mode
	2.00-3.00 PM	Session 43	Unsupervised Deep Learning	Dr Shivputra	Seminar Hall C-302 Offline Mode
	HOME ASSIGNMENT	Session 44	Mini Project 1	Harsha.R	Seminar Hall C-302 Offline Mode
	HOME ASSIGNMENT	Session 45	Mini Project 2	Dr Shivputra	Seminar Hall C-302 Offline Mode
20-03-2021	10.30-1130.AM	Session 46	Research Problems related to ML	Harsha.R	Seminar Hall C-302 Offline Mode
	1130-12.30 PM	Session 47	Research Problems related to ML	Dr Shivputra	Seminar Hall C-302 Offline Mode
	12.30-1.30 PM	Session 48	Research Problems related to ML	Dr Shivputra	Seminar Hall C-302 Offline Mode
	2.00-3.00 PM	Session 49	Auto Encoders	Harsha.R	Seminar Hall C-302 Offline Mode
	3.00-4.00PM	Session 50	Valedictory	Dr Shivputra,Harsha.R	Seminar Hall C-302 Offline Mode

Biography



Dr. Shivaputra, Obtained his B.E. in Electronics & Communication Engineering from University of Visvesvaraya College of Engineering, Bangalore, and Bangalore University in 2002, and M.Tech. Degree in VLSI Design & Embedded System from the BMS College Engineering, Visvesvaraya Technological University in 2009 and PhD from Jain University, Bangalore during 2017. He is a reviewer of The Journal of Supercomputing, springer and several Journal of international repute. He has published more than 28 research papers in the journals of international repute and 4 Patents filed. Under his Guidance 8 M.Tech. Degrees are awarded, Guiding 3 Ph.D. under VTU Belagavi and working as editorial member of international and National Journals. Currently he is working as Assistant Professor in the Dept. of ECE, Dr. Ambedkar Institute of Technology, Bangalore.

HARSHA R

Bangalore , 560109 | 9620640486 | harsh4no1@gmail.com

Summary

To continuously grow academically and personally, contributing to the objectives of the organization by working in a cohesive work environment, and uphold the dignity of the position through acquired knowledge, sincerity and hard work. To pursue a Challenging career in a Progressive Environment where Learning, Innovation and Creativity are encouraged, where my Skill set can be enhanced to their maximum potential to contribute to the overall Success and Growth of the organization.

Work Experience

Assistant Professor Electronics and Communication Jan 2017 to Current
Dr. Ambedkar Institute of Technology — Bengaluru, India

- Delivering lectures, seminars and tutorials and increasing class productivity.
- Worked closely with professors to define objectives, guide research and manage deadlines for curriculum.
- Coordinated with colleagues in continuous reviews and curriculum development, ensuring students received high-quality courses.
- Assisted students with exam preparation by offering one-on-one instruction, increasing pass rate by 70%.
- Assisted in planning and development of teaching materials, workbooks and class projects.
- Attended conferences to learn about new research and present findings.
- Supervised student projects, facilitating progress and encouraging deeper learning through application.
- Published scholarly papers in international journals disseminating knowledge
- Used excellent problem-solving and issue-resolution strategies to rectify difficulties quickly and effectively.
- Managing 800 plus students on a daily basis, answering and maintaining students needs and queries.
- Chief coordinator for various annual program which includes editor for national techno exhibition, managing the faculty workforce with Head of the Department during annual college fest and other events.

SUBJECT RESOLUTION EXPERT Feb 2011 to Aug 2011
Dell INTERNATIONAL PVT LTD — BENGALURU, INDIA

- Built and maintained courteous and effective working relationships with colleagues.
- Developed team communications and information for meetings.
- Identified issues, analyzed information and provided solutions to problems.
- Assisted customers with important purchasing choices, identifying needs and employing product expertise to make appropriate suggestions.
- Established warm and friendly rapport while interacting with customers by phone, email and on live chat.
- Supported customers, resolving technical difficulties by quickly identifying issues, qualifying customer expectations and conducting troubleshooting to achieve timely first-time resolution.
- Employed knowledge of latest company updates to escalate or respond to incoming customer queries in line with best query-resolution practices.

Associate Software Engineer Oct 2007 to Jul 2009
ADITYA BIRLA MINACS — BENGALURU, INDIA

- Developed and laid out software specifications based on key needs of the clients.
- Used excellent communication and interpersonal skills to collaborate effectively with multi-disciplined engineering teams.
- Defined and communicated complex software requirements with diverse stakeholders.
- Produced and stored relevant technical documentation quickly and accurately for well-maintained, reliable records.
- Communicated complex technical information to customers and sales representatives with clarity and ease for optimized understanding.
- Created automated reports for sales and customer data.

Sales and Marketing Executive

Feb 2005 to Jan 2007

IMRB – BENGALURU, INDIA

- Created performance reports on sales, customers, purchases awareness and other growth metrics to identify targets and set new goals for extended growth.
- Conducted research on rival products to obtain information on price, specifications, sales numbers and market activity surrounding the products.
- Conducted thorough analysis on target markets by sending surveys, assessing CRMs, holding focus groups and managing interviews.
- Conducted thorough market and competitor research to obtain a better understanding of trends and identify growth opportunities.

Skills

- Electronics adjusting
- VLSI circuit designing
- Programming
- Business process design
- Strategic goal planning
- Internal database maintenance

Education

Doctor of Philosophy, A.I and M.L 2019

REVA UNIVERSITY – Bengaluru, KA

- Coursework in **A.I and M.L**
- **PERSUING DOCTORATE OF PHILOSOPHY**

M.E, Master Of Engineering, VLSI & EMBEDDED SYSTEM 2016

Dr.Ambedkar Institute of Technology – Bengaluru, KA

B.E, Bachelor Of Engineering, ELECTRONICS AND COMMUNICATION Engineering 2010

J.S.S College. – Bangalore Karnataka, India

Professional Affiliations

- **YOUNG SCIENTIST AWARD** awarded by International Journal for Innovative Engineering and Management Research-Elsevier SSRN research awards 2020
- **IEEE Member, Professional Association**

Patents

1. Patent granted on "DWT Based Feature Extraction for Iris Recognition" from Australia on 25-11-2020 , patent number 2020102066.

2. Patent granted on "UBIQUITOUS ATTENDANCE MONITORING WITH FACE RECOGNITION USING ARTIFICIAL INTELLIGENCE" from Australia on 2021-08-16, patent number 2021103156
3. Patent filled on "DEEP LEARNING TECHNIQUE IN STEGANOGRAPHY WITH MULTIMEDIA NETWORK SECURITY FOR HEALTH CARE" from Australia on 2021-05-19, patent number 2021102689
4. Patent filled on "Design of Luminous Light for Vehicle Monitoring System using IoT" from India on 21-07-2020, patent number 202041031102 A
5. Patent granted on "An artificial intelligence and IOT based system for monitoring and detection of electricity theft" from Australia on 29-07- 2020, patent number 2020101562

Certifications

- One week Certification course on "Remote sensing for space and atmosphere " from QIP I.I.T INDORE.
- Ten days certification course on "Deep learning and its applications" from Electronics &ICT academy I.I.T Roorkee.
- One day certification course on " Whats new at IEEE library" from IEEE.
- Five days certification course on " Control system analysis and design with MATLAB" from National Institute Of Technical Teachers Training And Research Kolkatta, Govt of India
- Four days certification course on " Image authentication WSN and IOT " from JIS college of engineering

International Journal Publications

1. "DWT BASED FEATURE EXTRACTION FOR IRIS RECOGNITION" International Journal of Advanced Research in Computer and Communication, 2015
2. Covid-19 lockdown: challenges to higher education" Cape Comorin, 2020
3. Hydroponics System based on IOT" Annals of the Romanian Society for Cell Biology, 2021/4/24
4. Multipurpose Defence Robots" International Research Journal of Engineering and Technology (IRJET), 2020
5. ANALYSIS OF CONVOLUTIONAL NEURAL NETWORKS FOR RUST CONTROL IN BUILDING AND OTHER APPEARANCES" WAFFEN-UND KOSTUMKUNDE JOURNAL, April/2020.
6. CAN based Accident Alert & Driver Safety System" IJSRD - International Journal for Scientific Research & Development, 03/2018.
7. POWER LINE COMMUNICATION of SENSOR DATA in MINES" IJSRD - International Journal for Scientific Research & Development, 03/2018.

Administrative and other responsibilities

1. TEQIP coordinator Dept of Electronics &Communication Engineering.
2. Managing and coordinating with faculties in national accreditation programs.
3. Worked as paper setter/examiner/member of squad.(internal &external).
4. Board of studies(BOS),Dept of ECE,Dr.A.I.T Bangalore(Autonomous)
5. Managing and coordinating with all the students in the program.

6. Assisted in all the academic activities of the department and institution

Additional academic activities

1. Coordinator for 6TH National techno exhibition conducted by Dr Ambedkar Institute of Technology,2022
2. Editor for 6TH National techno exhibition proceedings compendium conducted by Dr Ambedkar Institute of Technology,2022
3. Editor for technology developments in engineering and management published by tech press New Delhi.
4. Keynote speaker for national conference on recent innovation in science and engineering held on 20th November 2021 at SaIT Bangalore .

Personal Details

Date Of Birth	:	12-5-1986
Sex	:	Male
Marital Status	:	Single
Nationality	:	INDIAN
Languages Known	:	Kannada, English , Hindi ,Telugu
Permanent Address	:	#630 Banshankari 6 th stage 4 th block Bangalore Karnataka, India



Dr. Ambedkar Institute of Technology

(An Autonomous Institution, Aided by Government of Karnataka
Affiliated to Visvesvaraya Technological University, Belgaum & Approved by AICTE, New Delhi)
BDA Outer Ring Road, Near Jnana Bharathi Campus, Mallathally, Bengaluru-560056, Karnataka

Future Skill Training under TEQIP-III

On

“Virtual Reality”

Chief Convener

Dr. G Rajendra

Principal, Dr. AIT, Bangalore

Convener

Dr. Mahalinga V Mandi

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

Date: 10/03/202

Timings: 10.30 AM – 12.30AM

Google Meet Link: <https://meet.google.com/frs-udkx-skw>

Course facilitator and coordinator

Kavitha Devi CS

Assistant Professor,
Dept. of ECE, Dr. AIT



AMBEDKAR INSTITUTE OF TECHNOLOGY

BDA Outer Ring Road, Mallathalli, Bengaluru-56

Dept. of Electronics and Communication Engineering

Future Skill Training under TEQIP-III on “Virtual Reality”

Day	Hours	Class	Sessions	Topics Covered
10-03-2021	3	1	Theory	Fundamentals of Virtual Reality: What is Virtual Reality?
		2	Theory	Virtual Reality as an Immersive Technology, Reality-Virtuality Continuum
		3	Theory	Working Principle, Uses and Benefits
11-03-2021	3	4	Theory	History of Virtual Reality, Application Domains
		5	Theory	Virtual Reality Hardware and Software: Introduction
		6	Theory	Field of View, Degrees of Freedom
12-03-2021	3	7	Theory	Stereoscopy, Hardware
		8	Theory	Input Devices, Output Devices
		9	Theory	Virtual Reality Displays, Tracking - Magnetic
13-03-2021	3	10	Theory	Electromagnetic, Ultrasonic and Inertia
		11	Theory	Optical, Software
		12	Theory	Software: Platforms – Development and Deployment,
14-03-2021	3	13	Theory	VR Scripting, VRML
		14	Theory	X3D, WebVR
		15	Theory	Creating a Virtual Reality Experience – Design
15-03-2021	4	16	Theory	Illusions of Presence, Perceptual Modalities
		17	Theory	Sight, Hearing, Touch
		18	Hands-on	Hands on Tutorial: Unity Installation, Navigating the Documentation
		19	Hands-on	Getting Started with Unity-Starting a new Project, Navigating the Unity Interface
16-03-2021	4	20	Theory	Proprioception, Balance and Physical Motion
		21	Theory	Smell and Taste, Multimodal Perceptions,
		22	Hands-on	Understanding the default workspace, Creating a simple environment with basic 3D
		23	Hands-on	Build and Run, Scripting, Defining Object Behavior, Applying Constraints
17-03-2021	4	24	Theory	Perception of Space and Time, Perceptual Stability
		25	Theory	Attention, and Action, Project: Creating a Simple Game in Unity
		26	Hands-on	, Adding Audio, Gaze Based Interaction Introduction to Blender

		27	Hands-on	Creating a Model - Unit Cube, UV Texture Image
18-03-2021	4	28	Theory	Health Effect: Motion Sickness, Eye Strain, Seizures
		29	Theory	After-effects, Factors Affecting Health, Design Guidelines: Hardware
		30	Hands-on	Exporting the Model, Importing into Unity
		31	Hands-on	Create a simple single player 'Space-War' game
19-03-2021	4	32	Theory	System Calibration, Latency Reduction, General Design, Motion Design,
		33	Theory	Interaction Design, Usage, Measuring Sickness
		34	Hands-on	The player stands with a weapon in his hand and faces attack from enemy in different directions
		35	Hands-on	The player can nullify the attack by firing (use gaze based interaction)
20-03-2021	4	36	Theory	Creating a Virtual Reality Experience – Implementation
		37	Theory	Rendering: Virtual Environments, Object Modeling
		38	Hands-on	When an approaching attack can't be nullified by firing
		39	Hands-on	the player can save himself by moving away (use head movements) from the attack
21-03-2021	4	40	Theory	Geometric Transformation, Perspective Views, 3D Clipping
		41	Theory	Stereoscopic Vision, Rendering, Texture Mapping
		42	Hands-on	. If any attack hits the player
		43	Hands-on	, he loses life and occasionally if he can grab an approaching 'super-comet'
22-03-2021	4	44	Theory	360 degree Images and Videos, Navigation: Navigation in VR Environment
		45	Theory	Navigation Characteristics, Locomotion Techniques – Physical and Virtual
		46	Hands-on	he gains life
		47	Hands-on	The game ends when the player exhausts his life
23-03-2021	4	48	Theory	Wayfinding – Landmark, Signs and Maps Interaction: Interacting with VR Objects
		49	Theory	Direct and Indirect Interactions, Modes of Interactions
		50	Hands-on	Scoring is based on nullifying attacks.
		51	Hands-on	Scoring is based on nullifying attacks.
24-03-2021	4	52	Theory	Multi-modal Interaction, Selection, Manipulation, Collaborative VR
		53	Theory	Putting Everything Together – Case Study, Billiards Board, Unity Game Engine
		54	Hands-on	Creating a Simple Game in Unity by students
		55	Hands-on	Creating a Simple Game in Unity by students

Timestamp	Name	Email ID	Branch	Gender	Date of Birth	Would you
2021/02/02 12:12:35 PM	Chinmayee B H	bhchinmayee1@gmail.com	Ece	Female	28-02-1999	YES
2021/02/02 12:13:16 PM	PRASHANTHRAJ C S	prashanth21699@gmail.com	Electronics	Male	21-06-1999	YES
2021/02/02 12:13:23 PM	Vinutha M	vinutha.shivu605@gmail.com	Electronics	Female	03-09-1999	YES
2021/02/02 12:14:05 PM	Kishore us	kishoreus1999@gmail.com	ECE	Male	02-10-1999	YES
2021/02/02 12:14:57 PM	Ullas K	ullas.kram98@gmail.com	ECE	Male	03-09-1998	YES
2021/02/02 12:15:46 PM	Ashwini H	ashwinih5557@gmail.com	ECE	Female	26-11-1999	YES
2021/02/02 12:18:59 PM	M Madhurya	madhuryam2000@gmail.com	ECE	Female	19-02-2000	YES
2021/02/02 12:21:14 PM	Abhishek p patil	iamabhipatil143@gmail.com	ECE	Male	12-07-1999	YES
2021/02/02 12:24:18 PM	Jayaprakash	jayaprakashjoshi95877@gmail.com	Electronics	Male	10-09-1999	YES
2021/02/02 12:24:52 PM	Vidit Singh Brahmania	viditsinghbrahmania@gmail.com	CSE	Male	17-10-1999	YES
2021/02/02 12:25:15 PM	JAGANNATH	jagannathpanchal.9731@gmail.com	Electronics	Male	16-10-1996	YES
2021/02/02 12:25:20 PM	SYED WASEEM	mrwaseem509@gmail.com	Computer	Male	13-09-1996	YES
2021/02/02 12:25:58 PM	Pooja H S	poojajs15@gmail.com	Electronics	Female	26-05-1999	YES
2021/02/02 12:32:16 PM	D.R.Riyaa	drriyaa.12@gmail.com	ECE	Female	20-12-1998	YES
2021/02/02 12:32:25 PM	Yashodha	yashumb4355@gmail.com	Electronics	Female	21-01-1998	YES
2021/02/02 12:34:11 PM	Pinaki Nanda	pinakin97@gmail.com	CSE	Male	01-01-1997	YES
2021/02/02 12:35:33 PM	ADITHYA S K	ADITHYASK123@GMAIL.COM	Electronics	Male	20-12-1999	YES
2021/02/02 12:38:37 PM	Suma M N	suma@dr-ait.org	CSE	Female	31-05-2000	YES
2021/02/02 12:39:35 PM	Yashas PS	Yashasyash44@gmail.com	Computer	Male	08-12-1999	YES
2021/02/02 12:39:44 PM	Hemalatha n j	hemajagdeesh9@gmail.com	CSE	Female	04-08-1997	YES
2021/02/02 12:40:44 PM	Paavani Komarla	paavanikomarla@dr-ait.org	Computer	Female	11-09-1999	YES
2021/02/02 12:41:28 PM	NISHCHITH M	nischithvidya13@gmail.com	Computer	Male	13-10-1999	YES
2021/02/02 12:42:42 PM	Poornima.G	poornimagraj1999@gmail.com	Electronics	Female	29-12-1999	YES
2021/02/02 12:43:18 PM	Srinidhi K S	srinidhiks15111999@gmail.com	Electronics	Male	15-11-1999	YES
2021/02/02 12:43:48 PM	Kalpana t m	kalpanahitha@gmail.com	Ece	Female	08-12-1999	YES
2021/02/02 12:52:36 PM	Keerthana K S	keerthanaks4999@gmail.com	Electronics	Female	04-09-1999	YES
2021/02/02 12:55:17 PM	Vidhee L Gujarati	vidhee6@gmail.com	ECE	Female	06-08-1999	YES
2021/02/02 1:03:24 PM	(SHASHANK B	shashank09111999@gmail.com	Electronics	Male	09-11-1999	YES
2021/02/02 1:06:17 PM	(Prajwal n	since61999@gmail.com	CSE	Male	30-06-1999	YES
2021/02/02 1:09:10 PM	(Shanmukha Timmapp	Sandeepnaik043@gmail.com	Computer	Male	28-01-1997	YES
2021/02/02 1:09:26 PM	(Prarthana B M	bmprarthana@gmail.com	ECE	Female	12-02-1999	YES
2021/02/02 1:13:33 PM	(Sowndarya B A	sownduashok@gmail.com	Electronics	Female	21-02-2000	YES
2021/02/02 1:13:56 PM	(Supritha S	supritha5523@gmail.com	ECE	Female	23-10-2000	YES
2021/02/02 1:16:38 PM	(Supriya K	supriyak4215@gmail.com	Electronics	Female	31-07-1999	YES
2021/02/02 1:16:51 PM	(Niveditha V	inivedithav@gmail.com	Computer	Female	26-09-1998	YES
2021/02/02 1:18:00 PM	(Sinchana P	sinchanapgowda444@gmail.com	CSE	Female	04-01-2000	YES
2021/02/02 1:21:06 PM	(Nandini N	nandiningowda8@gmail.com	Electronics	Female	08-12-1999	YES
2021/02/02 1:25:34 PM	(Roopesh Kumar C K	rk@dr-ait.org	Computer	Male	17-11-1998	YES
2021/02/02 1:28:50 PM	(Ranjan Raj	ranjanraj737@g	CSE	Male	28-10-1998	YES
2021/02/02 1:29:40 PM	(Aakriti Sah	aakreteeshah157@gmail.com	CSE	Female	15-07-2000	YES
2021/02/02 1:31:00 PM	(SHARATH B S	sharath.bs435@gmail.com	Computer	Male	28-07-1999	YES
2021/02/02 1:32:00 PM	(Mahima Shaini	mahimashaini@gmail.com	Electronics	Female	01-11-1999	YES
2021/02/02 1:32:49 PM	(Sunitha A G	agsunitha17@gmail.com	ECE	Female	09-01-1999	YES
2021/02/02 1:33:47 PM	(Shivakumar s k	skshivakumar99@gmail.com	Computer	Male	14-02-1999	YES
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2021/02/02 2:20:01 PM	(Sambit Sanyal	sambit.sanyal99@gmail.com	Computer	Male	02-01-1999	YES
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2021/02/02 2:48:33 PM	(Vishakha Bhat	vishubhat013@gmail.com	ECE	Female	28-08-1999	YES



Kavitha Devi CS received B.E degree in Electronics and Communication Engineering from Visvesvaraya Technological University, Belgaum. Karnataka, India in 2002. In 2009, received M.Tech in Computer Science Engineering Visvesvaraya Technological University, Belgaum.Karnataka, India. Pursuing PhD in “Design and Implementation of Compact Microstrip Filters” in Visvesvaraya Technological University, Belagavi, India. Presently serving as Assistant Professor at Dr. Ambedkar Institute of Technology, Bangalore, India. Research interest includes Wireless Communication, Microwave and Engineering, Microwave devices, Antennas and wave propagation, Electromagnetic Waves, Wireless Sensor Network, Virtual Reality, Deep Learning, Data Science and Computer Vision with 30 paper publications, 1 international patent, vidwan score of 7.4, 2 silver medals in NPTEL courses, 16 Google scholar citations and RG Score 3.9 (Research Gate), revived many papers for international journals and conferences, attended around 60 FDPs and workshops under AICTE, TEQIP etc., and organized around 20 events under Department level, TEQIP, IETE etc. Received 4 certificates from Ministry of Human Resource Development and My Government for on line quiz for general knowledge and anchored many programs in department and college level. One Book chapter on RF Front End Circuits for Wireless *Communication Systems*, contemporary research in electronics, computing and mechanical sciences 2020, 32-52, ISBN 978-93-86123-75-6, Mangalam publications, New Delhi. And one book published on *On-Board Design Models and Algorithm for Communication based Train Control and Tracking System*, CRC press, Taylor Francis Group, Boca Raton, London New York. Hobbies rangoli, drawing, painting, yoga and cooking.

About the Organization

Dr. Ambedkar Institute of Technology is managed By Panchjanya 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 instsitude 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,

9986007870



Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

BDA Outer Ring Road, Mallathalli, Bengaluru-56

**TEQIP Assisted
Online Student Training**

Future Skill Technology



NPIU
National Project Implementation Unit

INTERNET OF THINGS (IoT)

22nd July 2020 to 30th September 2020

Instructions to the Candidates

- ❖ *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

- *IoT Introduction and Fundamentals*
- *Signals*
- *Sensors, Actuators*
- *Interfaces*
- *Networking for IoT*
- *Cloud Computing in IoT*
- *Data Analysis for IoT applications*
- *Linear Regression and Clustering*
- *Practical session will be conducted for the IoT prototype designs for various application using open source tools*

Pre-requisites

- *Knowledge of microprocessor or microcontrollers.*
- *Basic Concepts of Communications.*
- *Programming knowledge.*

Registration

All the branches of the students are allowed to register for the course, as it is a interdisciplinary course.

- ❖ *Everyday the course is for 2 hours from Monday to Friday.*
- ❖ *Proctored exam will be conducted during the midway (2nd week of August)and at the end of the course.*
- ❖ *Session will be conducted through online mode and Learning Management System(LMS)*
- ❖ *Assignment and practice quiz will conducted after every session.*
- ❖ *Register at the earliest as the registration is based on first come basis.*

Futuristic skills Training on Internet of Things (IoT)

Course Title: Internet of Things (IoT)
Targeted groups: *B.E Students*

Date: 22-July-2020
Training Period: July-2020 – September-2020

OBJECTIVES:

The objective of the course is to instil the knowledge required for the design and development of the Internet of Things to cater to the industrial expectations.

LEARNING OUTCOMES:

After the completion of this course, the students will be able to:

1. Understand the basic requirement of the IoT.
2. Analyze the different signals, sensors, actuators and interfaces to adopt for the design.
3. Study of the networking model in accordance with IoT.
4. Data analytics if the information acquired using various approaches.
5. Design of an IoT for the industrial application.

CONTENTS:

Module 1: IoT Introduction and Fundamentals (6 hrs)	
1	Deciphering the term IoT Applications where IoT can be deployed Benefits/Challenges of deploying an IoT IoT components: Digital Signal Processing, Data transmission, Choice of channel (wired/wireless), back-end data analysis. Understanding packaging and power constraints for IoT implementation.
Module 2: Signals, Sensors, Actuators, Interfaces (17hrs)	
2	Sensors: types, signal types, shape and strength, Actuator Sensor non-idealities: Sensitivity and offset drift, noise, minimum detectable signal, nonlinearity
3	Read-out circuits: Instrumentation-amplifier, SNR definition, noise-bandwidth-power trade-off
4	Circuit component mismatch and mitigation techniques and Interface (calibration, chopping, auto-zeroing etc.)

5	Power/energy considerations
6	Basic Signal Processing (filtering, quantization, computation, storage)

Module 3: Networking and Cloud Computing in IoT (19 hrs)	
7	Review of Communication Networks, Challenges in Networking of IoT Nodes, range, bandwidth
8	Machine-to-Machine (M2M) and IoT Technology Fundamentals, Medium Access Control (MAC) Protocols for M2M Communications
9	Standards for the IoT
10	Basics of 5G Cellular Networks and 5G IoT Communications, Low-Power Wide Area Networks (LPWAN)
11	Wireless communication for IoT: channel models, power budgets, data rates
12	IoT Security and Privacy, MQTT Protocol, Publisher and Subscriber Model
13	Cloud computing platform (open source) and local setup of such environment
14	Embedded software relevant to microcontroller and IoT platforms (enterprise or consumer), user interfaces
Module 4: Data Analysis for IoT applications (8 hrs)	
15	Statistics relevant to large data
16	Linear regression
17	Basics of clustering, classification

LIST OF PRACTICALS:

Text and Reference Books:

1. David Hanes, Gonzalo Salgueiro, Patrick Grossetete, Robert Barton, Jerome Henry, "IoT Fundamentals: Networking Technologies, Protocols, and Use Cases for the Internet of Things", 1 st Edition, Pearson Education (Cisco Press Indian Reprint). (ISBN: 978-9386873743)
2. Srinivasa K G, "Internet of Things", CENGAGE Learning India, 2017
3. Vijay Madiseti and Arshdeep Bahga, "Internet of Things (A Hands –on Approach)", 1 st Edition, VPT, 2014. (ISBN: 978-8173719547)
4. Raj Kamal, "Internet of Things: Architecture and Design Principles", 1st Edition, McGraw Hill Education, 2017. (ISBN: 978-9352605224)

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Electronics and Communication Engineering Mechanical Engineering	iamabhipatil143@gmail.com	4th Year
Electronics and Communication Engineering Mechanical Engineering	Bhagyashreembacha@gmail.com	4th Year
Electronics and Communication Engineering Mechanical Engineering	aashwinigs4@gmail.com	4th Year
Electronics and Communication Engineering Mechanical Engineering	anu301115@gmail.com	4th Year

Futuristic Skills Training under TEQIP-III Through NPIU

on

Internet of Things (IOT)

SCHEDULE

From 22.07.2020 to 30.09.2020

<i>Date</i>	<i>Time</i>	<i>Sessions</i>	<i>Topic</i>	<i>Trainer</i>	<i>Venue /Teaching Methodology</i>
22-07-2020	10.30 -11.30 AM	-	Inauguration	Principal,TEQ IP Coordinator and HOD	Seminar Hall C-302
	11.30 -12.30 PM	Session 1	Module 1:- IoT Introduction and Fundamentals: - Deciphering the term IoT, Applications where IoT can be deployed	Girija.S	Seminar Hall C-302
23-07-2020	10.30 -11.30 PM	Session 2	Benefits/Challenges of deploying an IoT	Girija.S	Seminar Hall C-302
	11.30 -12.30 PM	Session 3	IoT components	Girija.S	Seminar Hall C-302
24-07-2020	10.30 -11.30 PM	Session 4	Digital Signal Processing,	Girija.S	Seminar Hall C-302
	11.30 -12.30 PM	Session 5	Data transmission, Choice of channel (wired/wireless)	Girija.S	Seminar Hall C-302
27-07-2020	10.30 -11.30 PM	Session 6	Back -end data analysis, Understanding packaging and power constraints for IoT implementation.	Girija.S	Seminar Hall C-302
	11.30 -12.30 PM	Session 7	Module 2:- Signals, Sensors, Actuators, Interfaces :- Sensors: types	B S Sudha	Seminar Hall C-302

28-07-2020	10.30 -11.30 PM	Session 8	Sensors: types	B S Sudha	Seminar Hall C-302
	11.30 -12.30 PM	Session 9	signal types, shape and strength	B S Sudha	Seminar Hall C-302
29-07-2020	10.30 -11.30 PM	Session 10	Actuator applications	B S Sudha	Seminar Hall C-302
	11.30 -12.30 PM	Session 11	Sensor non-idealities: Sensitivity and offset drift ,	B S Sudha	Seminar Hall C-302
30-07-2020	10.30 -11.30 PM	Session 12	Noise, minimum detectable signal, nonlinearity.	B S Sudha	Seminar Hall C-302
	11.30 -12.30 PM	Session 13	Read-out circuits: Introductions, Instrumentation-amplifier.	B S Sudha	Seminar Hall C-302
30-07-2020	10.30 -11.30 PM	Session 14	SNR definition , noise-bandwidth-power trade-off.	B S Sudha	Seminar Hall C-302
	11.30 -12.30 PM	Session 15	Circuit component mismatch and mitigation	B S Sudha	Seminar Hall C-302
31-07-2020	10.30 -11.30 PM	Session 16	Techniques and Interface (calibration, chopping, auto-zeroing etc.)	B S Sudha	Seminar Hall C-302
	11.30 -12.30 PM	Session 17	Techniques and Interface (calibration, chopping, auto-zeroing etc.)	B S Sudha	Seminar Hall C-302
3-08-2020	10.30 -11.30 PM	Session 18	Power/energy considerations	B S Sudha	Seminar Hall C-302
	11.30 -12.30 PM	Session 19	Power/energy considerations	B S Sudha	Seminar Hall C-302
4-08-2020	10.30 -11.30 PM	Session 20	Introduction to,Basic Signal Processing (filtering, quantization, computation, storage)	B S Sudha	Seminar Hall C-302
	11.30 -12.30 PM	Session 21	Introduction to,Basic Signal Processing (filtering, quantization, computation, storage)	B S Sudha	Seminar Hall C-302
5-08-2020	10.30 -11.30 PM	Session 22	Introduction to,Basic Signal Processing (filtering, quantization, computation, storage)	B S Sudha	Seminar Hall C-302

	11.30 -12.30 PM	Session 23	Introduction to,Basic Signal Processing (filtering, quantization, computation, storage)	B S Sudha	Seminar Hall C-302
10-08-2020	10.30 -11.30 PM	Session 24	Module 3:-Networking and Cloud Computing in IoT (19hrs)	Dr Umadevi H	Seminar Hall C-302
	11.30 -12.30 PM	Session 25	Review of Communication Networks Nodes,	Dr Umadevi H	
11-08-2020	10.30 -11.30 PM	Session 26	Review of Communication Networks Nodes,	Dr Umadevi H	Seminar Hall C-302
	11.30 -12.30 PM	Session 27	Challenges in Networking of IoT	Dr Umadevi H	Seminar Hall C-302
12-08-2020	10.30 -11.30 PM	Session 28	Challenges in Networking of IoT	Dr Umadevi H	Seminar Hall C-302
	11.30 -12.30 PM	Session 29	Range, bandwidth requirements for IoT	Dr Umadevi H	Seminar Hall C-302
13-08-2020	10.30 -11.30 PM	Session 30	Range, bandwidth requirements for IoT	Dr Umadevi H	Seminar Hall C-302
	11.30 -12.30 PM	Session 31	Machine-to-Machine (M2M) and IoT Technology Fundamentals,	Dr Umadevi H	Seminar Hall C-302
14-08-2020	10.30 -11.30 PM	Session 32	Machine-to-Machine (M2M) and IoT Technology Fundamentals,	Dr Umadevi H	Seminar Hall C-302
	11.30 -12.30 PM	Session 33	Basics of 5G Cellular Networks,	Dr Umadevi H	Seminar Hall C-302
17-08-2020	10.30 -11.30 PM	Session 34	5G use cases, 5G introduction	Dr Umadevi H	Seminar Hall C-302
	11.30 -12.30 PM	Session 35	key 5G Technologies	Dr Umadevi H	Seminar Hall C-302
18-08-2020	10.30 -11.30 PM	Session 36	5G IoT Communications, Low power wide area network.	Dr Umadevi H	Seminar Hall C-302
	11.30 -12.30 PM	Session 37	5G deployment, 5G projects	Dr Umadevi H	Seminar Hall C-302
19-08-2020	10.30 -11.30 PM	Session 38	Wireless communication for IoT: channel models, power budgets, data rates	Dr Umadevi H	Seminar Hall C-302

	11.30 -12.30 PM	Session 39	IoT Security and Privacy,	Girija S	Seminar Hall C-302
20-08-2020	10.30 -11.30 PM	Session 40	MQTT Protocol, Publisher and Subscriber Model Cloud computing platform	Girija S	Seminar Hall C-302
	11.30 -12.30 PM	Session 41	Embedded software relevant to microcontroller and IoT platforms (enterprise or consumer), user interfaces	Girija S	Seminar Hall C-302
21-08-2020	10.30 -11.30 PM	Session 42	Embedded software relevant to microcontroller and IoT platforms (enterprise or consumer), user interfaces	Girija S	Seminar Hall C-302
	11.30 -12.30 PM	Session 43	Embedded software relevant to microcontroller and IoT platforms (enterprise or consumer), user interfaces	Girija S	Seminar Hall C-302
24-08-2020	10.30 -11.30 PM	Session 44	Module 4:- Introduction to Statistics relevant to large data	Girija S	Seminar Hall C-302
	11.30 -12.30 PM	Session 45	what is Big Data and its characteristics	Girija S	Seminar Hall C-302
25-08-2020	10.30 -11.30 PM	Session 46	Role of Analytics in IOT	Girija S	Seminar Hall C-302
	11.30 -12.30 PM	Session 47	Introduction to Linear regression and its analysis	Girija S	Seminar Hall C-302
26-08-2020	10.30 -11.30 PM	Session 48	First order linear model, error variable, scatter plot.	Girija S	Seminar Hall C-302
	11.30 -12.30 PM	Session 49	Basics of clustering, supervised and unsupervised clustering	Girija S	Seminar Hall C-302
27-08-2020	10.30 -11.30 PM 11.30 -12.30 PM	Session 50	Supervised and unsupervised classification, clustering verses classification.	Girija S	Seminar Hall C-302
28-08-2020			Practical Session will be held till 30.09.2020		

List of Trainers

1	Dr Umadevi H Professor , Dept. of ECE, Dr.AIT	Email : umadevi.h@dr-ait.org , Mobile no. : 9880324895	
2	Sudha BS Associate Professor,Dept. of ECE, Dr.AIT	Email : sudha.bs@dr-ait.org , Mobile no. : 9242363088	
3	Girija S Assistant Professor,Dept. of ECE. Dr.AIT Bengluru-56.	Email : girija.s@dr-ait.org , Mobile no. : 9986007870	

Course:- Internet of Things

Student Attendance

Sl. No.	Student Name	USN	22-07-2020	23-07-2020	23-07-2020	24-07-2020
1	Aishwarya Kamakodi	1DA17EC007	1	2	3	4
2	Ajay s s	1DA17EC008	1	2	3	4
3	Anusha c s	1DA17EC012	1	2	3	4
4	Arpitha GR	1da17EC014	1	2	3	4
5	Arun Kumar Belamge	1DA17EC015	1	2	3	4
6	Bharath H U	1DA17EC023	1	2	3	4
7	Darshan V	1DA17EC032	1	2	3	4
8	Deepak T V	1DA17EC034	1	2	3	4
9	E Kishore	1DA17EC039	1	2	3	4
10	Gajan Gowda A B	1DA17EC040	1	2	3	4
11	Geetha Gowda	1DA17EC043	1	2	3	4
12	Harshitha L S	1DA17EC046	1	2	3	4
13	Harshitha M S	1DA17EC047	1	2	3	4
14	J. POOJA	1DA17EC048	1	2	3	4
15	Jayanth Kumar K	1DA17EC050	1	2	3	4
16	Keerthana R	1DA17EC057	1	2	3	4
17	Mamatha N	1DA17EC075	1	2	3	4
18	Naveen Kumar GN	1DA17EC083	1	2	3	4
19	Niveditha G V	1DA17EC088	1	2	3	4
20	Nonitha C	1DA17EC090	1	2	3	4
21	Prarthana B M	1DA17EC096	1	2	3	4
22	Prasad shekhar naik	1DA17EC097	1	2	3	4
23	Prashant Kumar	1DA17EC098	1	2	3	4
24	Rachana M	1DA17EC107	1	2	3	4
25	Rachitha C	1DA17EC108	1	2	3	4
26	Rajesh Rao R E	1DA17EC111	1	2	3	4
27	Rohith T N	1DA17EC116	1	2	3	4
28	Sanjay N J	1DA17EC123	1	2	3	4
29	Ruchitha Reddy V R	1DA17EC118	1	2	3	4
30	S Vaishnavi	1DA17EC119	1	2	3	4
31	SHAIK HUSSAIN	1DA17EC124	1	2	3	4
32	Shreyas H K	1DA17EC131	1	2	3	4
33	Shreyas S	1DA17EC132	1	2	3	4
34	Shwetha G	1DA17EC133	1	2	3	4
35	Sunitha A G	1DA17EC139	1	2	3	4
36	Syedda Arshiya Taj	1DA17EC141	1	2	3	4
37	Varun Kumar G	1DA17EC147	1	2	3	4

38	Abhishek p patil	1DA18EC403	1	2	3	4
39	Sangeetha C	1DA18EC439	1	2	3	4
40	Ajaykumar S	1DA17TE001	1	2	3	4
41	AJAY V	1DA17TE002	1	2	3	4
42	Akshatha S	1DA17TE003	1	2	3	4
43	Akshay P	1DA17TE004	1	2	3	4
44	Anusha.S	1DA17TE005	1	2	3	4
45	Chaitra K N	1DA17TE009	1	2	3	4
46	Chandana L	1DA17TE010	1	2	3	4
47	G M LIKHITH	1DA17TE015	1	2	3	4
48	Harshith V R	1DA17TE017	1	2	3	4
49	HARSHITHA M S	1DA17TE018	1	2	3	4
50	Jagruth S	1DA17TE019	1	2	3	4
51	Jayashree K S	1DA17TE021	1	2	3	4
52	MANASWINI N S	1DA16TE024	1	2	3	4
53	Manjushree R	1DA17TE025	1	2	3	4
54	Monisha M	1DA17TE027	1	2	3	4
55	Murthy M N	1DA17TE029	1	2	3	4
56	Nayana N	1DA17TE031	1	2	3	4
57	NOOR FATHIMA S	1DA17TE032	1	2	3	4
58	Pavithra H K	1DA17TE034	1	2	3	4
59	Pragathi N	1DA17TE039	1	2	3	4
60	Rachana sl	1DA17TE041	1	2	3	4
61	Rakshitha BS	1DA17TE042	1	2	3	4
62	RAMYA N	1DA17TE043	1	2	3	4
63	Swaraj H S	1DA17TE049	1	2	3	4
64	VINAY B R	1DA17TE051	1	2	3	4
65	Ajith kumar R	1DA18TE401	1	2	3	4
66	Pavan Kumar T M	1DA18TE409	1	2	3	4
67	Ramya S	1DA18TE412	1	2	3	4
68	Ankitha Bhat	1DA17CS019	1	2	3	4
69	Anusha M	1DA14CS019	1	2	3	4
70	Bharath B M	1DA17EC024	1	2	3	4
71	Bhoomika B Shastry	1DA17CS027	1	2	3	4
72	K Aditya	1DA17CS060	1	2	3	4
73	Keerthan HS	1DA17CS063	1	2	3	4
74	KIRTHI K	1DA17CS064	1	2	3	4
75	Kruthi Katte	1DA17CS065	1	2	3	4
76	Lavanya S	1DA17CS070	1	2	3	4
77	REKHA S KUMAR	1DA16CS111	1	2	3	4
78	Sahana S	1DA17CS145	1	2	3	4
79	Sathwik VU	1DA17CS151	1	2	3	4
80	Shreya S	1DA17CS158	1	2	3	4
81	Santosh Pipalwa	1DA17CS423	1	2	3	4

82	SYED WASEEM	1DA18CS435	1	2	3	4
83	VINODH R	1DA17IS046	1	2	3	4
84	Himaraj	1DA18IS404	1	2	3	4
85	Brundha.P	1DA18IS400	1	2	3	4
86	Jagada u mahesh	1DA17EI021	1	2	3	4
87	Jayashree Y	1DA17EI022	1	2	3	4
88	SAKSHI SHARMA	1DA17EI039	1	2	3	4
89	Neha Kulsum S	1DA17EE028	1	2	3	4
90	Yashaswini S	1DA17EE053	1	2	3	4



Dr. Umadevi. H has completed her BE in Electronics and communication Engineering from Mysore university, ME in Electronics from Bangalore University and Ph.D. in Wireless Communication from Bangalore University. Currently working as a Professor in the Department of Electronics and Communication Engineering at Dr. Ambedkar Institute of Technology, Bengaluru. She has more than 26 years of teaching experience. She has published more than 65 Papers in International and national conferences and has One International patent. She is professional member of IEEE, ISSS, CRSI and ISTE. Her Research area is Wireless Communication. She is guiding 3 PhD research scholars under VTU.

BIOGRAPHY

Name: - B S SUDHA

Designation: Associate Professor

Dept.: Electronics & Communication Engineering

B S SUDHA received B.E degree in Electronics and Communication Engg. During 1991 from Mysore university. Received MTech. in “Industrial Electronics” in the year 2000 from SJCE, Mysore under VTU. Pursuing PhD ON “Broadband Micro Strip Antennas for mobile communication applications” under VTU, Belagavi.

Research field is antennas, microwaves, wireless communication, Digital communication, Information theory and coding. Presently working as Associate Professor in Dr. Ambedkar Institute of Technology, Bangalore, India. Has teaching experience of 30.5yrs.

Has 17 International journal publications, 12 National Conference, Member of the Professional bodies like AICTE, ISSS, CRSI, ISTE. Has attended totally about 60 FDP's, workshops, Short term courses. Organized 4 FDP's / workshop.



Girija has completed her graduation in Electronics and Communication Engineering from Bangalore University and her master's specialization in computer science from Visvesvaraya Technological University, Karnataka. She is currently working as an Assistant Professor in the Department of Electronics and Communication Engineering, at Dr. Ambedkar Institute of Technology. Her areas of interest are Reversible logic, embedded systems, and data computation.

DATE: 23/02/2021

From,

Shwetha M

Assistant Professor

Dept. of ECE, Dr AIT,

Bengaluru

To,

The Principal,

Dr. Ambedkar Institute of Technology,

Bengaluru - 56.

Respected Sir,

Sub: Requisition for remuneration upon completion of handling Future Skill training program for students on “Internet of Things “course- reg

With respect to the above subject, I would like to bring to your kind notice that as per the directions of the NPIU and TEQIP III, Dr AIT, I have handled classes for students related to Future Skill Training Program for “Internet of Things “course from 10th March to 24th March 2021. Total classes and labs handled are 45. I am here by submitting the associated documents for kind consideration and to kindly release the permitted remuneration as per TEQIP-III.

Kindle consider and please do the needful.

With regards,

Your's Sincere
Shwetha M



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

NPIU

National Project Implementation Unit

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.



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

BIOGRAPHY

Name: - Shwetha M

Designation: Assistant Professor

Dept.: Electronics & Communication Engineering

Shwetha M received B.E degree in Telecommunication Engineering During 2008 from Dr.AIT under VTU. Received MTech. in Digital Communication and Networking in the year 2012 from Dr.AIT under VTU. Presently pursuing PhD ON Multimedia Communication under VTU, Belagavi.

Research field is Multimedia Communication, Digital communication, Programming in C and C++, Computer communication Networks and Information theory & coding. Presently working as Assistant Professor in Dr. Ambedkar Institute of Technology, Bangalore, India. Has teaching experience of 10yrs.

Published in 4 International journals, International conference and 2 International Patents. IEEE Professional body member. Attend many workshops and FDP's to improve the knowledge.



Dr. Ambedkar Institute of Technology
Outer Ring Road, Mallathahalli, Bengaluru-560056

NPIU
Naval Paper Inspection Unit

Department of Electronics and Communication Engineering
HOD, Faculty and Students of ECE
Cordially invite you for the Inauguration of

"Finishing School - Parivarthan"
College campus to corporate program
On

6th February 2019
Under TEQIP-III

Chief Guest

Suma Vasanth

Leadership Master Trainer, Coach, Mentor, Founder & CEO of

LeadNIInspire

Presided By

Sri.S.Mariswamy

Hon'ble Chairman, PVP Welfare Trust

Guests of Honour

Sri.A.R.Krishnamurthy

Hon'ble Secretary/Managing Trustee, PVP Welfare Trust

Sri.P.L.Nanjundaswamy

Hon'ble Treasurer, PVP Welfare Trust

Sri. S.Shivamallu

Hon'ble Trustee, PVP Welfare Trust

Dr.M.Mahadeva

Hon'ble Trustee, PVP Welfare Trust

Dr.C.Nanjundaswamy
Principal

Dr. M Meenakshi
Dean(Academics)

Dr.Mahalinga Mandi
Coordiantor, TEQIP-III

Dr.G.V.Jayaramaiah
Professor and HOD, Chief Coordinator

Coordinator(s)

Kavitha Devi C.S
Assistant Professor,ECE

Harsha.R
Assistant Professor,ECE

Time:9.30 a.m

Venue Seminar Hall , Dept of ECE

TEQIP-III SPONSORED
"Three days Workshop on Finishing School -
Parivarthan
"

FEB 18th-20th, 2019

REGISTRATION FORM

Name (in capital): GI. PREETHI

Designation: STUDENT

Department: ECE

Institution: Dr. AIT


Telephone/Mobile: 7796457764

E-Mail: preethipada3a@gmail.com

Category of Registration (please tick)

UG/Faculty

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

Signature of Applicant  Signature of HOD/Principal

ABOUT THE INSTITUTE:
Dr. Ambedkar Institute of Technology (Dr. AIT) is managed by Panchjanya VidyaPeeta 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 14 colleges selected for receiving the World Bank financial Assistance under Technical Education Quality Improvement Program (TEQIP) 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(A Grade) and a recipient of World Bank assistance under Technical Education Quality Improvement Program (TEQIP-I, II and III).

ABOUT THE DEPARTMENT:
The Department came under grant-in-aid scheme of Government of Karnataka in 1992. The UG course was started in the year 1982 with an intake of 60 and presently UG program intake is 180. Staffs are highly qualified and are also the members of prestigious professional bodies like IEEE, ISTE, SSL, and CSI. IEEE Students Chapter has been setup. Students have participated and won prizes in intercollegiate technical activities.

TEQIP -III SPONSORED
Three Days Workshop
On
"Finishing School - Parivarthan

FEB 18th-20th, 2019



NIPU
National Inpirt Imparmentashan I



Chief-Coordinator
Dr. G. V. Jayaramaiah
Professor & HOD

Coordinators
Kavitha Devi C.S
Assistant Professor

Kavyashivashankar
Assistant Professor

Department of Electronics and Communicatio

OBJECTIVES OF WORKSHOP:

The objectives of the Campus to Corporate finishing school program is to bridge the gap between the Campus and the Corporate Culture. The program gives the students a peek at what the Corporates expect when they graduate and join their company.

CHIEF PATRONS:

Sri. S. Mariswamy
Hon'ble Chairman, PVP Welfare Trust

Sri. A. R. Krishnamurthy
Hon'ble Secretary/Mangaling Trustee
PVP Welfare Trust

Sri. P. L. Nanjundaswamy
Treasurer, PVP Welfare Trust

Shri. S. Shivamallu
Trustee, PVP Welfare Trust

Dr. M. Mahadeva
Trustee, PVP Welfare Trust

PATRONS:

Dr. C. Nanjundaswamy
Principal, Dr. AIT

Dr. M. Meenakshi
Dean(A), Dr. AIT

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

RESOURCE PERSONS:

Suma Vasanth, Leadership Master Trainer, Coach, Mentor, Founder & CEO of LeadNInspire, 25+ years of Global Corporate experience with IT giants

R. Srinath, Trainer, Co-founder LeadNInspire, successful entrepreneur

Rajeev B.V. Software profession, soft skills trainer

Organizing committee

Dr. Umadevi H
Professor, Department of ECE
Dr. Ambedkar Institute of Technology

B. S. Sudha
Assistant Professor, Department of ECE
Dr. Ambedkar Institute of Technology

Meenakshi L. Rathod
Assistant Professor, Department of ECE
Dr. Ambedkar Institute of Technology

Tanuja Patgar
Assistant Professor, Department of ECE
Dr. Ambedkar Institute of Technology

Vidyashree C
Assistant Professor, Department of ECE
Dr. Ambedkar Institute of Technology

Date: 18th to 20th April 2018

Venue:

Silver jubilee Hall, Dr. Ambedkar Institute of Technology

Registration Fee:

Students (UG): NIL

Mailing address for all correspondence:

Dr. G.V. Jayaramaiah
Professor,
Department of
Electronics and Communication Engineering
Dr. Ambedkar Institute of Technology
Email: gvjayaram@gmail.com

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

(An Autonomous Institution, Aided by Government of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi), Near JnanaBharathi Campus, Mallathahalli, Bengaluru - 560 056

Department of Electronics and Communication Engineering



NPIU

National Project Implementation Unit

CERTIFICATE

This is to certify that Mr/Ms....., of Semester, Department Of Electronics and Communication Engineering, Dr AIT Bengaluru 560056 has participated in TEQIP- III Sponsored three days' workshop on "*Finishing School- Parivarthan*" which was held from 18 February 2019 Monday to 20 February 2019 Wednesday at Dr Ambedkar Institute of Technology, Bengaluru.

Kavitha Devi C.S

Assistant Professor, Dept. of ECE

Harsha R

Assistant Professor, Dept. of ECE

Kavya shivashankar

Assistant Professor, Dept. of ECE

Dr. G. V. Jayaramaiah
Professor. & Head, Dept. of ECE
Chief coordinator

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

Finishing School - Parivarthan" STUDENT LIST

SL.NO	STUDENT NAME	REGISTER NO	DATE	18/02/2019 DAY 1	19/02/2019 DAY 2	20/02/2019 DAY 3
1	Bhargavi. N. Shetty	IDA16EC024	3A	Bhargavi	Bhargavi	Bhargavi
2	Vishakha Bhat	IDA1REC155	3C	Vishakha	Vishakha	Vishakha
3	Chinnayya. A.	IDA16EC029	3B	Chinnayya	Chinnayya	Chinnayya
4	G. PREETHI	IDA16EC035	CM	Preethi	Preethi	Preethi
5	Anagha. B. Naik	IDA16EC012	CM	Anagha	Anagha	Anagha
6	Kaamini P. Gouda	IDA16EC048	DA	Kaamini	Kaamini	Kaamini
7	Aiith Shabbhaya	IDA16EC010	CM	Aiith	Aiith	Aiith
26	Urmila Haari	IDA16EC133	2B	Haari	Haari	Haari
27	Shriya S	IDA16EC115	CM	Shriya	Shriya	Shriya
28	Shriya S	IDA16EC148	CM	Shriya	Shriya	Shriya
8	Abhinav. Sankar	IDA16EC003	2B	Abhinav	Abhinav	Abhinav
9	Hita Babu. R	IDA16EC009	CM	Hita	Hita	Hita
10	KARTHIK. S	IDA16EC050	CM	Karthik	Karthik	Karthik
11	Gaurav. G. S	IDA16EC036	3B	Gaurav	Gaurav	Gaurav
12	Prasanna. A.	IDA16EC080	3A	Prasanna	Prasanna	Prasanna
13	Vaishnavi. A. D. Patil	IDA16EC134	4M	Vaishnavi	Vaishnavi	Vaishnavi
14	Vaishnavi. R. Vasishtha	IDA16EC135	4M	Vaishnavi	Vaishnavi	Vaishnavi
29	Sharanaya. S	IDA16EC107	ST	Sharanaya	Sharanaya	Sharanaya
15	Devanelli. M. G	IDA16EC103	ST	Devanelli	Devanelli	Devanelli
16	Sidhanth	IDA16EC118	3A	Sidhanth	Sidhanth	Sidhanth
17	Bharath. B. R	IDA16EC141	3A	Bharath	Bharath	Bharath
18	Srinidhi. B	IDA16EC119	3C	Srinidhi	Srinidhi	Srinidhi
19	Tripathi. P. C	IDA16EC130	3A	Tripathi	Tripathi	Tripathi
20	Idhaya. R	IDA16EC189	2A	Idhaya	Idhaya	Idhaya
21	Shruti. C. M	IDA16EC124	2A	Shruti	Shruti	Shruti
22	Thamshree	IDA16EC131	3A	Thamshree	Thamshree	Thamshree
23	Y. Abhi. Shree	IDA16EC140	CM	Y. Abhi	Y. Abhi	Y. Abhi
24	Vanishree. S	IDA16EC136	3A	Vanishree	Vanishree	Vanishree
25	Bhavita. S	IDA16EC123	CM	Bhavita	Bhavita	Bhavita

28-29-1

1

Wavy line

Summy

Finishing School – Parivarthan" STUDENT LIST

34-01
3B-02
29-04
2B-01
0Bc-1
SC-02

SL.NO	STUDENT NAME	REGISTER NO	Rate	18/02/2019 DAY 1	19/02/2019 DAY 2	20/02/2019 DAY 3
01	Sachin .S.F	1DA16EC101	3A	Sachin	Sachin	Sachin
02	Keerthi .S.M	1DA16EC055	3A	Keerthi	Keerthi	Keerthi
03	Mehith .N	1DA16EC068	3A	Mehith	Mehith	Mehith
04	Praveen .B.J	1DA16EC081	3B	Praveen	Praveen	Praveen
05	Shanath .N	1DA16EC108	3A	Shanath	Shanath	Shanath
06	Sandeep .S.A	1DA16EC102	3A	Sandeep	Sandeep	Sandeep
07	Ranjith .R	1DA16EC095	3A	Ranjith	Ranjith	Ranjith
08	Mandeel .U	1DA16EC064	3A	Mandeel	Mandeel	Mandeel
09	Poornima .C.M	1DA16EC078	3A	Poornima	Poornima	Poornima
10	Gautham .O	1DA16EC037	3A	Gautham	Gautham	Gautham
11	Ananya .B.R	1DA16EC018	3B	Ananya	Ananya	Ananya
12	Vikas .D.H	1DA16EC138	3C	Vikas	Vikas	Vikas
13	Anand .P.B	1DA16EC143	3A	Anand	Anand	Anand
14	Srinivasa .V	1DA16EC122	3A	Srinivasa	Srinivasa	Srinivasa
15	Saravani .M.S.	1DA16EC019	3A	Saravani	Saravani	Saravani
16	Arjuna .V	1DA16EC019	3A	Arjuna	Arjuna	Arjuna
17	Chanya .S	1DA16EC115	3M	Chanya	Chanya	Chanya
18	Umesh .K	1DA16EC133	3B	Umesh	Umesh	Umesh
19	Saravanya	1DA16EC107	3M	Saravanya	Saravanya	Saravanya
20	Srujan .T.H	1DA16EC148	3M	Srujan	Srujan	Srujan
21	Srujan .N.J	1DA16EC105	3C	Srujan	Srujan	Srujan
22	Vedant .N.V	1DA19EC123	3A	Vedant	Vedant	Vedant
23	Pranav .N.V	1DA19EC432	3A	Pranav	Pranav	Pranav
24	Sujatha .S.K	1DA16EC404	3B	Sujatha	Sujatha	Sujatha
25	Sujatha .S.K	1DA19EC429	3M	Sujatha	Sujatha	Sujatha

Finishing School - Parivarthan" STUDENT LIST

3A - 01
3B - 01
3C - 01
3D - 01
2B - 01
2C - 01
2D - 01
2E - 01
2F - 01
2G - 01
2H - 01
2I - 01
2J - 01
2K - 01
2L - 01
2M - 01
2N - 01
2O - 01
2P - 01
2Q - 01
2R - 01
2S - 01
2T - 01
2U - 01
2V - 01
2W - 01
2X - 01
2Y - 01
2Z - 01

3C-02
2A-20
2B-07
SC-05
ST-02
OBC-1

SIL NO	STUDENT NAME	REGISTER NO	Coate	18/02/2019 DAY 1	19/02/2019 DAY 2	20/02/2019 DAY 3
1.	Supriya M	1DA16EC186	2A	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
2.	Shubhika S	1DA16EC116	2A	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
3.	Hanah N.M.S	1DA15EC048	3A	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
4.	Uddesh N.Gunagi	1DA16EC132	2A	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
5.	Spoorti S.P	1DA16EC120	3A	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
6.	Smriti Shivakumar	1DA16EC128	2A	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
7.	Vinay Kumar S	1DA17EC434	2A	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
8.	Shavani M.S.	1DA15EC140	2C	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
9.	Aparnika R.S	1DA16EC016	ST	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
10.	Sanyal N.J	1DA19EC123	2M	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
11.	Vedika Patil	1DA17EC155	3A	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
12.	Samavittra B.N.	1DA16EC146	2M	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
13.	Shivani G	1DA16EC111	2M	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
14.	Pratishtha D	1DA16EC034	3B	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
15.	Prathama K.P	1DA16EC145	3C	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
16.	Nithya Vaidya	1DA17EC420	2M	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
17.	Meghana D	1DA17EC419	2M	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
18.	Deeptika L	1DA17EC406	2A	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
19.	Shubhika P	1DA16EC025	2B	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
20.	Vishvanath S.H	1DA17EC117	2A	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
21.	Pranavesh	1DA17EC122	2A	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
22.	Pratishtha	1DA16EC014	2A	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
23.	Pranya B.R.	1DA16EC013	2A	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

GN-114 Female - 52
 Sec-01, ST-01
 Total - 120



Kavitha Devi CS received B.E degree in Electronics and Communication Engineering from Visvesvaraya Technological University, Belgaum. Karnataka, India in 2002. In 2009, received M.Tech in Computer Science Engineering Visvesvaraya Technological University, Belgaum.Karnataka, India. Pursuing PhD in “Design and Implementation of Compact Microstrip Filters” in Visvesvaraya Technological University, Belagavi, India. Presently serving as Assistant Professor at Dr. Ambedkar Institute of Technology, Bangalore, India. Research interest includes Wireless Communication, Microwave and Engineering, Microwave devices, Antennas and wave propagation, Electromagnetic Waves, Wireless Sensor Network, Virtual Reality, Deep Learning, Data Science and Computer Vision with 30 paper publications, 1 international patent, vidwan score of 7.4, 2 silver medals in NPTEL courses, 16 Google scholar citations and RG Score 3.9 (Research Gate), revived many papers for international journals and conferences, attended around 60 FDPs and workshops under AICTE, TEQIP etc., and organized around 20 events under Department level, TEQIP, IETE etc. Received 4 certificates from Ministry of Human Resource Development and My Government for on line quiz for general knowledge and anchored many programs in department and college level. One Book chapter on RF Front End Circuits for Wireless *Communication Systems*, contemporary research in electronics, computing and mechanical sciences 2020, 32-52, ISBN 978-93-86123-75-6, Mangalam publications, New Delhi. And one book published on *On-Board Design Models and Algorithm for Communication based Train Control and Tracking System*, CRC press, Taylor Francis Group, Boca Raton, London New York. Hobbies rangoli, drawing, painting, yoga and cooking.

HARSHA R

Bangalore , 560109 | 9620640486 | harsh4no1@gmail.com

Summary

To continuously grow academically and personally, contributing to the objectives of the organization by working in a cohesive work environment, and uphold the dignity of the position through acquired knowledge, sincerity and hard work. To pursue a Challenging career in a Progressive Environment where Learning, Innovation and Creativity are encouraged, where my Skill set can be enhanced to their maximum potential to contribute to the overall Success and Growth of the organization.

Work Experience

Assistant Professor Electronics and Communication Jan 2017 to Current
Dr. Ambedkar Institute of Technology — Bengaluru, India

- Delivering lectures, seminars and tutorials and increasing class productivity.
- Worked closely with professors to define objectives, guide research and manage deadlines for curriculum.
- Coordinated with colleagues in continuous reviews and curriculum development, ensuring students received high-quality courses.
- Assisted students with exam preparation by offering one-on-one instruction, increasing pass rate by 70%.
- Assisted in planning and development of teaching materials, workbooks and class projects.
- Attended conferences to learn about new research and present findings.
- Supervised student projects, facilitating progress and encouraging deeper learning through application.
- Published scholarly papers in international journals disseminating knowledge
- Used excellent problem-solving and issue-resolution strategies to rectify difficulties quickly and effectively.
- Managing 800 plus students on a daily basis, answering and maintaining students needs and queries.
- Chief coordinator for various annual program which includes editor for national techno exhibition, managing the faculty workforce with Head of the Department during annual college fest and other events.

SUBJECT RESOLUTION EXPERT Feb 2011 to Aug 2011
Dell INTERNATIONAL PVT LTD — BENGALURU, INDIA

- Built and maintained courteous and effective working relationships with colleagues.
- Developed team communications and information for meetings.
- Identified issues, analyzed information and provided solutions to problems.
- Assisted customers with important purchasing choices, identifying needs and employing product expertise to make appropriate suggestions.
- Established warm and friendly rapport while interacting with customers by phone, email and on live chat.
- Supported customers, resolving technical difficulties by quickly identifying issues, qualifying customer expectations and conducting troubleshooting to achieve timely first-time resolution.
- Employed knowledge of latest company updates to escalate or respond to incoming customer queries in line with best query-resolution practices.

Associate Software Engineer Oct 2007 to Jul 2009
ADITYA BIRLA MINACS — BENGALURU, INDIA

- Developed and laid out software specifications based on key needs of the clients.
- Used excellent communication and interpersonal skills to collaborate effectively with multi-disciplined engineering teams.
- Defined and communicated complex software requirements with diverse stakeholders.
- Produced and stored relevant technical documentation quickly and accurately for well-maintained, reliable records.
- Communicated complex technical information to customers and sales representatives with clarity and ease for optimized understanding.
- Created automated reports for sales and customer data.

Sales and Marketing Executive

Feb 2005 to Jan 2007

IMRB – BENGALURU, INDIA

- Created performance reports on sales, customers, purchases awareness and other growth metrics to identify targets and set new goals for extended growth.
- Conducted research on rival products to obtain information on price, specifications, sales numbers and market activity surrounding the products.
- Conducted thorough analysis on target markets by sending surveys, assessing CRMs, holding focus groups and managing interviews.
- Conducted thorough market and competitor research to obtain a better understanding of trends and identify growth opportunities.

Skills

- Electronics adjusting
- VLSI circuit designing
- Programming
- Business process design
- Strategic goal planning
- Internal database maintenance

Education

Doctor of Philosophy, A.I and M.L 2019

REVA UNIVERSITY – Bengaluru, KA

- Coursework in **A.I and M.L**
- **PERSUING DOCTORATE OF PHILOSOPHY**

M.E, Master Of Engineering, VLSI & EMBEDDED SYSTEM 2016

Dr.Ambedkar Institute of Technology – Bengaluru, KA

B.E, Bachelor Of Engineering, ELECTRONICS AND COMMUNICATION Engineering 2010

J.S.S College. – Bangalore Karnataka, India

Professional Affiliations

- **YOUNG SCIENTIST AWARD** awarded by International Journal for Innovative Engineering and Management Research-Elsevier SSRN research awards 2020
- **IEEE Member, Professional Association**

Patents

1. Patent granted on "DWT Based Feature Extraction for Iris Recognition" from Australia on 25-11-2020 , patent number 2020102066.

2. Patent granted on "UBIQUITOUS ATTENDANCE MONITORING WITH FACE RECOGNITION USING ARTIFICIAL INTELLIGENCE" from Australia on 2021-08-16, patent number 2021103156
3. Patent filled on "DEEP LEARNING TECHNIQUE IN STEGANOGRAPHY WITH MULTIMEDIA NETWORK SECURITY FOR HEALTH CARE" from Australia on 2021-05-19, patent number 2021102689
4. Patent filled on "Design of Luminous Light for Vehicle Monitoring System using IoT" from India on 21-07-2020, patent number 202041031102 A
5. Patent granted on "An artificial intelligence and IOT based system for monitoring and detection of electricity theft" from Australia on 29-07- 2020, patent number 2020101562

Certifications

- One week Certification course on "Remote sensing for space and atmosphere " from QIP I.I.T INDORE.
- Ten days certification course on "Deep learning and its applications" from Electronics &ICT academy I.I.T Roorkee.
- One day certification course on " Whats new at IEEE library" from IEEE.
- Five days certification course on " Control system analysis and design with MATLAB" from National Institute Of Technical Teachers Training And Research Kolkatta, Govt of India
- Four days certification course on " Image authentication WSN and IOT " from JIS college of engineering

International Journal Publications

1. "DWT BASED FEATURE EXTRACTION FOR IRIS RECOGNITION" International Journal of Advanced Research in Computer and Communication, 2015
2. Covid-19 lockdown: challenges to higher education" Cape Comorin, 2020
3. Hydroponics System based on IOT" Annals of the Romanian Society for Cell Biology, 2021/4/24
4. Multipurpose Defence Robots" International Research Journal of Engineering and Technology (IRJET), 2020
5. ANALYSIS OF CONVOLUTIONAL NEURAL NETWORKS FOR RUST CONTROL IN BUILDING AND OTHER APPEARANCES" WAFFEN-UND KOSTUMKUNDE JOURNAL, April/2020.
6. CAN based Accident Alert & Driver Safety System" IJSRD - International Journal for Scientific Research & Development, 03/2018.
7. POWER LINE COMMUNICATION of SENSOR DATA in MINES" IJSRD - International Journal for Scientific Research & Development, 03/2018.

Administrative and other responsibilities

1. TEQIP coordinator Dept of Electronics &Communication Engineering.
2. Managing and coordinating with faculties in national accreditation programs.
3. Worked as paper setter/examiner/member of squad.(internal &external).
4. Board of studies(BOS),Dept of ECE,Dr.A.I.T Bangalore(Autonomous)
5. Managing and coordinating with all the students in the program.

6. Assisted in all the academic activities of the department and institution

Additional academic activities

1. Coordinator for 6TH National techno exhibition conducted by Dr Ambedkar Institute of Technology,2022
2. Editor for 6TH National techno exhibition proceedings compendium conducted by Dr Ambedkar Institute of Technology,2022
3. Editor for technology developments in engineering and management published by tech press New Delhi.
4. Keynote speaker for national conference on recent innovation in science and engineering held on 20th November 2021 at SaIT Bangalore .

Personal Details

Date Of Birth	:	12-5-1986
Sex	:	Male
Marital Status	:	Single
Nationality	:	INDIAN
Languages Known	:	Kannada, English , Hindi ,Telugu
Permanent Address	:	#630 Banshankari 6 th stage 4 th block Bangalore Karnataka, India