



swAll India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)
Nelson Mandela Marg, Vasant Kunj, New Delhi-110070 Website: www.aicte-india.org



To
R&D Co-ords
Dr. mPB
S. Jeyaraj

AICTE TRAINING AND LEARNING (ATAL) ACADEMY (ONLINE FDP)

F. No. 01-App No.1614071785/AICTE/ATAL-HQ/2021-22/535 Date: 20th July, 2021

To
Dr. S Vijayachitra
Coordinator for ATAL Online FDP,
Kongu Engg. College
Perundurai
TAMIL NADU

Sub: Release of a sum of Rs 93,000 /- [Rupees Ninety three thousand only] for AICTE Training and Learning (ATAL) Academy programme Online FDP.

Sir,

This is to convey the sanction of the Council for payment of **Rs. 93,000 /- (Rupees Ninety three Thousand Only)** for conduct of online **AICTE Training And Learning (ATAL) Academy Programme [Edge computing technologies for Smart Factory Automation and Industry 4.0]** from **16.08.2021 to 20.08.2021** to (Kongu Engg. College, , Perundurai) under AICTE Training and Learning (ATAL) Academy.

This fund is being released in conformity with the terms & conditions as well as norms of the scheme as already communicated, and also being communicated in this letter.

The instructions/guidelines to be followed by University/Institution

I. Release of funds and maintenance of accounts

- The University/College/Institute shall maintain proper accounts of the expenditure out of the grants, which shall be utilized only on approved items of expenditure.
- The cost for conducting per programme will be Rs. 93,000/- as per detail given as under:

1.	Honorarium for Coordinator	Rs.	10,000/-
2.	Honorarium to Computer Operator	Rs.	2,000/-
3.	Honorarium for experts (Rs. 5000 per session for total 14 session)	Rs.	70,000/-
4.	Provision for payment to Lab Attendant	Rs.	1,000/-
5.	Miscellaneous charges [Petty expenses not covered above]	Rs.	10,000/-
TOTAL:		Rs.	93,000/-

Programmes having permission to change amounts under different heads with overall ceiling of Rs 0.93 lakh being intact.

- The grant is subject to the adjustment on the basis of Utilization Certificate in the prescribed proforma to be submitted by the University/College/Institution. Further, the accounts of the institute will be open for test check by the Council or Controller & Auditor General of India or any other officer designated by them.

II. Disbursement of funds to institutions

The full amount of the grant sanctioned will be released as an advance to the University/ Institute through electronic transfer on the account of the University/Institute after submission of mandate form.

III. Conduct of test and issuance of certificate

- A test shall be conducted by coordinator at the end of the program.
- The certificates shall be issued to those participants who have approved by coordinator attended the program with minimum **80% of attendance** and scored **minimum 60% marks** in the test.

All India Council for Technical Education
Nelson Mandela Marg, Vasant Kunj, New Delhi – 110070

Mandate Form for Institute / College / University / Other Organizations

To
Dr. MPB
10/18/20

1	Name of the Beneficiary Institute	KONGU ENGINEERING COLLEGE
2	Permanent ID of the Institute	1-3589631
3	Head of the Institute (Tick one)	Director / Registrar / Principal / Others
4	Type of Institute (Tick One)	Govt. / Govt. Aided / Self Finance / Private etc.
5	Address of Institute	Perundurai Railway Station Road Thoppupalayam, Perundurai Erode District, Tamilnadu PIN: 638 060
6	PAN No. of the Institute	AAAAC1117B
7	GST No. of the Institute	NA
8	E-Mail id of the Head of the Institute	principal@kongu.ac.in
9	Name of the Bank	Karur Vysya Bank
10	Branch Name and Branch Code	KEC Nagar, Perundurai Branch Code: 1247
11	Address of the Bank with PIN code	Kongu Engineering College Campus Perundurai, Erode PIN: 638 060
12	Telephone No. of the Bank	04294 – 220612, 226761
13	Name of the account holder with designation	THE PRINCIPAL KONGU ENGINEERING COLLEGE Designation: Principal
14	Account Type (Tick one)	Savings / Current
15	Account Number	1247155000132631
16	Bank Branch IFSC Code	KVBL0001247
17	Bank Branch MICR Code	638053013
18	Whether the Account is in the Name of Beneficiary Institute (Tick One)	Yes / No
19	Whether the Account is Operational (Tick One)	Yes / No
20	Whether the Account is No-Frill Account (Tick One)	Yes / No
21	Whether the Account is Joint Account (if yes give details)	Yes / No

It is declared that all information provided above are true and complete in all respects.

Signature of Account Holder
with Designation or

Authorized Signatory with Institute seal
Date:

PRINCIPAL
KONGU ENGINEERING COLLEGE
THOPPUPALAYAM (PO)
PERUNDURAI (TK), ERODE - 638 060
TAMILNADU, INDIA

Certified that the above details are verified on
(date) 22/11/2020

Banker's Signature with Seal



**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 16th August to 20th 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



	PSG College of Technology, Anna University 2007 MBA IGNOU, New Delhi 2006 ME PSG College of Technology, Coimbatore 1997 BE University of Madras.
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16.08.2021 - Session 3 - Mr. R. Mohammed Ghouse

	Mr. R. Mohammed Ghouse, CEO - Kalchi Controls, Tiruchirappalli. □ Engineer from Mookambigai College of Engineering with post graduation in Business Administration from Annamalai University. □ Having 26 years of experience in Industrial Automation □ 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. □ Have visited Middle East, Germany, UK and other countries for official discussions □ Have started KALCHI CONTROLS an electrical and Automation company in the year 2019. □ Ventured into Electrical Retailing, Distribution of Electrical Products, Home Automation and Industrial Automation. □ Committee member of ECE department in Periyar Polytechnic, Vallam. □ Committee member of ECE department in Periyar University, Thanjavur. □ Graduated as Zone Trainer by JCI India. □ Zone Director – JIB (Jaycees in Business), Zone 23, JCI India and have started 4 Business Tables with more than 150 entrepreneurs □ Member of Lions Fortune, Trichy
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17.08.2021 - Session 4 - Ms.Y.Uma Maheshwari

	Ms.Y.Uma Maheshwari Manager Technology Pramura Software (P) Ltd., Coimbatore. Education: • Pursuing part time PhD in the area of EMI filter design. • M.E in Embedded systems and Technologies in Anna University, Coimbatore. • B.E in Electrical & Electronics Engineering in Amrita Institute of Technology, Coimbatore. Areas of Expertise: • High speed PCB design • Post processing of PCB design • Package system design • EMI and SI analysis • Power Electronics • Cross functional analysis
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Signature

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

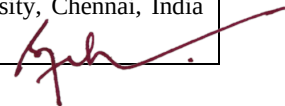
	Dr. I.A. Palani Associate Professor Department of Mechanical Engineering IIT Indore. Education qualification • Ph.D from Precision Engineering lab, Department of Mechanical Engineering, IIT Madras (2006-2010) • M.E. in Manufacturing Engg. from A.C. Govt. College of Engineering and Technology Karaikudi, Anna University (2004-2006) (Passed in Distinction) • B.E in Production Engineering from Sathyabama Engineering college, University of Madras(2000-2004) (Passed in Distinction and University Rank holder) Research Expertise • Smart Materials and Structures • Shape memory alloy • Laser assisted Surface processing and micro-manufacturing • Energy Harvesting • Mechatronics system design • optical Instrumentation
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17.08.2021 - Session 6 - Mr.S.Senthil

	Mr.S.Senthil Manager- Instrument, Tamilnadu Newsprint & Papers Limited, Karur. PROFESSIONAL PROFILE: 16 Years Experience in instrumentations field. □□Presently working in M/s Tamilnadu Newsprint and Paper limited (A Govt of Tamilnadu Enterprises) as Manager – Instrumentation Projects since May 2014. □□Previously Worked in M/s Yokogawa India Ltd as Assistant Manager – CSD since august 2006 to April 2014 in south region (Chennai). □□Previously Worked in M/s Seshasayee Paper & BoardsLtd (ISO 9001 &14001 Company); Erode as assistant officer from June 2004 to July 2006. ACADEMIC PROFILE: Bachelor of Electronics & Instrumentation Engineering/ Kongu Engineering College, Perundurai, / Bharathiar University, Coimbatore,First Class with Distinction
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18.08.2021 - Session 7 -Mr. Puviarasan Maduraipandiyan

	Mr. Puviarasan Maduraipandiyan Founder and CEO Dynatral Tech. Coimbatore. Academics 2008-11 : Diploma in Mechatronics Engg, Govt. Polytechnic Chennai, India. 2011-14 : Bachelors of Mechatronics Engg, Kongu Engg College, Erode, India 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).
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	Puviyarasan Maduraipandiyar is the Founder and CEO of Dynättrai Tech, which he started from his native village during January 2017. Puviyarasan is the Industrial Consultant for Layout, Operations & Process Optimization, Inventory & 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.
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18.08.2021 - Session 8 - Dr.M.Ponni Bala

	Dr.M.Ponni Bala Associate Professor Department of EIE Kongu Engineering College, Perundurai-638060. Educational Qualification: • Ph.D. Kongu Engineering College, Erode. Anna University Chennai July 2015 Information and Communication Engineering • M.TECH (BME) - Indian Institute of Technology Madras, Chennai. May 2004 Biomedical Engineering • B.E (ICE) Arulmigu Kalasalingam College of Engineering, Madurai Madurai Kamaraj University, Madurai May 1995 Instrumentation and Control Engineering. Research interests are Biomedical Image Processing, Retinal Image Diagnosis, Softcomputing techniques and Instrumentation.
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18.08.2021 - Session 9 - Mr. N. Arumuga Perumal

	Mr. N. Arumuga Perumal, Senior Manager - Instrument DOW Chemicals International Pvt Ltd, Chennai. • Arumuga Perumal • BE (I&C), 1995 batch • A.K.College of Engineering, Madurai Kamaraj University • Senior Manager (Inst) • 25 yrs. of exp. In Instrument Engineering, Project Management & Construction • Leading capital projects, Mentor, Quality auditor, Technical team member
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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



Mr.R.N.Balasubramaniam

Assistant Engineer Instrumentation & Control System SABIC Kingdom of Saudi Arabia.

Completed Bachelors in Electronics and Instrumentation, 13 plus of experience in Elastomers industry

Has been part of design and commissioning of 5 elastomer units

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

20.08.2021 - Session 14 - Mr.Siva Subramanian



Mr.Siva Subramanian

Manager-Flow Products
Yokogawa Middle East, ICAD-1,
PO Box 112873
Mussafah, Abu Dhabi, UAE.

20+ experience in oil and gas fields.

Worked as Flow specialist in Yokogawa, Emerson, Honeywell, etc.

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

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
AICTE TRAINING AND LEARNING (ATAL) ACADEMY

Inaugural Ceremony
27 ATAL FDP's
16th August 2021
11:00AM to 11:30AM
MEDIA AICTE

CHIEF GUEST
Dr. K. N. Satyanarayana
Director, IIT, Tirupati

GUEST OF HONOR
Prof. M. P. Poonia
Vice-Chairman, AICTE

Dr. Mamta R. Agarwal
Advisor-I, Atal Academy,
AICTE

Signature

RESOURCE PERSONS

Sessions will be handled by eminent persons from reputed Institutions.

HOW TO APPLY?

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

ELIGIBILITY AND SELECTION

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

REGISTRATION:

- No Registration Fee
- Max. 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”

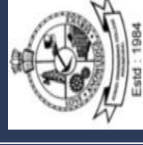
Dept of Electronics and Instrumentation
Engineering,

School of Electrical Sciences

Kongu Engineering College,

Perundurai-638060, Erode, TamilNadu.

Mobile : 9865780707, 9843999554,
9865067310



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

**Department of Electronics and Instrumentation
Engineering**

Tel : 04294 - 226550

Fax : 04294 - 220087

E-mail : hod_eie@kongu.ac.in

pomnibala@kongu.ac.in

prabhu@kongu.ac.in

Website : www.kongu.ac.in



ABOUT THE COLLEGE

Kongu Engineering College (KEC) established in 1984, approved by AICTE, New Delhi, accredited by NAAC for 5 years 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 14 UG, 19 PG and 16 research programmes in Engineering and Applied Sciences. It is one of the best self financing engineering colleges imparting high quality technical education in Tamil Nadu, India, and is well-known for its technical excellence, modern facilities, record of performance with excellent results and enterprising students. Ranked 1st Position in Tamilnadu and 39th position at all India level by “Outlook” magazine, 3rd Position in Tamilnadu and 32nd Position in private Engineering colleges in India

ABOUT THE DEPARTMENT

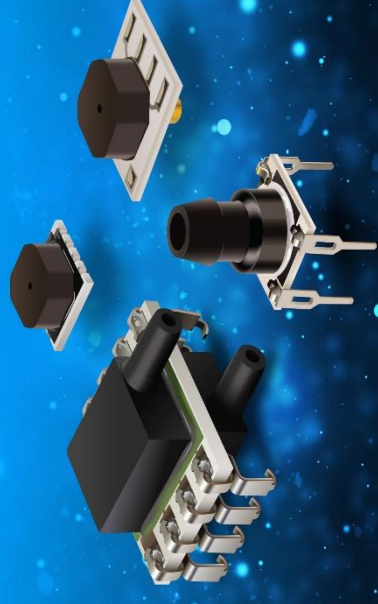
The Department of Electronics and Instrumentation Engineering is offering a full time four year B.E degree course in Electronics and Instrumentation Engineering and M.E course in Control and Instrumentation Engineering. This field of engineering imparts technical knowledge in the areas of Electronics Engineering, Biomedical Instrumentation, Control Systems, Signal and Image Processing, Embedded Systems, VLSI, Neural Networks and Fuzzy Logic. Department has sound infrastructural facilities including separate laboratories like Biomedical Instrumentation, Virtual Instrumentation, DSP, PLC and DCS. 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 – 638 060

(Autonomous)

Perundurai, Erode – 638060, Tamilnadu, India



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)

Sl. No.	Date	Time	Session	Topic	Speaker details
1.	16.08.2021	9.00am to 11.00am	Session 1	Registration & Inauguration Smart factory as a key construct for realization of Industry 4.0	Dr. N. Arunachalam Associate Professor Department of Mechanical Engineering IIT Madras.
2.		11.30am to 1.30pm	Session 2	Artificial Intelligence, Predictive Analysis for Industrial Automation: Concepts & Use Cases	Dr. L.Ashok Kumar Professor Department of Electrical & Electronics Engineering PSG College of Technology, Coimbatore - 641 004.
3.		2.30pm to 4.30pm	Session 3	Wireless factory automation: Next-Generation Autonomous Systems	Mr. R. Mohammed Ghouse, Managing Director Micromax Systems Private limited, Tiruchirappalli.
4.	17.08.2021	9.00am to 11.00am	Session 4	PCB for IOT Applications and EMI Mitigations Techniques in IoT Products	Ms.Y.Uma Maheshwari Manager Technology Pramura Software (P) Ltd., Coimbatore .
5.		11.30am to 1.30pm	Session 5	Smart Materials and Structures	Dr. I.A. Palani Associate Professor Department of Mechanical Engineering IIT Indore.
6.		2.30pm to 4.30pm	Session 6	Paper Making 4.0:Automation in Paper Machine Finishing House	Mr.S.Senthil Manager- Instrument, Tamilnadu Newsprint & Papers Limited, Karur.

7.	18.08.2021	9.00am to 11.00am	Session 7	Industry 4.0: A Broad spectrum analysis	Mr. Puviarasan Maduraipandiyan Founder and CEO Dynatral Tech. Coimbatore.
8.		11.30am to 1.30pm	Session 8	Demonstration and hands-on training on Controllers for Industrial systems	Dr.M.Ponni Bala Dr.K.Prabhu Associate Professor Department of EIE Kongu Engineering College, Perundurai-638060.
9.		2.30pm to 4.30pm	Session 9	Role of Instrument Engineer in Design and Automation in Process Industries	Mr. N. Arumuga Perumal, Senior Manager - Instrument DOW Chemicals International Pvt Ltd, Chennai.
10.	19.08.2021	9.00am to 11.00am	Session 10	Data driven modeling of non linear process with NMPC implementation	Dr. I. Thirunavukkarasu Associate Professor - Senior Scale Department of Instrumentation Engineering Manipal Institute of Technology, Manipal- 576 104
11.		11.30am to 1.30pm	Session 11	Emerging Trends in Automation with latest DCS/ESD Overview& Wireless	Mr. Dileepan G S Sr. Engineer, Loss Prevention/ HSE Design, Technip Energies, A4, Sector 1, Noida, U.P. - 201301
12.		2.30pm to 4.30pm	Session 12	Developing Resilience to Stress Management	Dr.S.Vijayachitra Professor & Head Department of EIE Kongu Engineering College, Perundurai-638060
13.	20.08.2021	9.00am to 11.00am	Session 13	Ear-Eyes of Industry 4.0	Mr.R.N.Balasubramaniam Assistant Engineer Instrumentation & Control System SABIC Kingdom of Saudi Arabia.
14.		11.30am to 1.30pm	Session 14	Sensor Technology-Flow Instruments	Mr.Siva Subramanian Manager-Flow Products Yokogawa Middle East, ICAD-1, PO Box 112873 Mussafah, Abu Dhabi, UAE
15.		2.30pm to 4.30pm	Assessment test and Valedictory Function		



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

Some of the screenshots of Sessions is given.

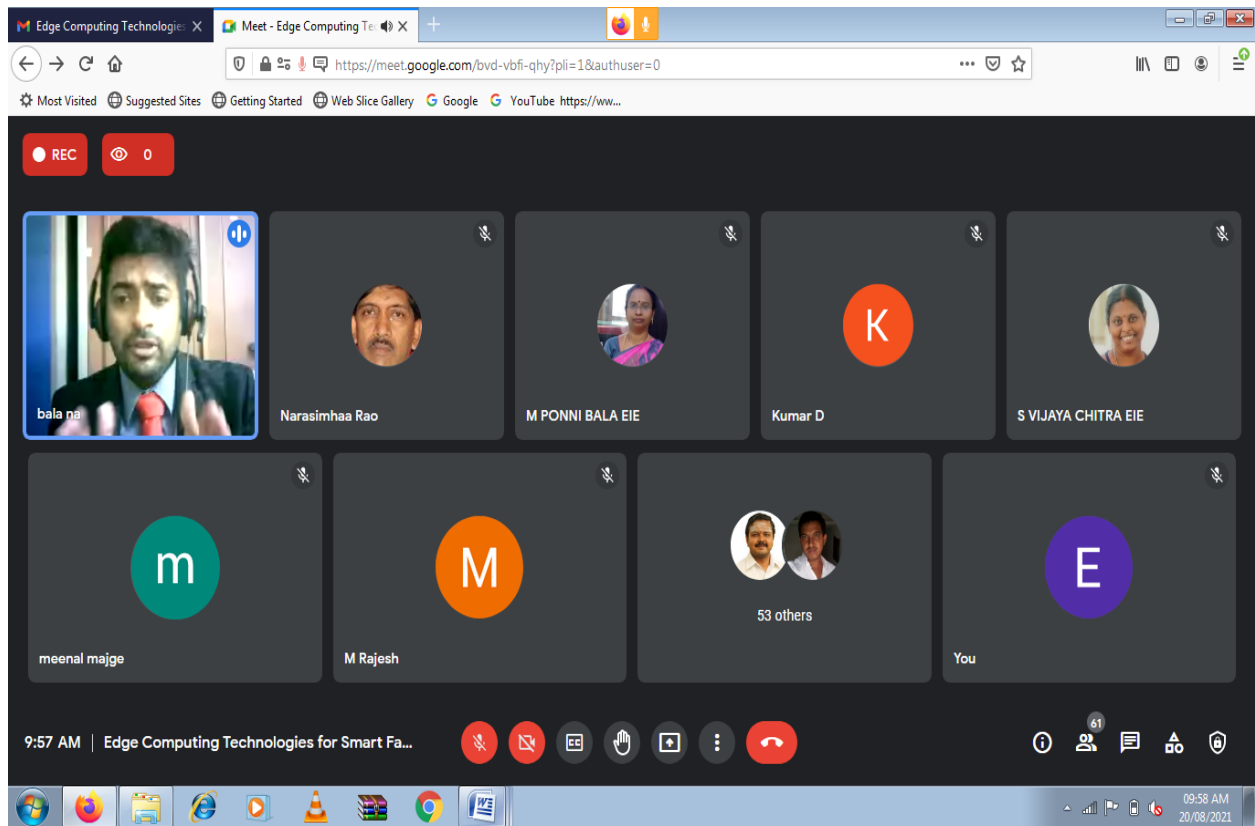
19.08.2021 - Session 10 - Dr. I. Thirunavukkarasu

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 purpose 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 title is "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 includes 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 slide also includes a disclaimer: "Disclaimer: The figures taken from different reference are used for educational purpose only". The right sidebar shows a grid of participants: Dr. I A Palani, Veera, EIE EIE1-Meet, SUJI PRASAD SJ, Priyadharshini K, Vivek Mankotia, meenal majje, Shahzada Akhter, Sandeep Bhatia, tanuja mote, 34 others, and You. The bottom status bar indicates the time is 11:33 AM and the session title is "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
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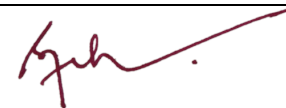
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Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

AICTE Training and Learning (ATAL) Academy

Certificate

This is certified that Sureshkumar Ramasamy, Assistant Professor of Kongu Engineering College, Perundurai 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
Mamta Rani Agarwal



Coordinator

20/8/21

KONGU ENGINEERING COLLEGE, PERUNDURAI-638060
UTILIZATION CERTIFICATE FOR THE FINANCIAL YEAR 2021-2022

Name of the Scheme under which Grant was sanctioned **ATAL-FDP**
 (to be submitted separately for each sanction order)

AICTE File No.

: F.No. 01-App No.1614071785/AICTE/ATAL-HQ/2021-22/535

Date: 20th July, 2021

Name of Co-ordinator

: Dr.S.VIJAYACHITRA

Application No.

: 1614071785

Title of the ATAL Programme

: Edge Computing Techniques for Smart Factory Automation and Industry 4.0

Sl. No.	AICTE Sanction Order/Letter No. & Date under which grant was sanctioned	Amount (Rs.)	
1.	F.No. 01-App No.1614071785/AICTE/ATAL-HQ/2021-22/535 Date: 20 th July, 2021	93,000.00	Certified that out of the grant-in-aid of Rs. 93,000.00 (Rupees Ninety three Thousand only) sanctioned by the AICTE during the financial year 2021-2022 in favour of Kongu Engineering College as per letter mentioned in the margin, Rs. Nil on account of unspent balance of previous year, Rs. Nil on account of other income / receipts, a sum of Rs. 93,000.00 (Rupees Ninety three Thousand only) has been utilized for the purpose for which it was sanctioned and the balance of Rs. Nil remained unutilized at the end of the year.

Certified that I have satisfied myself that the conditions on which the grant-in-aid was sanctioned have been duly fulfilled and that I have exercised the following checks to see that the money was actually utilized for the purpose for which it was sanctioned.

Kind of checks exercised:-

Audited Annual Accounts of the Institute Receipt
 and Payment account Periodical Progress Reports.

(1). Name, Signature & Address of the Claimant/Awardee/Coordinator with seal:

Dr.S.Vijayachitra
 Professor and Head,
 Department of EIE
 Kongu Engineering College, Perundurai-638060

[Signature]
 Dr S Vijayachitra
 Professor & Head
 Dept. of Electronics & Instrumentation Engg.
 Kongu Engineering College
 Theppupalayam (Po)
 Perundurai, Erode - 638 060

2). Signature of Chartered Accountant:

Name of Chartered Accountant:

Membership No:

UDEN-21026921AAAAFNE066

Full Address:

C. VELUMANI, B.Sc., F.C.A.,

Rubber stamp

Chartered Accountant

35/1, Annamalai Layout,

Puliyasampet Road, Erode - 638 011.

M. No. 087721.

Date:

(3). Signature of the Finance Officer/Accounts Officer:

Name of the Finance Officer/Accounts Officer:

(If it is Govt./Govt. Aided Institute)

Note: If it is more than one page, each page must be signed in all annexures

(3). Signature of Head of the Institute:

Name & Designation of the Head of Institute:

Dr.V.Balusamy,

Principal

Full Address: Kongu Engineering College

Perundurai-638060

Rubber stamp:

PERUNDURAI (TK) ERODE-638060
TAMIL NADU INDIA

Date:

Nil

[Signature]
 18/9/21

**KONGU ENGINEERING COLLEGE, THOPPUPALAYAM, PERUNDURAI,
ERODE- 638 060.**

Ref No.:

DATE : 01.09.2021

GRANT ACCOUNT SETTLEMENT FORM

1	Co-ordinator's Name & Designation	Dr. S. Vijayachitra, Professor & Head Dr. M. PonniBala, Associate Professor Dr. K. Prabhu, Associate Professor		
2	Department	EIE		
3	Title of the Grant with Ref. No. and Date	AICTE ATAL FDP on "Edge Computing Technologies for Smart Factory Automation and Industry 4.0" F.No. 01 - App No. 1614071785/AICTE/ATAL-HQ/2021-22/535 Date: 20.07.2021		
4	Nature of Programme	R&D/Seminar/Symposium/Workshop/FDP/ Others (Pls Specify) ATL FDP		
5	Name of the Funding Agency	AICTE		
6	Date of Function / Event	16.08.2021 to 20.08.2021		
7	Programme approval No. & Date & Amount (Approved by Principal / Correspondent / Secretary)	KEC/SES/EIR/ 2021-2022/07/0011 28.07.2021, Rs. 93000/-		
8	Total Grant Sanctioned (copy to be enclosed)	Rs. 93,000/-		
9	Income from other sources (Registration Fee, Sponsor etc.,)	Rs. Nil		
10	Total Expenses	Rs. 93,000/-		
11	Advance Amount Received & Date	Rs. 10,000/- 24.08.2021		
12	Balance Amount Claimed	Rs. 83,000/-		
13	Balance Amount Remitted	Rs. -		
14	Receipt No. & Date	-		
15	Details of Amount Received from Funding Agency (copy to be enclosed)	1 st Installment / Date	2 nd Installment / Date	3 rd Installment / Date
		Rs. 93,000/- 10.08.2021	-	-

MPH
01/09/21
Signature

hch
21/9/21
HOD

Shan
4/9/21
R&D
Co-Ordinator

REGISTRAR

PRINCIPAL

13/03/9

KONGU ENGINEERING COLLEGE, PERUNDURAI, ERODE-638060
DEPARTMENT OF EIE

Note submitted to the Principal

04.09.2021

Subject: Submission of bill settlement and Requisition to sanction the expenditure for ATAL-FDP programme reg.

The Department of Electronics and Instrumentation Engineering, Kongu Engineering College, Perundurai, Erode organized Five Days (16.08.2021 to 20.08.2021) FDP on "Edge Computing Technologies for Smart Factory Automation and Industry 4.0" (conducted through Online) sponsored by AICTE Training and Learning (ATAL) Academy 2021 with sponsored fund of Rs.93,000/- (20.07.2021). In this regard, it is proposed to purchase the following components under the head of miscellaneous and was sanctioned. Additionally, a web camera of Rs. 829.00 is purchased under the same head of miscellaneous (**Rs.10,000/-**). Hence, the total expenditure is within the proposed amount, Kindly approve the same.

S.No.	Name of the equipments proposed	Amount (Rs.)
1.	Zebtronics Zeb-200HM Headphone with Mic, Dual 3.5mm Connectors, Adjustable Headband & Mic, for PC Computers /Laptop (3 quantities x Rs.620.00)	1860.00
2.	XP-Pen Deco01 V2 Digital Graphics Drawing Pen Tablet (10" x 6.25", 8192 Levels of Pressure Sensitivity, Battery-Free Passive Stylus, Black)	6,926.00
3.	Stationaries (Pen, Batteries, etc.)	385.00
S.No.	Name of the equipments added	Amount (Rs.)
1.	Zebtronics Zeb-Crystal Clear Web Camera with 3P Lens,Built-in Microphone, Auto White Balance,Night Vision and Manual Switch for LED (Black)	829.00
Total		10,000.00

Thank you

With warm regards,

[Signature]
 Dr. S.Vijayachitra

[Handwritten Signature]
 6.9.21

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)
ACCOUNTS STATEMENT

04.09.2021

S.No	Description	Bill No.	Date	Amount (Rs).
Honorarium for Coordinator				
1.	Honorarium for Coordinator	Dr.S.Vijayachitra	20.08.2021	10,000.00
			Total	10,000.00
Honorarium for Computer Operator				
1.	Honorarium for Computer Operator	Dr.K.Prabhu	31.08.2021	2,000.00
			Total	2,000.00
Honorarium for Experts				
1.	Honorarium for Experts	Dr. N. Arunachalam	20.08.2021	5,000.00
2.		Dr. L.Ashok Kumar	20.08.2021	5,000.00
3.		Mr. R. Mohammed Ghouse	20.08.2021	5,000.00
4.		Ms.Y.Uma Maheshwari	20.08.2021	5,000.00
5.		Dr. I.A. Palani	20.08.2021	5,000.00
6.		Mr.S.Senthil	20.08.2021	5,000.00
7.		Mr. Puviarasan Maduraipandiyan	20.08.2021	5,000.00
8.		Dr.M.Ponni Bala	18.08.2021	5,000.00
9.		Mr. N. Arumuga Perumal	19.08.2021	5,000.00
10.		Dr. I. Thirunavukkarasu	01.09.2021	5,000.00
11.		Mr. Dileepan G S	20.08.2021	5,000.00
12.		Dr.S.Vijayachitra	19.08.2021	5,000.00
13.		Mr.R.N.Balasubramaniam	20.08.2021	5,000.00
14.		Mr.Siva Subramanian	20.08.2021	5,000.00
			Total	70,000.00
Provision for payment to Lab Attendant				
1.	Provision for payment to Lab Attendant	Mr.S.Maheswaran	20.08.2021	1,000.00
			Total	1,000.00
Miscellaneous				
1.	Head phone with Mic (3 quantities x Rs.620.00)	MAA4-2984 TN-MAA4-147274261-2122	24.08.2021	1860.00
2.	XP-Pen Deco01 V2 Digital Graphics Drawing Pen Tablet	MAA4-2273201 TN-MAA4-1034-2122	25.08.2021	6,926.00
3.	Zeb-Crystal Clear Web Camera with 3P Lens,Built-in Microphone	MAA4-2273201 TN-MAA4-1034-2122	25.08.2021	829.00
4.	Stationeries (Pen, Batteries, etc.)	1564	16.08.2021	385.00
			Total	10,000.00
GRANT TOTAL				93,000.00
	Amount sanctioned from AICTE-ATAL (F.No.01.App No.1614071785/AICTE/ATAL-HQ/2021-22/535 Date:20 th July, 2021)			93,000.00
	Advance amount received from Office (Date:24.08.2021)			10,000.00
	Amount to be claimed from office			83,000.00
	Amount to be claimed from AICTE-ATAL			NIL

Kibon
4/9/21
Coordinators

AT 9/2021
HOD(EIE)