

## APPLICABLE PERSONS

Applications will be handled by eminent persons from various Educational Institutions.

## HOW TO APPLY?

Applicants should register at AICTE-ATAL web site at the earliest.  
Website: <http://www.aicte-india-org/atal>

## ELIGIBILITY AND SELECTION

Only members and PG students from AICTE approved Engineering Colleges can apply. Selection is on “first come first serve” basis. Selection will be intimated by email and selected participants should confirm their participation.

## REGISTRATION:

Registration Fee  
Maximum No. of Participants: 200 Nos.  
Selected Participants should attend program for the entire duration through online.

Address for Communication :  
The Co-ordinator

**Dr. S.Vijayachitra**

AICTE Training And Learning Academy  
(ATAL) Programme

on

Edge Computing Technologies for Smart  
Factory Automation and Industry 4.0”

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**KONGU ENGINEERING COLLEGE**  
(Autonomous)

**PERUNDURAI- 638060, ERODE, TAMILNADU**

**DEPARTMENT OF ELECTRONICS & INSTRUMENTATION  
ENGINEERING**



**A One Week Online**



**AICTE Training And Learning  
Academy (ATAL) Faculty  
Development Programme (FDP)**

**On**

**“Edge Computing Technologies  
for Smart Factory Automation  
and Industry 4.0”**

**16.08.2021 to 20.08.2021**

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## THE COLLEGE

Kongu Engineering College (KEC) established in 1984, is approved by AICTE, New Delhi, accredited by NAAC for its performance with the grade of "A" and an autonomous institution affiliated to Anna University Chennai, has completed 35 years of dedicated and excellent service in the field of technical education. The college offers B.Tech, 19 PG and 16 research programmes in Engineering and Applied Sciences. It is one of the best financing engineering colleges imparting high quality technical education in Tamil Nadu, India, and is known for its technical excellence, modern facilities, record of performance with excellent results and enterprising students. Ranked 1st Position in Tamil Nadu and 39th position at all India level by "The Week" magazine, 3rd Position in Tamil Nadu and 135th position in private Engineering colleges in India

## THE DEPARTMENT

The Department of Electronics and Instrumentation Engineering is offering a full time four year B.E. course in Electronics and Instrumentation Engineering and M.E course in Control and Instrumentation Engineering. This field of engineering requires technical knowledge in the areas of Electronics Engineering, Biomedical Instrumentation, Embedded Systems, Signal and Image Processing, VLSI, Neural Networks and Fuzzy Logic. The Department has sound infrastructural facilities including separate laboratories like Biomedical Instrumentation, Virtual Instrumentation, DSP, PLC and SCADA. Competent faculty and established library are the highlights of the Department.

by "The Week" Magazine. Ranked 135th position in private Engineering colleges in India by NIRF ranking. It has an active Industry- Institute Partnership (IIP) Cell to interact with industries. Received Sustainable Institute Industry Partnership Award consecutively for two years (2014 & 2015) from the Institution in Society for Educational and Entrepreneurship Development, Chennai. It has got NBA accreditation for most of the UG programmes and is an ISO certified institution. It has also got the Best Engineering College award and the Best Principal Award from ISTE. It has established a Technology Business Incubator (TBI) supported by the Department of Science and Technology, Government of India, and won the National Award presented by the President of India on Technology Day in New Delhi.

Kongu Engineering College has been awarded as the Most Clean Campus for the Year 2017 by AICTE.

## Objective

The term Industry 4.0, or fourth industrial revolution, refers to the introduction of information technologies in factories. It is usually used to refer to the digital transformation within the industry and also refers to the use of cyber-physical systems, the Internet of things (IoT), cloud computing and machine learning. The introduction of Industry 4.0 gives rise to what is called "Smart Factory". With IoT, different systems can communicate with each other, allowing cooperation with other human systems and operators in real-time. Machine learning in Industry 4.0 allows the existing patterns in the data to be extracted. These data sets can be used later to train machine learning algorithms with which it can predict the occurrence of incorrect operation or failures in the different individual components present in industries. The proposed training program will facilitate dissemination of recent advancements on "Machine Learning in Industry 4.0" for product quality improvement and greater flexibility in the production process. The program will cover contemporary progression in application of advanced and SMART Factory for Smart Manufacturing, Autonomous vehicles and machines, together with machine learning, allow continuous evaluation of the quality in each of the production phases.



## FDP SESSION DETAILS

1. Introduction to Automation and Industry 4.0
2. Sensors Technologies: Introduction and advancement to Industry 4.0
3. Cyber security systems, Industrial Networks and Protocols
4. Digitalization and economic development: Smart Foundry applications & Case Study
5. Robot-aided manufacturing processes using digitization approaches and industry 4.0
6. Cloud Computing and Internet of Things in Industries
7. Wireless factory automation: Next-Generation Autonomous Systems
8. Paper Making 4.0: Automation in Paper Machine Finishing House
9. Emerging Trends in Automation with latest DCS/ESD Overview & Wireless
10. Machine Learning and Artificial Intelligence in Industries
11. Role of Instrument Engineer in Design and Automation in Process Industries
12. Challenges in adoption of Smart Manufacturing: Digital Manufacturing techniques
13. Hands on training on advanced Smart Factory Automation: Ethernet, Wireless Communication, IoT, RFID/Sensors and PLCs
14. Stress Management

**KONGU ENGINEERING COLLEGE, PERUNDURAI, ERODE-638060**  
**DEPARTMENT OF EIE**  
**AICTE Sponsored ATAL FDP**  
**on**  
**Edge computing technologies for Smart Factory Automation and Industry 4.0**  
**(16.08.2021 to 20.08.2021)**  
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## ATAL FDP ON “EDGE COMPUTING TECHNOLOGIES FOR SMART FACTORY AUTOMATION AND INDUSTRY 4.0”

Some of the screenshots of Sessions is given.

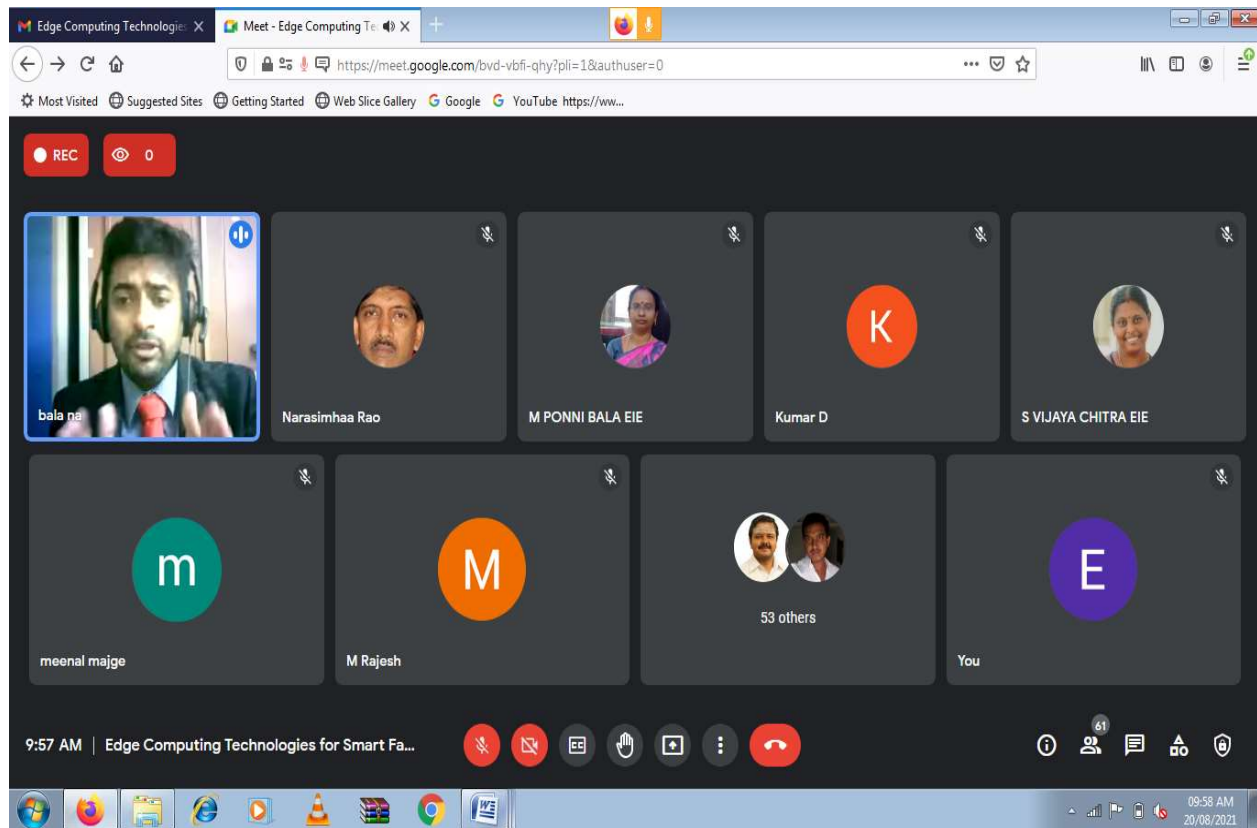
### 19.08.2021 - Session 10 - Dr. I. Thirunavukkarasu

The screenshot shows a Google Meet interface. The main window displays a presentation slide from MANIPAL ACADEMY OF HIGHER EDUCATION. The slide title is "NARX Modeling, Design and Validation of NMPC for the Temperature Trajectory Tracking for a Batch Reactor". The presenter is Dr. I. Thirunavukkarasu, Associate Professor-Senior Scale, Dept. of Instrumentation and Control Engg., Manipal Institute of Technology. The slide also includes the MANIPAL logo and a disclaimer: "Disclaimer: The figures taken from different reference are used for educational purposes only". The right sidebar shows a grid of participants: Thirunavukkarasu In..., Dr Jay Ashwinkumar..., Swathi devaraj, Selva Kumar, Dinesh Mani, Ashishgrover Fet, T.DHARMA RAJ, 51 others, and You. The bottom status bar indicates the time is 9:25 AM and the session is titled "Edge Computing Technologies for Smart Fac...".

### 17.08.2021 - Session 5 - Dr. I.A. Palani

The screenshot shows a Google Meet interface. The main window displays a presentation slide titled "Laser and Smart materials Key elements in cyber physical systems". The slide features three images: a robot head, a hand holding a glowing orange object, and a circuit board. The presenter is Dr. I.A. Palani, Associate Professor, Mechatronics and Instrumentation Lab, Mechanical Engineering discipline, IIT Indore & Dean Research and Development, Indian Institute of technology Indore, Madhya Pradesh, India. The right sidebar shows a grid of participants: Dr. I A Palani, Veera, EIE EIE1-Meet, SUJI PRASAD SJ, Priyadharshini K, Vivek Mankotia, meenal majge, Shahzada Akhter, Sandeep Bhatia, tanuja mote, 34 others, and You. The bottom status bar indicates the time is 11:33 AM and the session is titled "Edge Computing Technologies for Smart Fa...".

## ATAL FDP ON “EDGE COMPUTING TECHNOLOGIES FOR SMART FACTORY AUTOMATION AND INDUSTRY 4.0”



**KONGU ENGINEERING COLLEGE, PERUNDURAI, ERODE-638060**  
**DEPARTMENT OF EIE**  
**AICTE Sponsored ATAL FDP**

**on**  
**Edge computing technologies for Smart Factory Automation and Industry 4.0**  
**(16.08.2021 to 20.08.2021)**  
**Participants List**

S.No.	Name	Institute Name	Mobile	Email ID
1.	MR. ANKURPURI GOSWAMI	SANKALCHAND PATEL COLLEGE OF ENGINEERING	9429088194	ajgoswami.ce@spcevng.ac.in
2.	MR. PATEL CHIRAGKUMAR NAVINBHAI	SANKALCHAND PATEL COLLEGE OF ENGINEERING	9429541242	cnpatel.it@spcevng.ac.in
3.	DR. JAY DAVE	SANKALCHAND PATEL COLLEGE OF ENGINEERING	9909599949	jay.dave4u@gmail.com
4.	MR. DARSHAN KANTILAL PATEL	SANKALCHAND PATEL COLLEGE OF ENGINEERING VISNAGAR	9898558573	dkpatel.ce@spcevng.ac.in
5.	MR. MAHESH R	KARPAGAM COLLEGE OF ENGINEERING	8610919871	aaryem.rm@gmail.com
6.	MR. ASHFAQ MAJEED	CHANDIGARH UNIVERSITY	7006601586	akhtershahzada574@gmail.com
7.	DR. DR.P.GOVINDASAMY	INSTITUTE OF ROAD AND TRANSPORT TECHNOLOGY ERODE	9659236282	govindkalai236@gmail.com
8.	MR. MAYANK KULSHRESHTHA	SWAMI VIVEKANAND UNIVERSITY SAGAR	7741944728	mayank3.kuls@gmail.com
9.	MRS. KALAIVANI.C	J K K NATARAJA COLLEGE OF ENGINEERING AND TECHNOLOGY KUMARAPALAYAM	6382877066	kalaivani.c@jkkn.ac.in

**AICTE TRAINING AND LEARNING ACADEMY  
SPONSORED FIVE DAYS FDP  
ON  
“EDGE COMPUTING TECHNOLOGIES FOR SMART  
FACTORY AUTOMATION AND INDUSTRY 4.0”  
(16.08.2021 TO 20.08.2021)**



**ATAL FDP REPORT**



**KONGU ENGINEERING COLLEGE, PERUNDURAI – 638 060  
(Autonomous)  
Perundurai, Erode – 638060, Tamilnadu, India**



## “EDGE COMPUTING TECHNOLOGIES FOR SMART FACTORY AUTOMATION AND INDUSTRY 4.0”

5-Days AICTE sponsored ONLINE FDP was conducted from 16<sup>th</sup> August to 20<sup>th</sup> August 2021 in which around 132 participants from different parts of the country participated.

The speakers for the 5-day workshop on “EDGE COMPUTING TECHNOLOGIES FOR SMART FACTORY AUTOMATION AND INDUSTRY 4.0” are given with their expertise:

### 16.08.2021 - Session 1 - Dr. N. Arunachalam



#### Dr. N. Arunachalam

Associate Professor  
Room No. MTL1, Central Workshop  
Department of Mechanical Engineering  
IIT Madras  
chalam@iitm.ac.in  
+91 44 2257 4722 (O)

#### Education

Ph.D (2010), Indian Institute of Technology Madras, India.  
M.E (Manufacturing, 1999-2001), MIT Anna University, Chennai, India.  
B.E (1994-98), Mechanical Engineering from College of Engineering, Anna University, Chennai, India.

#### Professional Experience

2019 - Till Date : **Associate Professor**, Department of Mechanical Engineering, IIT Madras, India.  
2013 - 2019 : **Assistant Professor**, Department of Mechanical Engineering, IIT Madras, India.  
2011 - 2013: **Research Engineer**, General Electric, GRC, Bangalore, India.

### 16.08.2021 - Session 2 - Dr. L.Ashok Kumar



#### Dr. L.Ashok Kumar

Professor  
Department of Electrical & Electronics Engineering  
PSG College of Technology,  
Coimbatore - 641 004.

#### Experience

2000 - Present - Professor  
Electrical and Electronics Engineering  
PSG College of Technology  
2011 - 2014 - Associate Professor  
Electrical and Electronics Engineering  
PSG College of Technology  
2010 - 2011 - Assistant Professor  
Electrical and Electronics Engineering  
PSG College of Technology.  
1997 - 2000 - Electrical Engineer  
Serval Paper Board Ltd.,

#### Qualification

2016 Post. Doc. (USA)  
San Diego State University, California, USA  
2013 Lead Auditor  
British Standards Institute  
2011 PhD




	<p>PSG College of Technology, Anna University 2007 MBA IGNOU, New Delhi 2006 ME PSG College of Technology, Coimbatore 1997 BE University of Madras.</p>
--	---

### 16.08.2021 - Session 3 - Mr. R. Mohammed Ghouse


	<p><b>Mr. R. Mohammed Ghouse,</b> CEO - Kalchi Controls, Tiruchirappalli.</p> <ul style="list-style-type: none"> <li>□ Engineer from Mookambigai College of Engineering with post graduation in Business Administration from Annamalai University.</li> <li>□ Having 26 years of experience in Industrial Automation</li> <li>□ Started career with Pepsi and later joined Micromax Systems as a Marketing Engineer and raised to the rank of General Manager heading operations of the company.</li> <li>□ Have visited Middle East, Germany, UK and other countries for official discussions</li> <li>□ Have started KALCHI CONTROLS an electrical and Automation company in the year 2019.</li> <li>□ Ventured into Electrical Retailing, Distribution of Electrical Products, Home Automation and Industrial Automation.</li> <li>□ Committee member of ECE department in Periyar Polytechnic, Vallam.</li> <li>□ Committee member of ECE department in Periyar University, Thanjavur.</li> <li>□ Graduated as Zone Trainer by JCI India.</li> <li>□ Zone Director – JIB (Jaycees in Business), Zone 23, JCI India and have started 4 Business Tables with more than 150 entrepreneurs</li> <li>□ Member of Lions Fortune, Trichy</li> </ul>
---	--

### 17.08.2021 - Session 4 - Ms.Y.Uma Maheshwari


	<p><b>Ms.Y.Uma Maheshwari</b> Manager Technology Pramura Software (P) Ltd., Coimbatore.</p> <p><b>Education:</b></p> <ul style="list-style-type: none"> <li>• <b>Pursuing part time PhD</b> in the area of EMI filter design.</li> <li>• <b>M.E</b> in Embedded systems and Technologies in Anna University, Coimbatore.</li> <li>• <b>B.E</b> in Electrical &amp; Electronics Engineering in Amrita Institute of Technology, Coimbatore.</li> </ul> <p><b>Areas of Expertise:</b></p> <ul style="list-style-type: none"> <li>• High speed PCB design</li> <li>• Post processing of PCB design</li> <li>• Package system design</li> <li>• EMI and SI analysis</li> <li>• Power Electronics</li> <li>• Cross functional analysis</li> </ul>
---	---

*Yuh*


### 17.08.2021 - Session 5 - Dr. I.A. Palani

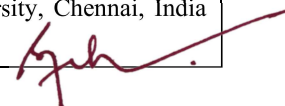
	<p><b>Dr. I.A. Palani</b> Associate Professor Department of Mechanical Engineering IIT Indore.</p> <p><b>Education qualification</b></p> <ul style="list-style-type: none"><li>• Ph.D from Precision Engineering lab, Department of Mechanical Engineering, IIT Madras ( 2006-2010)</li><li>• M.E. in Manufacturing Engg. from A.C. Govt. College of Engineering and Technology Karaikudi, Anna University (2004-2006) (Passed in Distinction )</li><li>• B.E in Production Engineering from Sathyabama Engineering college, University of Madras(2000-2004) (Passed in Distinction and University Rank holder)</li></ul> <p><b>Research Expertise</b></p> <ul style="list-style-type: none"><li>• Smart Materials and Structures</li><li>• Shape memory alloy</li><li>• Laser assisted Surface processing and micro-manufacturing</li><li>• Energy Harvesting</li><li>• Mechatronics system design</li><li>• optical Instrumentation</li></ul>
---	---

### 17.08.2021 - Session 6 - Mr.S.Senthil

	<p><b>Mr.S.Senthil</b> Manager- Instrument, Tamilnadu Newsprint &amp; Papers Limited, Karur.</p> <p><b>PROFESSIONAL PROFILE:</b></p> <p>16 Years Experience in instrumentations field.</p> <p>□□Presently working in M/s <i>Tamilnadu Newsprint and Paper limited (A Govt of Tamilnadu Enterprises)</i> as <b>Manager</b> – Instrumentation Projects since May 2014.</p> <p>□□Previously Worked in M/s <i>Yokogawa India Ltd</i> as <b>Assistant Manager</b> – CSD since august 2006 to April 2014 in south region (Chennai).</p> <p>□□Previously Worked in M/s <i>Seshasayee Paper &amp; BoardsLtd (ISO 9001 &amp;14001 Company)</i>; Erode as <b>assistant officer</b> from June 2004 to July 2006.</p> <p><b>ACADEMIC PROFILE:</b></p> <p>Bachelor of Electronics &amp; Instrumentation Engineering/ Kongu Engineering College, Perundurai, / Bharathiar University, Coimbatore,First Class with Distinction</p>
---	---


### 18.08.2021 - Session 7 -Mr. Puviarasan Maduraipandiyan

	<p><b>Mr. Puviarasan Maduraipandiyan</b> Founder and CEO Dynatral Tech. Coimbatore.</p> <p><b>Academics</b></p> <p>2008-11 : Diploma in Mechatronics Engg, Govt. Polytechnic Chennai, India.</p> <p>2011-14 : Bachelors of Mechatronics Engg, Kongu Engg College, Erode, India</p> <p>2014-16 : M.S (Systems, Control and Mechatronics), Chalmers University of technology, Gothenburg, Sweden 2015-17 : M.S (Cybernetics and Mechatronics), University of Stuttgart, Germany 2018-20 : Master of corporate law, Dr. Ambedkar University, Chennai, India (Distance).</p>
---	--




	<p>Puviyarasan Maduraipandiyar is the Founder and CEO of Dynättrai Tech, which he started from his native village during January 2017.</p> <p>Puviyarasan is the Industrial Consultant for Layout, Operations &amp; Process Optimization, Inventory &amp; Store Management. He is the Solution Architect, Designer and product representative for the entire Dynättrai solutions with the support of his team. In addition to running the company and setting overall product strategy, he remains actively involved in providing real time solutions in many departments of various other companies that he acts as a consultant.</p>
--	--

### 18.08.2021 - Session 8 - Dr.M.Ponni Bala

	<p><b>Dr.M.Ponni Bala</b> Associate Professor Department of EIE Kongu Engineering College, Perundurai-638060. Educational Qualification:</p> <ul style="list-style-type: none"> <li>• Ph.D. Kongu Engineering College, Erode. Anna University Chennai July 2015 Information and Communication Engineering</li> <li>• M.TECH (BME) - Indian Institute of Technology Madras, Chennai. May 2004 Biomedical Engineering</li> <li>• B.E (ICE) Arulmigu Kalasalingam College of Engineering, Madurai Madurai Kamaraj University, Madurai May 1995 Instrumentation and Control Engineering.</li> </ul> <p><b>Research interests are Biomedical Image Processing, Retinal Image Diagnosis, Softcomputing techniques and Instrumentation.</b></p>
--	--

### 18.08.2021 - Session 9 - Mr. N. Arumuga Perumal

	<p><b>Mr. N. Arumuga Perumal,</b> Senior Manager - Instrument DOW Chemicals International Pvt Ltd, Chennai.</p> <ul style="list-style-type: none"> <li>• <b>Arumuga Perumal</b></li> <li>• <b>BE (I&amp;C), 1995 batch</b></li> <li>• <b>A.K.College of Engineering, Madurai Kamaraj University</b></li> <li>• <b>Senior Manager (Inst)</b></li> <li>• <b>25 yrs. of exp. In Instrument Engineering, Project Management &amp; Construction</b></li> <li>• <b>Leading capital projects, Mentor, Quality auditor, Technical team member</b></li> </ul>
---	--

*Signature*

**19.08.2021 - Session 10 - Dr. I. Thirunavukkarasu**



**Dr. I. Thirunavukkarasu**

Associate Professor - Senior Scale  
Department of Instrumentation Engineering  
Manipal Institute of Technology,  
Manipal- 576 104.

**Associate Professor - Senior Scale & Group Leader - Control Systems**  
**Young Scientist Scheme Grant Awardee (2013 - 2017) - DST, Govt. of India**  
**Co-PI, ISRO Research Project on Quadrotor-(2019-2021)**  
**Dept. of Instrumentation and Control Engg., Manipal Institute of Technology**  
**Manipal - 576 104 - Karnataka - India**  
**Ph: +91-820-2925151 / Fax: +91-820-2571071 / Mobile: +91-9740731983**  
**Email: itarasu1881@gmail.com / it.arasu@manipal.edu**

**19.08.2021 - Session 11 - Mr. Dileepan G S**



**Mr. Dileepan G S**

Sr. Engineer,  
Loss Prevention/ HSE Design,  
Technip Energies,  
A4, Sector 1, Noida,  
U.P. – 201301

HSE Design engineer with 6+ years of experience in FEED, detailed engineering and proposal type of jobs in the field of onshore gas processing, Refineries, and LNG. Performed a key role in various National and International projects.

**Educational Qualifications**

- Master of Technology in Health, Safety & Environment from UPES, Dehradun (2013 – 2015).
- Bachelor of Technology in Petrochemical from Anna University, Trichy (2009 – 2013).

**19.08.2021 - Session 12 - Dr.S.Vijayachitra**




**Dr.S.Vijayachitra**

Professor & Head  
Department of EIE  
Kongu Engineering College,  
Perundurai-638060


**B.E –ECE-1994-Mookambigai College of Engineering, Pudukkottai**  
**M.E-PC&I-2001-Annamalai University, Chidambaram**  
**Ph.D-2009-Anna University, Chennai**

She is the approved supervisor under Anna University, Chennai and 10 research scholars have awarded Ph.D under her Supervision. She Published 06 Engineering textbooks under reputed publishers and more than 100 research papers in various refereed international and national journals. She has filed three Patents and organized various programmes with sponsorship from various funding agencies. Her areas of interest include Soft computing techniques, process optimization, industrial automation and etc.

**20.08.2021 - Session 13 - Mr.R.N.Balasubramaniam**

	<p><b>Mr.R.N.Balasubramaniam</b> Assistant Engineer Instrumentation &amp; Control System SABIC Kingdom of Saudi Arabia. Completed Bachelors in Electronics and Instrumentation, 13 plus of experience in Elastomers industry</p> <p>Has been part of design and commissioning of 5 elastomer units</p> <p>Currently working as Asset Engineer for Instrument and control system for poly butadiene rubber and product handling systems unit of AlJubail petrochemical company Kingdom of Saudi Arabia, a joint venture of sabic and ExxonMobil</p>
---	--

**20.08.2021 - Session 14 - Mr.Siva Subramanian**

	<p><b>Mr.Siva Subramanian</b> Manager-Flow Products Yokogawa Middle East, ICAD-1, PO Box 112873 Mussafah, Abu Dhabi, UAE.</p> <p>20+ experience in oil and gas fields. Worked as Flow specialist in Yokogawa, Emerson, Honeywell, etc.</p>
--	--

The inauguration was held on 16th August 2021 online at 11:00 am. Screenshot is given.



The banner features the AICTE and ATAL logos at the top. The central text reads "ALL INDIA COUNCIL FOR TECHNICAL EDUCATION AICTE TRAINING AND LEARNING (ATAL) ACADEMY". Below this, it says "Inaugural Ceremony" in a large, stylized font. The date and time are "27 ATAL FDP's", "16th August 2021", and "11:00AM to 11:30AM". A "MEDIA AICTE" logo is also present. Three individuals are featured in portraits: Dr. K. N. Satyanarayana (Chief Guest, Director, IIT, Tirupati), Prof. M. P. Poonia (Guest of Honor, Vice-Chairman, AICTE), and Dr. Mamta R. Agarwal (Advisor-I, Atal Academy, AICTE). The bottom of the banner shows a collage of logos from various technical institutions and a background image of a historical fort.

*gub*



## ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

### AICTE Training and Learning (ATAL) Academy

# *Certificate*

This is certified that **S JANARTHANAN**, Assistant Professor of **Kongu Engineering college** participated & completed successfully AICTE Training And Learning (ATAL) Academy **Online Elementary FDP** on "**Edge computing technologies for Smart Factory Automation and Industry 4.0**" from **16/08/2021** to **20/08/2021** at **Kongu Engineering College**.

Advisor-I, ATAL Academy  
Dr. Mamta Rani Agarwal



Coordinator



# KONGU ENGINEERING COLLEGE

[AUTONOMOUS]

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- >> Overview of Machine Learning and Deep Learning
- >> Fine tuning for deep learning
- >> Military Applications of UAVs and Drones
- >> Deep Learning for Computer Vision Systems
- >> Practical Approaches for implementing Deep learning in Computer Vision Systems
- >> Deep learning in Action

### CONVENER

**Dr. S. VIJAYACHITRA**

### CO-ORDINATORS

**Dr. N. MAHESH**

**Ms. M. LIZZY NESA BAGYAM**

**FREE REGISTRATION**

**E-CERTIFICATES WILL BE PROVIDED**

(02) -- NOVEMBER -- (03)

SCAN ME



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**KONGU ENGINEERING COLLEGE, PERUNDURAI – 638 060**  
**DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING**

**TNSCST Sponsored Two Day National Seminar on**  
**“DEEP LEARNING TECHNIQUES FOR MILITARY SURVEILLANCE APPLICATIONS”**  
(02.11.2020 & 03.11.2020)

**PARTICIPANTS LIST**

S.NO	NAME OF THE PARTICIPANT	DEPARTMENT	INSTITUTION
1.	A. V. Lakshmi Prasuna	IT	Mahatma Gandhi Institute Of Technology
2.	Andrew Jebraj Godson A.	EEE	Kumaraguru College of Technology
3.	Antony Vijay J	IT	Hindusthan College of Engineering and Technology
4.	Aswini Janet J. A	EIE	Bharathiar university
5.	Benson Mansingh P M	ECE	Sri Ramakrishna Institute Of Technology
6.	D.Menaga	CSE	B.S.Abdur Rahman Crescent Institute of Science and Technology
7.	Darshan Km	BME	Srm Institute Of Science And Technology
8.	Dr .S Sridevi	IT	Thiagarajar College of Engineering
9.	Dr. Minaxi Shivdas Bhagwat	EDUCATION	The Maharaja Sayajirao University Of Baroda
10.	Dr. S. Selvakanmani	CSE	Velammal Institute of Technology
11.	Dr. SHANTHI S	CSE	Kongu Engineering College
12.	Dr. Sunita Panda	ECE	GITAM Deemed to be University
13.	Dr.Kamalanathan Chandran	EECE	GITAM University, Bengaluru Campus
14.	Dr.P.Keerthika	CSE	Kongu Engineering College
15.	Dr.Sharmilee	ECE	Nandha Engineering College
16.	Dr.T.Jobby Titus	ECE	Sri Ramakrishna Institute of Technology
17.	G Merlin Linda	CSE	SRM Institute of Science and Technology
18.	Gokulnath.S	ECE	Jai shriram Engineering college, Tirupur
19.	Hariprasad E	EEE	Kumaraguru college of technology
20.	Indhu N	CIE	Kongu Engineering College

*NUCB*  
*23/11/2020*

*Sub*  
*23/11/2020*

**KONGU ENGINEERING COLLEGE, PERUNDURAI – 638 060**  
**DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING**

TNSCST Sponsored Two Day National Seminar on  
**"DEEP LEARNING TECHNIQUES FOR MILITARY SURVEILLANCE APPLICATIONS"**  
 (02.11.2020 & 03.11.2020)

**PARTICIPANTS LIST**

21.	Jayaprakash D	CSE	Kongu Engineering College
22.	M.Sangeetha	CSE	Kongu engineering college
23.	Manjula Devi R	CSE	Kongu engineering college
24.	Aftab Ahmad Mir	IT	Shri Venkateshwara University
25.	Munaf S	ECE	Sri Ramakrishna institute of technology
26.	Nandhagopal S	EIE	bharathiar university
27.	Padma Priya J	EECE	GITAM School of Technology, Bengaluru
28.	Ragini K	ECE	CEG Campus Anna University
29.	Rajalakshmi. P	E & I	Kongu Engineering College
30.	Reshnuvi R V	EIE	Kongu engineering college
31.	Revathi P	EIE	Kongu Engineeing college
32.	S.G.Rahul	EIE	Madras Institute Of Technology,Chrompet
33.	S.Maheswari	EEE	Kongu Engineering College
34.	Sekar G	ECE	Sri Ramakrishna Institute of technology
35.	Shankar A	ECE	Sri Ramakrishna Institute of Technology
36.	Soubraylu Sivakumar	CSE	K L University
37.	Sowmya.R	ECE	College of Engineering
38.	Sudheer Reddy Bandi	CSE	Tagore Engineering College
39.	Swathi. D	EIE	Kongu Engineering College
40.	T. Vinitha	EIE	Kongu Engineering college
41.	Yuvaraj. K	EIE	Kongu Engineering College

*N. Mahesh*  
 23/11/2020  
 Co-ordinators  
 (N. Mahesh)

*S. J. Sathish*  
 23/11/2020  
 HOD (EIE)

## Photographs (Screenshots of sessions)

A screenshot of a Google Meet interface. The main video area shows a presentation slide titled "Real Scenario – Try to find Maths behind the Learning algorithms". The slide features a person in a lab coat and various mathematical symbols. Below the title, it says "What happened to us?" and "He tried to study the maths behind deep learning". The bottom of the slide has the text "ABE SEMICONDUCTOR DESIGNS". To the right of the main video, there is a vertical list of participants: MESHANKAR ABIRKUMAR, sunila parul, and M LUZZY NESA BAGYAM. Below the participants list, there is a "Meeting details" sidebar showing a list of participants including N MAHESH mahesh.kk (You), ABE SEMICONDUCTOR DESIGNS (Priv.), ABE SEMICONDUCTOR DESIGNS, Aarini Janat, Dr S Sridevi, EEE DEET Meet, Gani Ibrahim, and Harivardhan E. At the bottom of the screen, there are icons for microphone, video, chat, and a "Turn on captions" button. The text "ABE SEMICONDUCTOR DESIGNS is presenting" is visible at the bottom right.

A screenshot of a video player interface. The video title is "hhy-znsq-fhn (2020-11-03 at 00:43 GMT-8)". The video content shows a presentation slide titled "Components of Time series Forecasting". The slide features a central graphic with a clock icon and the text "Time Series Data". To the right of the graphic, there is a list of components: Seasonal, Trend, Cyclical, and Irregular. The video player controls at the bottom show a play button, a progress bar at 17:42 / 1:05:32, and icons for closed captions, settings, and full screen.

hhy-znsq-fhn (2020-11-02 at 00:36 GMT-8)

## Unstructured DataSet : Text

### REVIEW

The rooms were good and I liked the location since it was good

The hotel was very bad and the stay was unpleasant

Liked the huge play area and the food was nice

The stay was good and pleasant

The location was good but was bad overall because The staff were rude

### SENTIMENT



Python Toolkit : nltk  
Python Packages : string, re

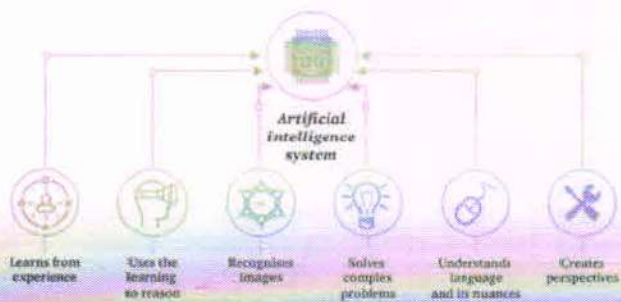


Lovelyn Rose

0:43 / 2:25:23



## Artificial Intelligence System



Source: IBM Watson



Lakshminarayanan G

26:44 / 3:19:09



**Programme Report for the Sponsored Seminar**

TNSCST RefNo. & Date	TNSCST/PFA/SSW/VR/Batch-2/ 73 /2019-20/12415, Dated: 28.09.2020
Nature of the activity	: Seminar
Duration with dates:	: Two days – 02.11.2020 and 03.11.2020
Topic	: National Seminar On “Deep Learning Techniques for Military Surveillance Applications”
Grant Sanctioned	Rs.20,000/-

**Organizing Team**

Organizing Secretary & Convener: Dr.S. Vijayachitra  
Professor and Head  
Department of Electronics and Instrumentation Engineering,  
Kongu Engineering College,  
Perundurai, Erode - 638 060, TN.  
Tel.: +91 - 4294 226550,  
Mobile No.: +91 – 98657 80707  
E-mail: [svijayachitra@kongu.ac.in](mailto:svijayachitra@kongu.ac.in)

**Co-ordinators:**

1. Dr. N. Mahesh,  
Associate Professor,  
Department of Electronics and Instrumentation Engineering,  
Kongu Engineering College,  
Perundurai, Erode - 638 060, TN.  
Mobile No.: +91 – 999441 97349  
E-mail: [mahesh@kongu.ac.in](mailto:mahesh@kongu.ac.in)

2. Ms. M. Lizzy Nesa Bagyam,  
Assistant Professor (Senior Grade),  
Department of Electronics and Instrumentation Engineering,  
Kongu Engineering College,  
Perundurai, Erode - 638 060, TN.  
Mobile No.: +91 – 99439 60655  
E-mail: [lizzy@kongu.ac.in](mailto:lizzy@kongu.ac.in)

2. Duration / Period of the organized event : (02.11.2020 and 03.11.2020)
3. Grant Sanctioned : Rs.20, 000/-  
(Rupees Twenty Thousand Only)
4. Have you submitted the Utilization Certificate? : Yes

*Nilgarp*  
*23/11/2020*

*Sub*  
*23/11/2020*

### 5. Brief Summary of the event

A two day national seminar on "DEEP LEARNING TECHNIQUES FOR MILITARY SURVEILLANCE APPLICATIONS" has been successfully conducted on 02 and 03 November 2020 with the financial support from TNSCST.

This national seminar deliberated the theory and implementation of machine learning techniques in the focused area of surveillance. Machine learning is an application of artificial intelligence (AI) that provides systems the ability to automatically learn and improve from experience without being explicitly programmed. Machine learning focuses on the development of computer programs that can access data and use it learn for themselves.

This seminar focused on the Drones which is used as autonomous flights with the help of dynamic automation systems and based on pre-programmed flight plans. It finds increased role in high-profile attacks execution and in avoiding conflicts. Some military versions drones can stay in air for hours or days at a time, and their high-tech cameras can scan entire cities, or alternatively.

Also, seminar throws a light on the area for further improvising research and provide the state-of-art knowledge on various aspects of machine learning techniques and Deep learning in military areas.

### List of Experts

1.	Mr.G.Laxminarayanan, Founder – Myshiksha, Bengaluru
2.	Dr.S.Lovelyn Rose, Associate Professor, Department of CSE, PSG College of Technology, Coimbatore
3.	Dr.A.Athif Shah, ABE Semiconductor Designs, Chennai
4.	Dr.S.Vijayachitra Professor and Head, Department of EIE, Kongu Engineering College
5.	Mr.T. Vignesh Prabhu, System and Solution Architect, ABE Semiconductor Designs, Chennai

41 participants from various institutions are benefited through this seminar. We sincerely thank TNSCST for financially supporting to organize the seminar on this important and fast growing field in Deep Learning.

*Nilesh*  
23/11/2020

*Sub*  
23/11/2020



## KONGU ENGINEERING COLLEGE

(AUTONOMOUS)

Perundurai, Erode – 6380 60



DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGINEERING

### CERTIFICATE OF PARTICIPATION

This is to certify that

## S.G.RAHUL

has participated in the TNSCST Sponsored Two Day National Seminar on “DEEP LEARNING TECHNIQUES FOR MILITARY SURVEILLANCE APPLICATIONS”, organized by the Department of Electronics and Instrumentation Engineering, Kongu Engineering College on 02.11.2020 and 03.11.2020

*N.Mesh*

Dr. N.MAHESH  
MLIZZY NESA BAGYAM  
Co-ordinators



*Sgch*

Dr. S.VIJAYACHITRA

HoD / EIE

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