



# EXCEL ENGINEERING COLLEGE

(Autonomous)

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai  
Accredited by NBA, NAAC with "A" and Recognised by UGC (2f & 12B)

KOMARAPALAYAM - 637303

## Department of Aeronautical Engineering

### Research Project

Academic Year 2020-2021

Sl. No.	Name of the Staff	Title of the project	Funding Agency	Grant Sanctioned in Rs.	Year	Status	F.No.
1	Dr.P.Karunakaran	Online FDP on Global Challenges in Sustainable Manufacturing using 3D Printing and Design 19.10.2020 to 23.10.2020 (5 Days)	AICTE ATAL FDP	93,000/-	2020-21	Completed	1
2	Dr.P.Karunakaran	International Conference on Materials, Manufacturing, Robotic Automation, Artificial Intelligence and Networking for Industry 5.0	AICTE GOC	1,66,667/- (Only 50,000/- utilized for online mode)	2020-21	Completed	2
Total Sanctioned				Rs.2,59,667/-			
Total Utilized				Rs.1,43,000/-			



*[Signature]*  
HOD/Aero.





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KOMARAPALAYAM - 637303

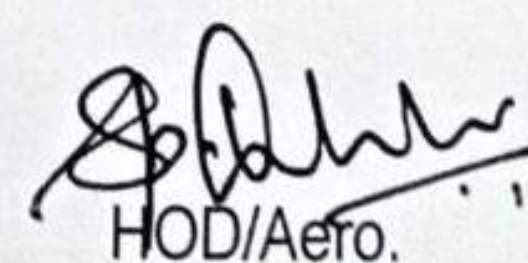
Department of Aeronautical Engineering

AICTE ATAL sponsored 5 days National level online FDP  
on

"Global Challenges in Sustainable Manufacturing using 3D Printing and Design"

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HOD/Aero.

HOD / AERONAUTICAL ENGINEERING  
EXCEL ENGINEERING COLLEGE,  
KOMARAPALAYAM - 637303.





**All 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](http://www.aicte-india.org)



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

F. No. 01-App No.1584172413/AICTE/ATAL-HQ/2020-21/659

Date: 5th October, 2020

To  
The Principal  
Excel Engg. College  
NH-544, Salem Main Road,  
Pallakapalayam, Sankari West Post,  
Komarapalayam,  
Namakkal 637 303  
TAMIL NADU

RKD ilc  
Dr. Karunakaran  
Dr. Sankaranarayanan  
a. b. c.

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

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 [3D Printing & Design]** from **19.10.2020 to 23.10.2020** to (Excel Engg. College, NH-544, Salem Main Road, Pallakapalayam, Sankari West Post, Komarapalayam, Namakkal, TAMIL NADU) 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 Director	Rs.	10,000/-
2.	Honorarium to Co-ordinator Rs.2000/- per day x 5 days	Rs.	10,000/-
3.	Honorarium for experts ( <i>Rs.3000 per session for total 14 session</i> )	Rs.	42,000/-
4.	Provision for payment to Lab Attendant engaged during lab practices	Rs.	1000/-
5.	Institutional charges	Rs.	15,000/-
6.	Miscellaneous charges	Rs.	15,000/-
<b>TOTAL:</b>		<b>Rs.</b>	<b>93,000/-</b>

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.





# Excel<sup>®</sup> ENGINEERING COLLEGE

(AUTONOMOUS)

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NH-544, Komarapalayam Tk., Namakkal Dt., TN. [www.excelinstitutions.com](http://www.excelinstitutions.com)

Accredited by NBA & NAAC with "A+" Grade



Department of Aeronautical Engineering  
and



## AICTE TRAINING & LEARNING (ATAL) ACADEMY

Jointly organize

Online Faculty Development Programme on

### GLOBAL CHALLENGES IN SUSTAINABLE MANUFACTURING USING 3D PRINTING & DESIGN

19.10.2020  
to  
23.10.2020  
(5 Days)

#### Registration:

NO REGISTRATION FEE' for participants.  
Interested participants can register through following  
links: <https://forms.gle/Af36XFbgc1hqpzjZA>  
<https://atalacademy.aicte-india.org/login>

#### Important Dates:

Last date for registration: 15.10.2020  
Selection mail will be sent on or before 16.10.2020

#### Contact for Queries:

Dr. P. Karunakaran  
Mobile: 9865198660, 9791577306  
E-mail: [pkarunakaran.eec@excelcolleges.com](mailto:pkarunakaran.eec@excelcolleges.com)

Scan  
here for  
registration



Excel



ATAL



Certificate will be  
issued by  
**AICTE - ATAL**



A+ Grade (3.26)



B.E. - AERO. MECH. CSE. ECE





## REGISTRATION

There is 'NO REGISTRATION FEE' for participants.  
Certificate will be issued by AICTE ATAL

Participants interested to attend this program should register online in the below mentioned links:  
<https://forms.gle/Af36XFbgc1hqzjZA>  
<https://atalacademy.aicte-india.org/login>

Participants will be short listed based on First-cum-First Serve from Government / Government Aided / Self-Financing Engineering Colleges / Polytechnic Colleges in Tamilnadu.  
All corresponding communication should be made to the Coordinator.

## IMPORTANT DATES

Last date for registration: **15.10.2020**  
Selected participants will be informed through email.  
Selection mail will be sent on or before **16.10.2020**

**SCAN HERE FOR REGISTRATION**



Excel



ATAL

**FOR QUERIES CONTACT:**

**Dr. P. Karunakaran**

Mobile: 9865198660, 9791577306  
[pkarunakaran.eec@excelcolleges.com](mailto:pkarunakaran.eec@excelcolleges.com)  
[pdeepakkumar.eec@excelcolleges.com](mailto:pdeepakkumar.eec@excelcolleges.com)

## ORGANIZING COMMITTEE

### Chief Patron

**Prof. Dr. A.K. Natesan**  
Hon. Chairman, Excel Group Institutions

**Dr. N. Mathan Karthick**  
Vice-Chairman, Excel Group Institutions

### Patrons

**Dr. K. Bommanna Raja**  
Principal, Excel Engineering College  
Executive Director, Excel Technical Campus

**Dr. D. Devakumar**  
Director, IRRP  
Excel Group Institutions

### Conveners

**Dr. R. Nallusamy**  
Director (Administration), Excel Engineering College

**Dr. S.P. Venkatesan**  
Professor & Head, Aeronautical

### Programme Coordinator

**Dr. P. Karunakaran**  
Professor / Aeronautical

### Co-Coordiators

**Prof. A. Karthikeyan** / Aeronautical  
**Prof. N. Sreenivasaraja** / Aeronautical  
**Prof. G. Velmurugan** / Aeronautical  
**Prof. P. Deepakkumar** / Aeronautical  
**Prof. T. Muthumari** / Aeronautical  
**Prof. M. Kanimozhi** / Aeronautical

AICTE Training & Learning (ATAL) Academy  
Sponsored

Online One Week  
Faculty Development Program on  
**Global Challenges in Sustainable  
Manufacturing using  
"3D Printing and Design"**

**19.10.2020 to 23.10.2020  
(5 Days)**



Organized by  
Department of Aeronautical Engineering

**Excel**  
**ENGINEERING COLLEGE**  
(AUTONOMOUS)

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NH-544, Komarapalayam Tk., Namakkal Dt., TN.  
[www.excelinstitutions.com](http://www.excelinstitutions.com)





### ABOUT THE AICTE TRAINING AND LEARNING (ATAL) ACADEMY PROGRAMMES

All India Council for Technical Education established the country's first AICTE Training and Learning Academy at Jaipur, Rajasthan in the last February, 2019. Moreover, three more ATAL academies at Vadodara, Thiruvananthapuram and Guwahati have been established to cater to fulfill the training needs of Faculty members those who are engaging in teaching domain under the roof of AICTE. These academics will provide upgraded teaching methods and modules to make technical education more effective and accountable.

### ABOUT THE COLLEGE

Excel Engineering College (Autonomous) offers 11 UG programs, 6 P.G. programs and 3 Ph.D. programs. The college is approved by AICTE, New Delhi, Permanently Affiliated to Anna University, Chennai, and Accredited by NAAC with A+ grade. The College is dedicated to serving the nation by producing young, dynamic, energetic and far sighted industrious engineers.

### ABOUT THE DEPARTMENT

The Department of Aeronautical Engineering was started in 2007. The Department is accredited by NBA. It has Centre of Excellence in CAD and Composite Materials, good infrastructure facilities with well-experienced and dedicated team of faculty members. The students secured 10 Anna University ranks. Hands on training given to the students using MIG 21, MIG 23, DC 2, Cessna Aircrafts, Aircraft Simulators, Design software and Drones. The Department has signed MoU with various industries and 13 patents have been applied.

### PROGRAM CONTENTS

- CAD for Additive Manufacturing
- 3D Printing & Additive Manufacturing-An Overview
- Stereo lithography File format and its salient features STL file processing technique
- Stereo lithography & Laminated Object Manufacturing
- Selective Laser Sintering (SLS) & Selective Laser Melting (SLM)
- Real-Time Applications of 3D Printing Technologies
- Materials used in Additive Manufacturing - Polymers and Metals
- Materials used in Additive Manufacturing - Non - Metals and Ceramics
- Dynamic Challenges and Opportunities in Additive Manufacturing
- Bird view on Commercially available Additive Manufacturing Equipments in the market
- Inspection and Testing techniques adopted in Additive Manufacturing Process
- Applications of 3D printing in Nano Technology

### RESOURCE PERSONS

**Dr. Rajesh Renganathan**  
Professor, Centre of Excellence for Manufacturing Science (COE)  
Coimbatore Institute of Technology, Coimbatore.

**Sri. K. Sridhar**, Sr. Manager, PSG TIFAC and CORE, Coimbatore

**Dr. S. Vinoth**, Associate Professor in Production Engineering,  
National Institute of Technology, Tiruchirappalli

**Dr. T. Sekar**, Associate Professor  
Government College of Technology, Coimbatore

**Dr. P. Suresh**, Professor and Head / Mechatronics,  
Sona College of Technology, Salem

**Sri. S. Naresh Babu & Sri. S. Elankumaran**  
Industrialist, M/s. Rapid 3D Technologies, Coimbatore

**Dr. Y. Ravi Kumar**, Asso. Professor, Dept. of Mechanical Engg.  
National Institute of Technology Warangal (NITW),  
Warangal-506 004

**Sri. Mohammed Basheer & Sri. Joseph Mathew**  
Managing Directors, INSTA 3D Technologies, Coimbatore

**Dr. N. Nandakumar**, Associate Professor  
Government College of Technology, Coimbatore

**Dr. K. Prabu**, Managing Director, The Creator Industries, Erode

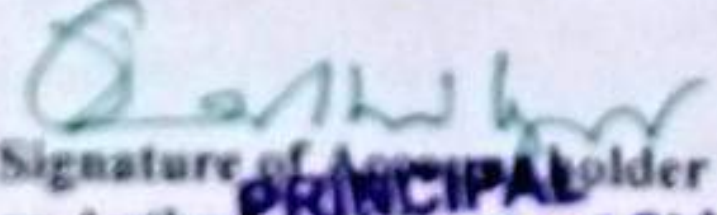
**Dr. S. Periyasamy**, Assistant Professor (S.G)  
Government College of Technology, Coimbatore



**ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**  
Nelson Mandela Marg, Vasant Kunj, New Delhi-110079  
**Mandate Form (For Institutes /Colleges/Society/Trust)**

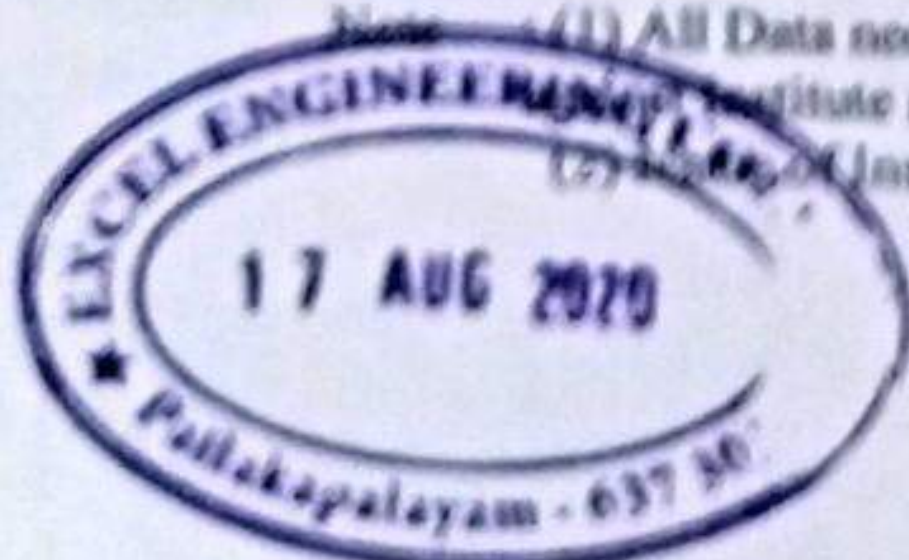
Status	Affiliated College (Anna University, Chennai)		
Name of the Institute	Excel Engineering College		
ID/PID of the Institute	1-8213921		
Head of the Institute (Tick one)	Director / Registrar / <u>Principal</u> / _____		
Name of the Head of the Institute	Dr.C.Karthikeyini		
Telephone No. and E-mail ID of the Head of the Institute	principaleec@excelcolleges.com		
Address of Communication	NH-544, Salem Main Road, Pallakapalayam, Sankari West Post, Komarapalayam, Namakkal District		
State	Tamil Nadu	PIN	637303
Name of the Trust/Society/Company	Sri Rengaswamy Educational Trust		
Name of contact person of the Trust/Society/Company with Mobile No. & E-mail ID	Dr.C.Karthikeyini 9965641888 principaleec@excelcolleges.com		
PAN of the Institute/Society /Trust/Company (enclosed the copy)	AAETS0831R		
Name of Bank where RTGS amount to be sent	Axis Bank		
Branch Name	Mettunasuvampalayam	Br. Code	1449
Address of the Bank	KSP Mahal, Door No. 5/491,492, Kalingarayanpalayam Pudur, Mettunasuvampalayam, Erode District		
State	Tamil Nadu	PIN	638301
Telephone No of the Bank	0424 - 2230995		
Name of the A/c holder	Excel Engineering College		
Account Type (Tick one)	<u>Saving a/c</u> <input checked="" type="checkbox"/> Saving Bank / <del>Current Account</del>		
Account Number (Full)	910010019166442		
Banker's IFSC Code	UTIB0001449		

It is declared that all information we have provided are true in all respect.

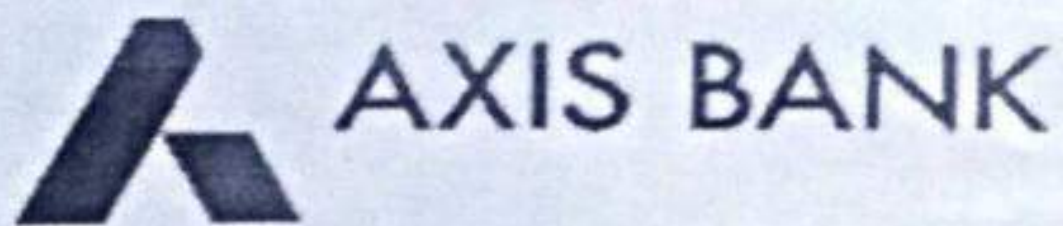
  
Signature of Principal holder  
or Authorised Signatory  
**PRINCIPAL**  
**EXCEL ENGINEERING COLLEGE**  
Date 19/08/2020  
Place Komarapalayam

  
G.A. SATHISH  
Banker's Signature and Seal  
S.S. No. 15143  
Operations Head

Note: (1) All Data needs to be filled mandatorily for facilitating RTGS transfer of the amount  
(2) Name of Institute and Name of Account holder should be same for remitting RTGS.





**EXCEL ENGINEERING COLLEGE**

Joint Holder :-

68J K K SUNDARAM NAGAR KOMARAPALAYAM  
NAMAKKALTAMIL NADU-INDIA  
638183

Customer No :834501637

Scheme :SB-TRUST/SOCIETY/NGO/GOVT

Currency :INR

Statement of Axis Account No :910010019166442 for the period (From : 19-10-2020 To : 19-10-2020)

Tran Date	Chq No	Particulars	Debit	Credit	Balance	Init. Br
		<b>OPENING BALANCE</b>			<b>228998.43</b>	
19-10-2020		NEFT/N293201280706246/BIHAR STATE EDU FIN CORP L		100000.00	328998.43	248
19-10-2020		NEFT/N293201280711024/BIHAR STATE EDU FIN CORP L		100000.00	428998.43	248
19-10-2020		NEFT/SBIN920293919593/Member Secretary SRC OF AIC		93000.00 ✓	521998.43	248
		<b>TRANSACTION TOTAL</b>	.00	293000.00		
		<b>CLOSING BALANCE</b>			<b>521998.43</b>	

Unless the constituent notifies the bank immediately of any discrepancy found by him/her in this statement of Account, it will be taken that he/she has found the account correct.

The closing balance as shown/displayed includes not only the credit balance and / or overdraft limit, but also funds which are under clearing. It excludes the amount marked as lien, if any. Hence the closing balance displayed may not be the effective available balance. For any further clarifications, please contact the Branch.

We would like to reiterate that, as a policy, Axis Bank does not ask you to part with/disclose/revalidate of your iConnect passord, login id and debit card number through emails OR phone call Further, we would like to reiterate that Axis Bank shall not be liable for any losses arising from you sharing/disclosing of your login id, password and debit card number to anyone. Please co-operate by forwarding all such suspicious/spam emails, if received by you, to customer.service@axisbank.com

With effect from 1st August 2016, the replacement charges for Debit card and ATM card applicable on Current accounts have been revised. To know more about the applicable charges, please visit [www.axisbank.com](http://www.axisbank.com)

REGISTERED OFFICE - AXIS BANK LTD, TRISHUL, Opp. Samartheshwar Temple, Near Law Garden, Ellisbridge, Ahmedabad .  
380006. This is a system generated output and requires no signature.

**ends :**

- ICONN-Transaction through Internet Banking
- VMT-ICON-Visa Money Transfer through Internet Banking
- AUTOSWEEP-Transfer to linked fixed deposit
- REV SWEEP-Interest on Linked fixed Deposit
- SWEEP TRF-Transfer from Linked Fixed Deposit / Account
- VMT-Visa Money Transfer through ATM
- CWDR-Cash Withdrawal through ATM
- PUR-POS purchase
- TIP/ SCG-Surcharge on usage of debit card at pumps/railway ticket purchase or hotel tips
- RATE.DIFF-Difference in rates on usage of card internationally
- CLG-Cheque Clearing Transaction
- EDC-Credit transaction through EDC Machine
- SETU -Seamless electronic fund transfer through AXIS Bank
- Int.pd-Interest paid to customer
- Int.Coll-Interest collected from the customer

++++ End of Statement +++++





# EXCÊL ENGINEERING COLLEGE

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Sponsored by SRET - Sri Rengaswamy Educational Trust, Komarapalayam

Ref: EEC/Aero./ATAL FDP/UC&SOE Sub/01

Date: 24.12.2020

To

M. Sundaresan  
Regional Officer  
Southern Regional Office  
All India Council for Technical Education (AICTE)  
Shastri Bhavan, 26 Haddows Road,  
Nungambakkam, Chennai 600 006.  
Landline No. : 044-28275650, 28279998

Sir

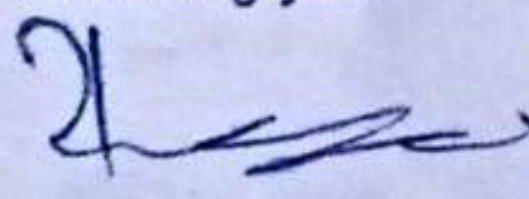
Sub: Submission of Audited Utilization Certificate & Statement of Expenditure-Reg.

Ref: AICTE File No. : F. No. 01 - App No. 1584172413 / AICTE-HQ / 2020-21 / 659, Dated: 05.10.2020

Herewith we enclosed the Audited Utilization Certificate and Statement of Expenditure as per your request for the online ATAL FDP.

Dates of the Programme : 19.10.2020 to 23.10.2020 (5-Days)  
Name of Co-ordinator : Dr.P.Karunakaran, Professor, Excel Engineering College  
Title of the ATAL Programme : Global Challenges in Sustainable Manufacturing using  
3D Printing and Design

Thanking you.

 24/12/2020

Yours truly

Dr.P.Karunakaran

Coordinator-ATAL online FDP

NH-544, Salem Main Road, Pallakapalayam, Sankari West Post, Komarapalayam Taluk,  
Namakkal District - 637303, Tamil Nadu, INDIA, Mobile: +91 99656 41888, Tel: +91 4288 227361 to 68,  
E-mail: principaleec@excelcolleges.com, Web: www.excelinstitutions.com

**Excellence in Professional Education**



NAME & ADDRESS OF THE INSTITUTE: Excel Engineering College,  
Komarapalayam, Namakkal District, Tamil Nadu - 637303

**UTILIZATION CERTIFICATE FOR THE FINANCIAL YEAR 2020-20**

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

AICTE File No. : F. No. 01 - App No. 1584172413 / AICTE-HQ / 2020-21 / 659, Dated: 05.10.2020  
Name of Co-ordinator : Dr.P.Karunakaran  
Dates of the Programme : 19.10.2020 to 23.10.2020 (5-Days)  
Title of the ATAL Programme : Global Challenges in Sustainable Manufacturing using  
3D Printing and Design

Sl. No.	AICTE Sanction Order/Letter No. & Date under which grant was sanctioned	Amount (Rs.)	
1.	F. No. 01 - App No. 1584172413 / AICTE-HQ / 2020-21 / 659,  Date: 05.10.2020	93,000/-	Certified that out of the grant-in-aid of <b>Rs.93,000/-</b> (Ninety three thousand) sanctioned by the AICTE during the financial year <b>2020-21</b> in favour of <b>Excel Engineering College</b> as per letter mentioned in the margin, <b>Rs. 0/-</b> on account of unspent balance of previous year, <b>Rs. 0/-</b> on account of other income / receipts, a sum of <b>Rs.93,000/-</b> has been utilized for the purpose for which it was sanctioned and the balance of <b>Rs. 0/-</b> 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.

**Kinds of checks exercised: -**

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

(1). Name, Signature & Address of the Coordinator with seal:  
Dr.P.Karunakaran,  
Professor, Department of Aeronautical Engineering,  
Excel Engineering College, Komarapalayam, Namakkal District, Tamil Nadu - 637303

2). Signature of Chartered Accountant:  
Name of Chartered Accountant:  
M. N. Palanisamy  
Membership No: 203843  
Rubber stamp: For **SELVARAJ & PALANISAMY**  
CHARTERED ACCOUNTANTS

Full Address:  
Komarapalayam,  
Namakkal Dt, TN.  
Date: 04.11.2020

(3). Signature of Head of the Institute:  
Name & Designation of the Head of Institute:  
Dr.K.Bommanna Raja, Principal  
PRINCIPAL  
EXCEL ENGINEERING COLLEGE  
KOMARAPALAYAM.

Full Address:  
Excel Engineering College, Komarapalayam,  
Namakkal District, Tamil Nadu - 637303  
Date: 04.11.2020

(4). 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 annexure



# AICTE Training And Learning(ATAL) Academy Programme

## FORMAT FOR STATEMENT OF EXPENDITURE

AICTE File No.(As in Sanction Order/Letter) : F. No. 01 - App No. 1584172413 / AICTE-HQ / 2020-21 / 659, Dated: 05.10.2020

Title of the Programme : Global Challenges in Sustainable Manufacturing using 3D Printing and Design

Name of the Coordinator : Dr.P.Karunakaran

Sanction No. and Date	Grant Sanctioned	Details of expenditure Incurred Itemwise	Amount Rs. (in each head)	No. of Participants	Duration of the Programme (with dates)
F. No. 01- App No. 1584172413 / AICTE-HQ / 2020-21 / 659 Date: 05.10.2020	Rs. 93,000/-	1. Honorarium for Director/Vice-chancellor/Head of Institution.	Rs. 10,000/-	147	19.10.2020 to 23.10.2020 (5-Days)
		2. Honorarium to Coordinator Rs.2000/- per day x 5 days	Rs. 10,000/-		
		3. Honorarium for experts (Rs.3000 per session for total 14 session).	Rs. 42,000/-		
		4. Institutional charges	Rs. 15,000/-		
		5. Miscellaneous charges	Rs. 15,000/-		
		6. Provision for payment of Lab Attendant	Rs. 01,000/-		
		Total	Rs. 93,000/-		
		Grant Received	Rs. 93,000/-		
		Balance to be Received	Rs. 0/-		

(1)

Dr.P.Karunakaran  
Name and Signature of Coordinator with Seal

(2)

Dr.K.Bommanna Raja  
Name and Signature of Head of Institution with Seal  
EXCEL ENGINEERING COLLEGE  
KOMARAPALAYAM.

(3)

Signature (with Seal) of the Finance Officer/  
Auditor/Accounts Officer  
(If it is Govt./Govt. Aided Institute)

(4)

Signature of Chartered Accountant:  
Name of Chartered Accountant: M.N. Palanisamy  
Membership No: 203843  
Rubber stamp:

S. SELVARAJ & PALANISAMY  
CHARTERED ACCOUNTANTS

Full Address:

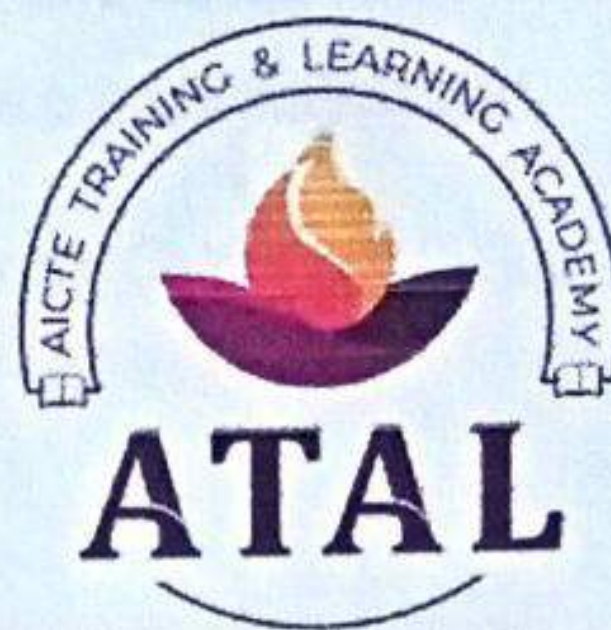
Komarapalayam  
Namakkal Dt, TN

Date: 04.11.2020

M.N. PALANISAMY  
M.No: 203843  
PARTNER

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





## AICTE Training And Learning (ATAL) Academy

**Sponsored**

Online Faculty Development Programme (FDP)  
on

**"Global Challenges in Sustainable Manufacturing using 3D Printing and Design"**

19.10.2020 to 23.10.2020 (5 days)

## REPORT

**Organized by**



**Excel Engineering College**  
(Autonomous)

**Department of Aeronautical Engineering**





# Global Challenges in Sustainable Manufacturing using 3D Printing and Design

The AICTE Training And Learning (ATAL) Academy sponsored 5-Days online Faculty Development Programme on "Global Challenges in Sustainable Manufacturing using 3D Printing and Design" was conducted from 19.10.2020 to 19.10.2020 in which around 140 participants from different parts of the country participated.

The speakers for the 5-days Faculty Development Programme on "Global Challenges in Sustainable Manufacturing using 3D Printing and Design" were:

## Dr. Y. Ravi Kumar

Associate Professor, Dept. of Mechanical Engineering, National Institute of Technology Warangal (NITW), Telangana State.



He obtained B.Tech. Degree in Mechanical Engineering from JNTU, Kakinada in 2009, M.E. in Computer Integrated Manufacturing (CIM) from PSG College of Technology, Coimbatore in 2002, Ph.D. in Mechanical Engineering from Osmania University, Hyderabad in 2011 and Post-doctoral research in 3D Printing at Milwaukee School of Engineering, USA in 2012. He has supervised more than 30 M.Tech. Projects and produced 4 Ph.D.'s and guiding 4 more Ph.D. theses. He has published more than 70 research papers in National and international conferences and journals. He has filed 1 International patent and 2 Indian patents in the area of 3D Printing. He is instrumental in setting up Rapid Prototyping laboratory at NIT Warangal. He started M.Tech. Program in Additive Manufacturing in collaboration with Central Manufacturing Technology Institute (CMTI) Bangalore, first time in India of its kind. He has established a world class "Metal 3D Printing Facility" at NIT Warangal under TEQIP-III grant. He has conducted more than 15 training programs across India and trained around 900 participants in the area of 3D Printing. He received "Young Engineer of the Year 2009 Award" from the Government of Andhra Pradesh and The Institute of Engineers (India). He has executed sponsored R&D Projects worth of 1.24 Crores Rupees in the area of 3D Printing. He is the Life Member of ISTE, IE and RPSI Societies. He visited countries like Australia, Sweden, Singapore, Finland, France and USA.

## Sri. Joseph Mathew

Managing Director,  
INSTA3D Technologies, Coimbatore.



### Education:

Bachelor of Engineering: 2009-2013

Discipline : Mechanical Engineering

Master of Engineering: 2013-2015

Discipline : Advanced Manufacturing Technology

### Experience:

Worked as Assistant Professor 2015 -2016

Karpagam College of Engineering

Worked with projects 2014-2015

Ford India Pvt Ltd,

Managing Director 2016 – Till Date

INSTA3D Technologies, Coimbatore



**Dr. D. Lavanya**  
Associate Professor,  
Govt. College of Engineering, Salem.



**Education:**

M.E., Ph.D. (Anna University)  
Mechanical Engineering

**Experience:**

Teaching: 11 Years  
Govt. College of Engineering, Salem.

**Sri. Mohammed Basheer**  
Managing Director,  
INSTA3D Technologies, Coimbatore.



**Education:**

Ph.D. Ongoing  
Research Area - 3D printing in biomedical application. bioprinting and synthesis raw material  
bio-composite material  
Master of Engineering 2013-2015  
Discipline :Advanced Manufacturing Technology  
Bachelor of Engineering 2009-2013  
Discipline :Mechanical Engineering

**Experience:**

Managing Director 2016 - Current  
INSTA3D Technologies  
Worked as Research and Development Engineer 2015 - 2016  
Tata Engineering and Industrial Services  
Worked with Projects 2013 - 2015  
General Motors,  
Bharath Petroleum and Apollo Tyres  
Experience Consultant Engineer 2013 - 2015  
Bramco Aluminium

**Dr. T. Sekar**  
Associate Professor, Government College of Technology, Coimbatore.



**Education :**

Anna University, Chennai  
Ph.D. in Mechanical Engineering, July, 2009.  
Annamalai University, Annamalai Nagar  
M.E. in Production Engineering (Gold Medal), November, 1999.  
PSG College of Technology, Coimbatore  
B.E. in Mechanical Engineering, April, 1997.

**Experience:**

Industry and Self-financing Engineering Colleges :3 Years  
Abroad Service at Ministry of Sultanate of Oman through Govt. of Tamil Nadu : 2 Years  
Government Engineering Colleges under Tamil Nadu Educational Services (TES) : 17  
Years



**Dr. Rajesh Renganathan**  
**Professor, Centre of Excellence for Manufacturing Science (COE)**  
**Coimbatore Institute of Technology, Coimbatore.**



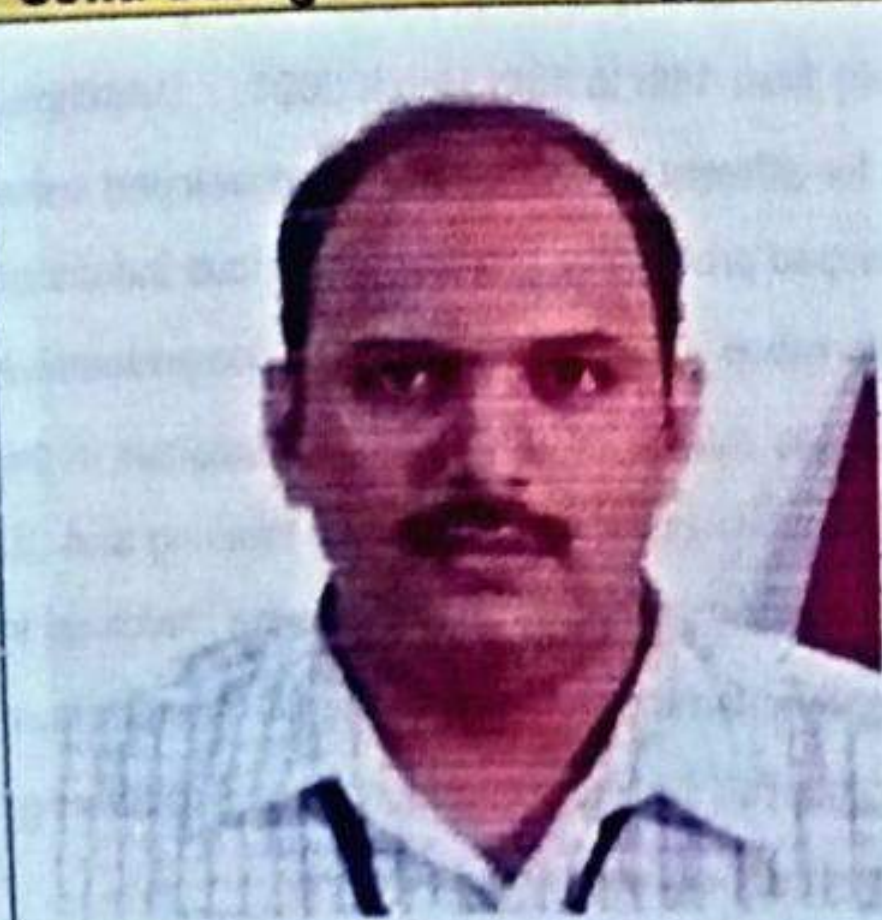
Dr. Rajesh Ranganathan is currently working as a Professor at Coimbatore Institute of Technology, Coimbatore, India. Working at CIT, he lectures modules in Supply Chain Management and Rapid Manufacturing / Additive Manufacturing. He heads the Advanced Integrated Manufacturing & Management Research Group (AIMMRG) at CIT, and Director for "Centre of Excellence in Manufacturing Sciences" only center in India funded by Ministry of Human Resource and Development, Government of India.

Dr Rajesh is undergoing research work and consultancy in terms of integrating manufacturing engineering and health care technologies. As an outcome of integration and upon establishing a research centre, he holds projects accounting close to 4 crores. Dr Rajesh for his outstanding work on diabetic foot management, received an "Young Scientist Award" from Department of Science and Technology, Government of India. He holds 6 patents, 42 journal publications, 1 book with Amazon US, holding its copy rights.

He has guided 10 PhD's and guiding 6 PhD scholars along with 2 research associates working in various research projects. He as well guided international PhD scholars. The outcome of undergone research were couple of new products in healthcare finding its novel applications to its enduser, providing benefit to the society. Patents were filed for the developed products. Undergoing research in healthcare engineering involved in developing products for healthcare industry like diabetic foot care product, surgical aids for pin hole surgery, orthotic devices for club foot and aids towards customization of food products for diabetic patients. Dr Rajesh Ranganathan works closes with diabetologists, orthopedicians, surgeons, dentists and food product developing research institutes. Along with core research in new product development for healthcare, also started with consultancy based work with local hospitals and with some of the national and World class manufacturing industries concentrating on product development adopting AM technologies.

Working in the area of Supply Chain, Dr. Rajesh holds work experience as a knowledge transfer partnership associate working for oil & gas industry in Aberdeen, Scotland, UK. Working as a consultant, Dr Rajesh was also associated with University of Aberdeen, UK as a "Knowledge Transfer Partnership Associate", where he was bridging the gap between industry and academics. Prior to his career in oil & gas, Dr Rajesh worked with National Health Service UK and with a leading health care industry in Europe in the areas of strategic planning, technological forecasting, inventory reduction, product customization and manufacturing lead time reduction. Dr Rajesh obtained his doctoral degree in Additive Manufacturing, from Loughborough University, England, UK. During his PhD, he was with the World's leading research group "Rapid Manufacturing Research Group".

**Dr.P.Suresh**  
**Professor,**  
**Sona College of Technology, Salem.**



**Experience:**

Degree	Institution	University/ Board	Year of Passing
Ph.D	Anna University	Anna	2015
M.E. (CAD)	Govt. College of Engineering, Salem	Madras	April 1998
B. E.	Institute of Road & Transport Tech., Erode	Bharathiar University	April 1996

**Experience:**

Sona College of Technology : 18 years



**Dr. S. Vinoth**  
Associate Professor,  
National Institute of Technology (NIT), Trichy.



Course	Institution	University	Year of Completion
Ph.D. (Mechanical Engineering)	PSG College of Technology, Coimbatore	Anna University, Chennai	February 2009
M.E (Production Engineering)	PSG College of Technology, Coimbatore	Anna University, Chennai	June 2006
B.E (Mechanical Engineering)	Government College of Technology, Coimbatore	Bharathiar University, Coimbatore	May 2004

**Experience:**

Associate Professor, Department of Production Engineering, NIT, Tiruchirappalli, March 2018 till date.

Assistant Professor, Department of Production Engineering, NIT, Tiruchirappalli, November 2008 to March 2018.

AICTE-NDF Research Scholar, PSG College of Technology, Coimbatore, August 2006 to November 2008.

**Sri. Anand Kumar Mishra**  
Sr. Product Trainer, 3Dexter Education Pvt. Ltd., New Delhi.

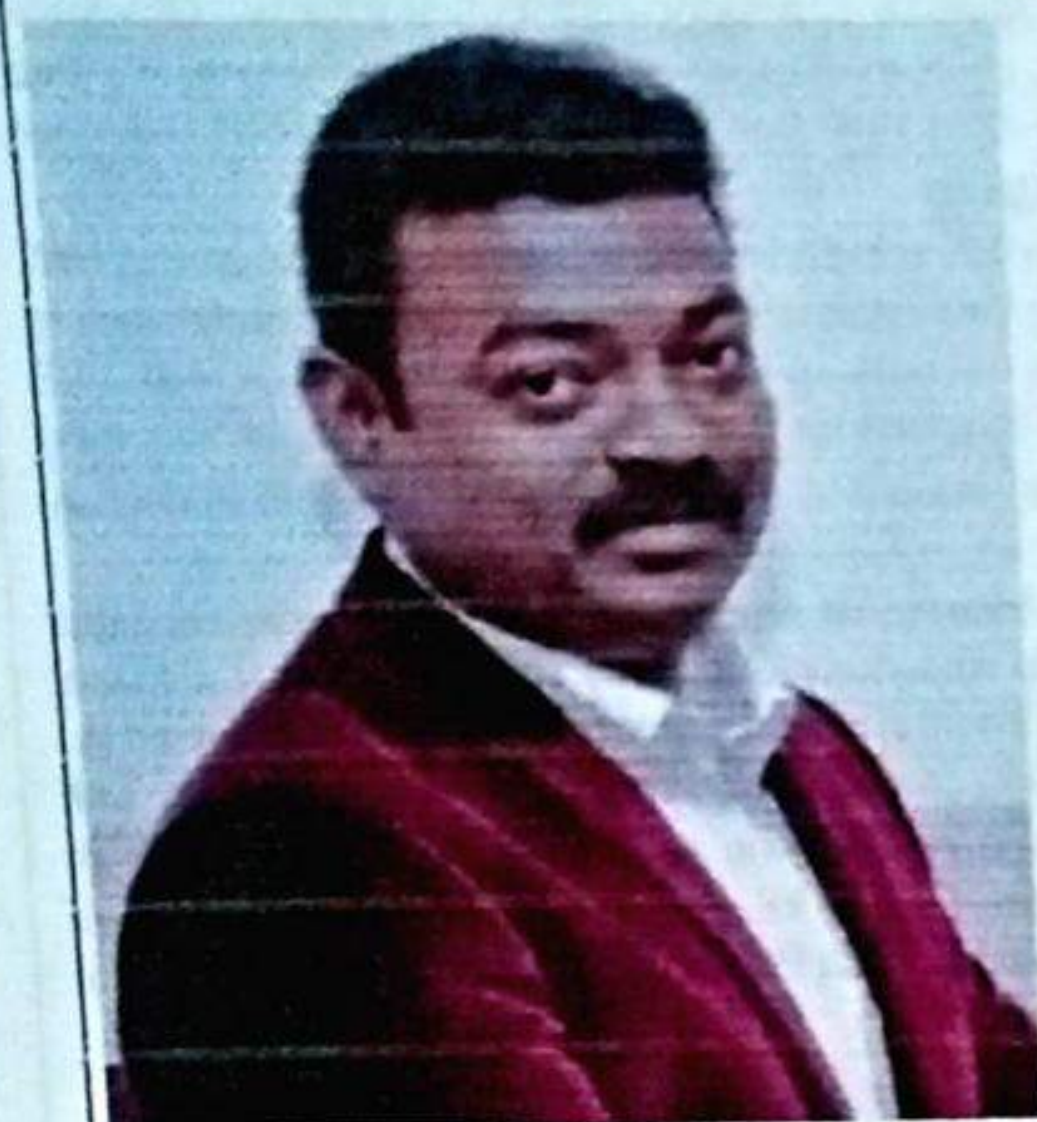


Experienced STEM Trainer for leading educational spaces responsible for taking up dedicated sessions. Presently associated with 3Dexter Education Pvt. Ltd as Senior Product Trainer • on 3D Designing and 3D Printing Experience in providing over 500+ technical workshops to educators, students and corporate on FDM• based 3D printers and Design Thinking to integrate designing and rapid prototyping Successfully implemented the 3 Day TEQIP sponsored STTP on "3D Printing and Design• Applications" for a student and faculty group of 45 members at Aditya College of Technology & Successfully wrapped up the training and installation services at Aditya Mechatronics in Noida and• Contributed to the curriculum development and testing of STEM projects •Science, Satna (Madhya Pradesh) from 14th to 16th March 2020. Developed various Robotics and Electronics content along with projects for different schools as well as•developed some projects for them for testing purposes. Designed and developed prototyping projects for various industries including custom made hand•industries Developed Workshop Content aimed at a comprehensive understanding of Designing•sanitizer dispensers and COVID face shields for healthcare professionals in the recent times. (SolidWorks/CATIA), 3D Printing (FDM Technology), Vacuum Casting, Wood Working and 3D Scanning (3D Systems) on integration concepts of Rapid Prototyping and Reverse Engineering Involved in the sales pitch of 3Dexter Bundle Packages• Worked on the manufacturing of FDM based 3D Printers from scratch to finished product • Educational Background Bachelor of Technology (Mechanical Engineering) (2011-15) Krupajal Engineering college (under Biju Patnaik University of Technology) , Odisha



**Dr. K. Prabu**

**Managing Director, Creator Industries, Erode.**



**Education**

B.E. -Mech. - Bharathiyar University

M.E -Engineering Design - Anna University Chennai

Ph.D. -Nano Lubricants Tribology- Karunya University Coimbatore

**Experience:**

S. No.	Institution	Designation	Experience	Years
1	The Creator Industries Erode	Chief Executive Officer	21.11.2018 to Till date	1 Years 4Months
2	Karunya University Coimbatore	Assistant Professor	01.06.2013 to 20.11.2018	5 Year 3 months
3	Park college of Engineering and Technology, Coimbatore.	Associate Professor	17.03.2010 to 31.06.2013	3 Years 4Months
4	Hindustan Institute of Technology, Coimbatore.	Assistant Professor	10.09.2009 to 16.03.2010	6 months
5	JKK Nataraja College of Engineering and Technology, Komarapalayam.	Assistant Professor and HOD	10.09.2009 to 10.09.209	1 Year
6	Excel Engineering College Komarapalayam-637 303.	Senior Lecturer	01.02.2008 to 30.09.2008	7months
7	DSM Info systems Pvt. Ltd., Chennai, India	CAD Engineer	01.06.2005 to 28.07.2006	1 Years 1Months
8	Sri Balaji Castings, Padi, Chennai.	Production in charge	03.09.2002 to 31.07.2004	1 Year 10Months
9	Public Works Department, Erode	Apprentice Trainee	31.08.2001 to 30.08.2002	1 Year
10	Sri Balaji Engineering, Padi, Chennai.	Production Engineer	03.07.2000 to 31.07.2001	1 Year



**Sri. K.Sridhar**  
**Senior Manager, PSG TIFAC and CORE, Coimbatore.INSTA3D Technologies, Coimbatore.**



E.Sreedhar kumar is Senior Manager in PSG TIFAC CORE in Product Design, PSG College of Technology. He is basically Post graduate in Industrial Chemistry from Bharathidhasan University, Trichy. He is having more than 32 years service in various industries and academic institutions. His area of interest is product design. He started his career with MRF Tyre division, Chennai as R&D Executive for four years and later he was in architectural designing. He was incharge for designing and production in a 100% export oriented Jewellery production unit M/s. Alapatt Exports, Kochi for 8 years. He was heading the Department of Jewellery Design & Technology (a collaborative project of JSS Mahavidyapeetha, Mysore & World Gold Council, UK) at JSS Mahavidyapeetha, Mysore and he was CEO for JSS Advanced Design & Technology Centre (a project developed under ASIDE Scheme of Govt of India) located at JSS Academy of Technical Education, Bangalore. He is in engineering product development for last 15 years. He also strongly involved in Technical Signs preparation (for teaching) for hearing impaired. He also involved in many research and development projects sponsored by various Govt organization to the level of Principal Investigator and also conducted many design oriented workshops for various crafts like Jewellery, wood carving, etc., in association with different organization. He was strongly involved in rehabilitation project of silver craft artisans in Belgaum region of Karnataka in association with Centre for Entrepreneurship Development of Karnataka, Govt of Karnataka. At present he is working with PSG Institutions as Senior Manager at PSG TIFAC CORE in Product Design.

**Dr. N.Nandakumar**  
**Associate Professor, Government College of Technology, Coimbatore.**



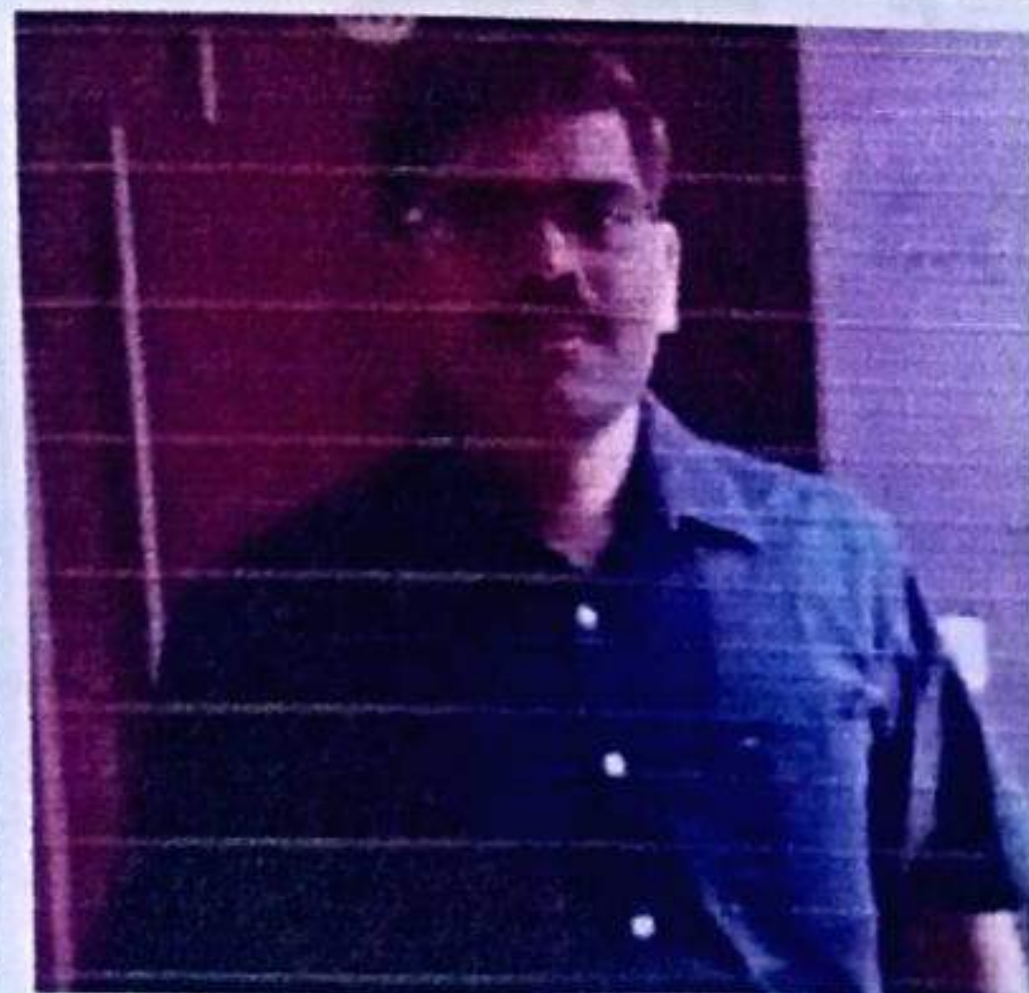
#### **Education**

BE -Mechanical Engineering  
 ME -Engineering Design  
 Ph.D. - Mechanical Engineering

#### **Experience**

20 years in Government College of Technology, Coimbatore

**Dr. S. Periyasamy**  
**Associate Professor, Government College of Technology, Coimbatore.**



#### **Education**

BE -Mechanical Engineering  
 ME -Engineering Design  
 Ph.D. - Mechanical Engineering

#### **Experience**

20 years in Government College of Technology, Coimbatore



**Sri. Rahul Verma**  
Head, Product Development, 3Dexter Education Pvt. Ltd., New Delhi.



**Education**

B.Tech (Tool Engineering) (2012-2016)  
Delhi Institute of Tool Engineering (IP University)

**Experience**

12 years in 3Dexter Education Pvt. Ltd., New Delhi.

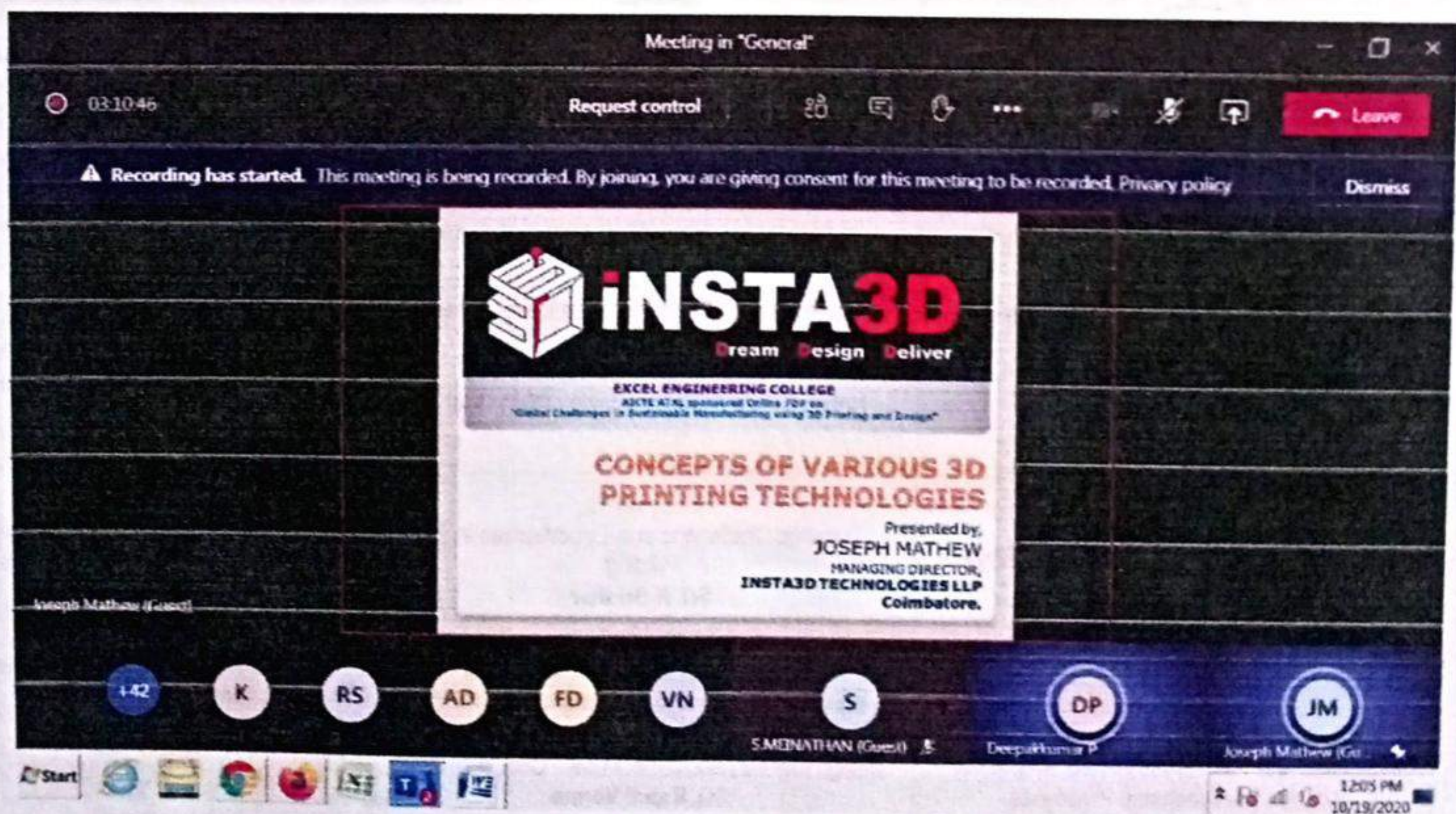
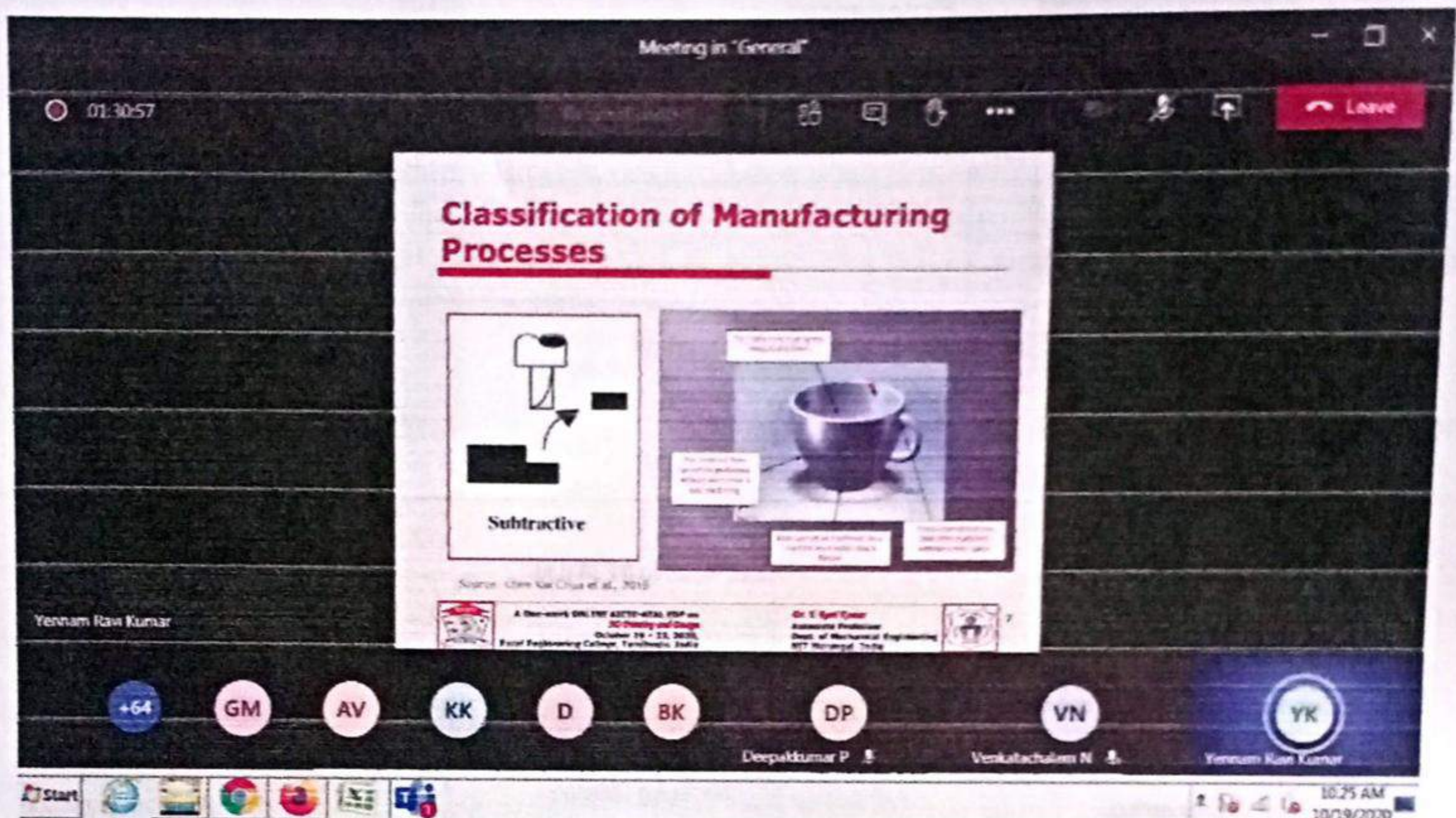
The schedule of the FDP was as below-

Date Time	10.00 a.m. to 11.30 a.m.	12.00 Noon to 01.30 p.m.	2.30 p.m. to 4.00 p.m.
Day-1 19.10.2020 Monday	<b>Inauguration</b> <b>Session 1</b> Introduction to 3D Printing and Design <b>Dr. Y. Ravi Kumar</b> Associate Professor, Dept. of Mechanical Engineering, National Institute of Technology Warangal (NITW) Telangana State.	<b>Session 2</b> Concepts of Various 3D Printing Technologies <b>Sri. Joseph Mathew</b> Managing Director, INSTA3D Technologies, Coimbatore.	<b>Session 3</b> Selective Laser Sintering (SLS) and Selective Laser Melting (SLM) <b>Dr. D. Lavanya</b> Assistant Professor, Govt. College of Engineering, Salem.
Day-2 20.10.2020 Tuesday	<b>Session 4</b> Virtual Demo of Slicing Softwares <b>Sri. Mohammed Basheer</b> Managing Director, INSTA3D Technologies, Coimbatore.	<b>Session 5</b> Recent Trends in 3D Printing Technology and its Global Challenges <b>Dr. T. Sekar</b> Associate Professor, Government College of Technology, Coimbatore.	<b>Session 6</b> Novel Applications of 3D Printing <b>Dr. Rajesh Renganathan</b> Professor, Centre of Excellence for Manufacturing Science(COE) Coimbatore Institute of Technology, Coimbatore.
Day-3 21.10.2020 Wednesday	<b>Session 7</b> CAD for Additive Manufacturing and 3D Printing <b>Dr.P.Suresh</b> Professor, Sona College of Technology, Salem.	<b>Session 8</b> 3D Printing and Rapid Product Development <b>Dr. S. Vinoth</b> Associate Professor, National Institute of Technology (NIT), Trichy.	<b>Session 9</b> Design thinking, Slicing and demo of Designing software and 3D printer <b>Sri. Anand Kumar Mishra</b> Sr. Product Trainer, 3Dexter Education Pvt. Ltd., New Delhi.
Day-4 22.10.2020 Thursday	<b>Session 10</b> 3D Printing Applications in Nano Technology <b>Dr. K. Prabu</b> Managing Director, Creator Industries, Erode.	<b>Session 11</b> Dynamic Challenges and Opportunities in 3D Printing <b>Sri. K.Sridhar</b> Senior Manager, PSG TIFAC and CORE, Coimbatore.	<b>Session 12</b> Revolution of 3D Printing Technology in the Digital World <b>Dr. N.Nandakumar</b> Professor, Government College of Technology, Coimbatore.
Day-5 23.10.2020 Friday	<b>Session 13</b> Inspection and Testing techniques adopted in Additive Manufacturing Processes <b>Dr. S. Periyasamy</b> Associate Professor, Government College of Technology, Coimbatore.	<b>Session 14</b> Design and Development of Low - Cost 3D Printer <b>Sri. Rahul Verma</b> Head, Product Development, 3Dexter Education Pvt. Ltd., New Delhi.	Examination Feed back Valedictory Function.



The inauguration was held on 19.10.2020 online at 10:00 am. Chief Guest of the program was Dr. Y. Ravi Kumar, Associate Professor, Dept. of Mechanical Engineering, National Institute of Technology Warangal (NITW) Telangana State. All Excel Engineering College official were also present with the participants. Coordinator Dr.P.Karunakaran proposed the Vote of Thanks.

Some screenshots of the inaugural function are as below.





The list of participants was:-

S.No.	Name	Organization	Mobile	Email id
1.	Mr. Perabattula Rajeshkumar	BVRIT HYDERABAD COLLEGE OF ENGINEERING FOR WOMEN	9849898606	rajeshkumar.p@bvrithyderabad.edu.in
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5.	Mrs. DHANALAKSHMI S	PSR POLYTECHNIC COLLEGE	9787328682	saranyagaya86@gmail.com
6.	Mr. Sreenivasaraja N	Excel Engineering College	9789732149	sreeraja2010@gmail.com
7.	Mr. Sunil Bachani	Dr. Jivraj Mehta Institute of Technology	9033012439	sunil.bachani@djmit.ac.in
8.	Mr. S SURESH KUMAR	GOVT POLYTECHNIC NAMSAL	9101921644	sskumarhodaue@rediffmail.com
9.	Dr. Chirag Rameshbhai Sanghani	Tapi Diploma Engineering College	9979483117	chirag.sanghani1@gmail.com
10.	Dr. Sivakumar Annamalai	KONGU ENGINEERING COLLEGE	8870067895	askmechkongu@gmail.com
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12.	Dr. PARTHASARATHI V	PSG College of Technology	9943996689	sarathihere@gmail.com
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16.	Mrs. GOWTHAMI VUSIRIKKALAYA	SANTHIRAM ENGINEERING COLLEGE	7815978861	telugulakshmiadhusai@gmail.com
17.	Miss Krithiga R S	Jet Aerospace Aviation Research Center	8883276477	krithigasreenivasan@gmail.com
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37.	Mr. Mahendran A	Sona college of technology	9842211593	mahecad@gmail.com



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73.	Mr. Mani Prakash S	PSNA College of Engineering and Technology	9940330787	maniprakash12@psnacet.edu.in
74.	Mr. C. Naveen	Kongu engineering college	9566310221	cnaveen@kongu.ac.in
75.	Mr. Shitalkumar Bhavsar	COEP	9049318863	bhavsargrey@gmail.com
76.	Mr. LINGESWARAN.P	Shree Venkateshwara Hi-tech Engineering College	9789471331	plinges.waran@gmail.com
77.	Mr. KARTHIKEYAN I	NEHRU INSTITUTE OF ENGINEERING AND	9600990834	niotkarthikeyan@nehrucolleges.com



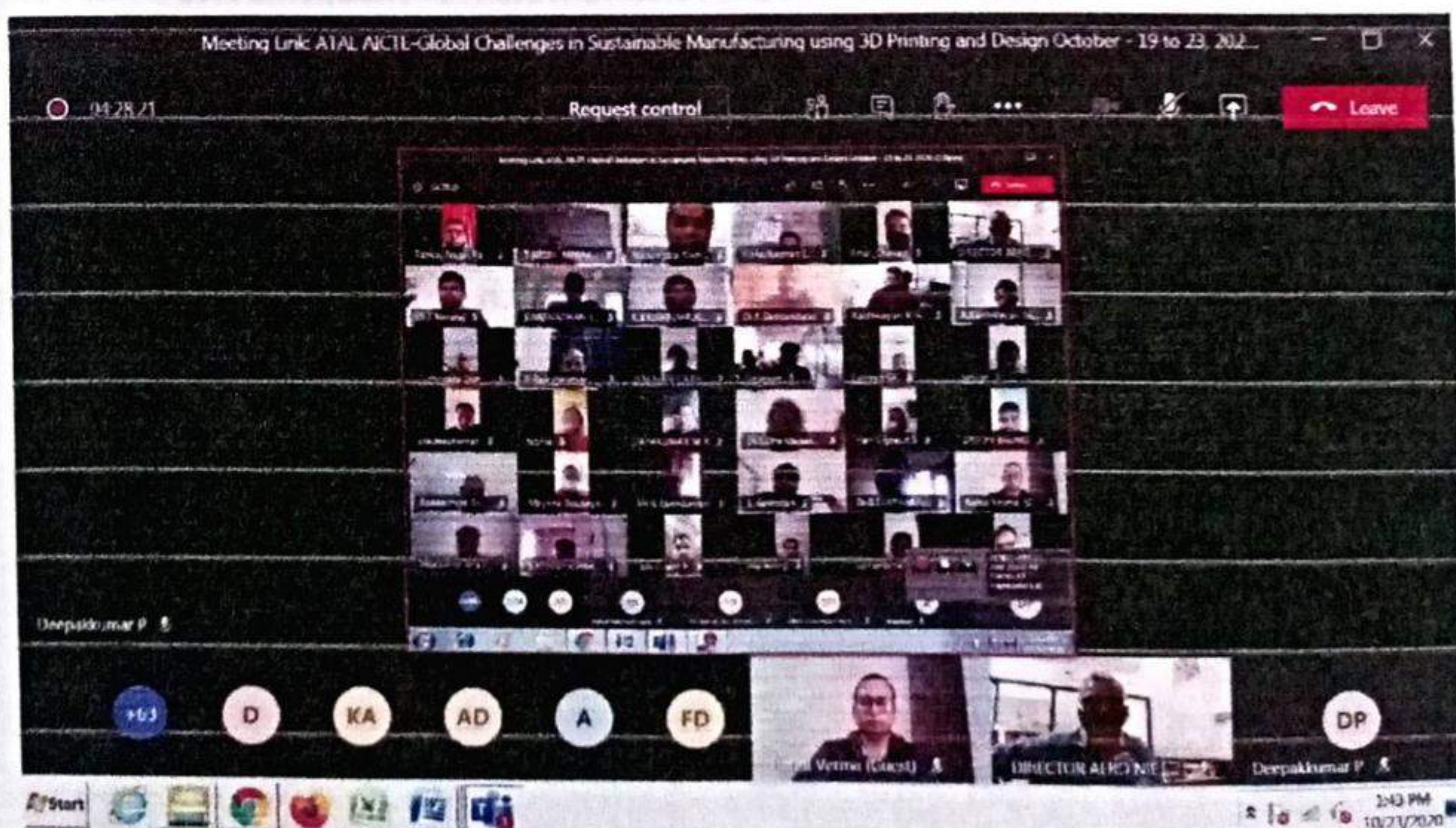
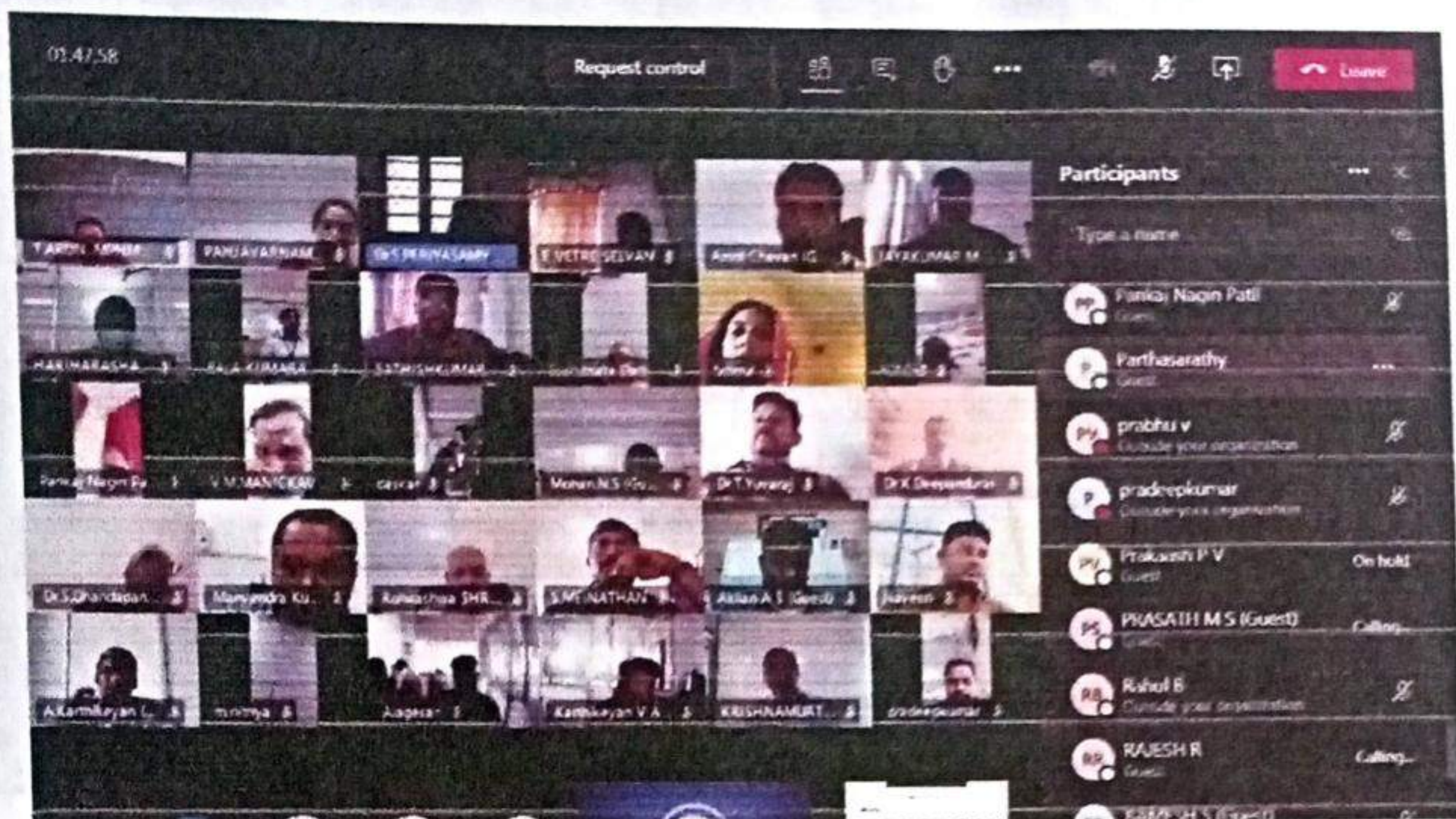
		TECHNOLOGY		
78.	Mr. SANKARAN A	Nehru Institution	9884061306	profsankaranaero@gmail.com
79.	Mr. Mohan.N.S	Erode Sengunthar Engineering College	9677951540	davezmohan@gmail.com
80.	Mr. Pidaparthi Pidaparthi	CMR College of Engineering & Technology	9966785688	maheshbabu.1045@gmail.com
81.	Mr. JAYAKUMAR M K	Nehru Institute of Engineering and Technology	9843614081	jaiaeroap@gmail.com
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90.	Mr. KARTHIKEYAN V	Excel Engineering College	9952220184	karthiwarriormech@gmail.com
91.	Mr. Rahul B	MVJ College of Engineering	9500314922	mailto2rahul@gmail.com
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93.	Mrs fatima	PST	9688030069	bst3072014@gmail.com
94.	Dr. A.Karthikeyan	Coimbatore Institute of Technology	7667516618	karthikeyanmech@cit.edu.in
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110.	Mr. MAYANK DOUGLIVAI	National Institute of Technology (Hassan)	7500000000	mayankdouglaivai@gmail.com
111.	Mr. Viswanathravikumar A	Gojan School of Business and Technology	9677318587	vichu1992ravi@gmail.com
112.	Mr. Akilan A S	Einstein College of Engineering	9940787914	akilan.goku@gmail.com
113.	Mr. Parthasarathy	Arasu Engineering College	9952854576	visitcps@gmail.com
114.	Mr. Mohamed Hussain	Parisutham institute of technology and science	8870305677	hussainman07@gmail.com
115.	Dr. ROHITASHWA SHRINGI	RTU KOTA	7014348093	rshringi@gmail.com
116.	Mr. DINESH KUMAR P K	RAJALAKSHMI ENGINEERING COLLEGE	9042782720	dineshkumar.pk@rajalakshmi.edu.in
117.	Mr. KARTHIKEYAN A	EXCEL ENGINEERING COLLEGE	9944620850	kas01@rediffmail.com
118.	Dr. Makesh. M	Paavai Engineering College	9842070388	makeshmanickampec@paavai.edu.in



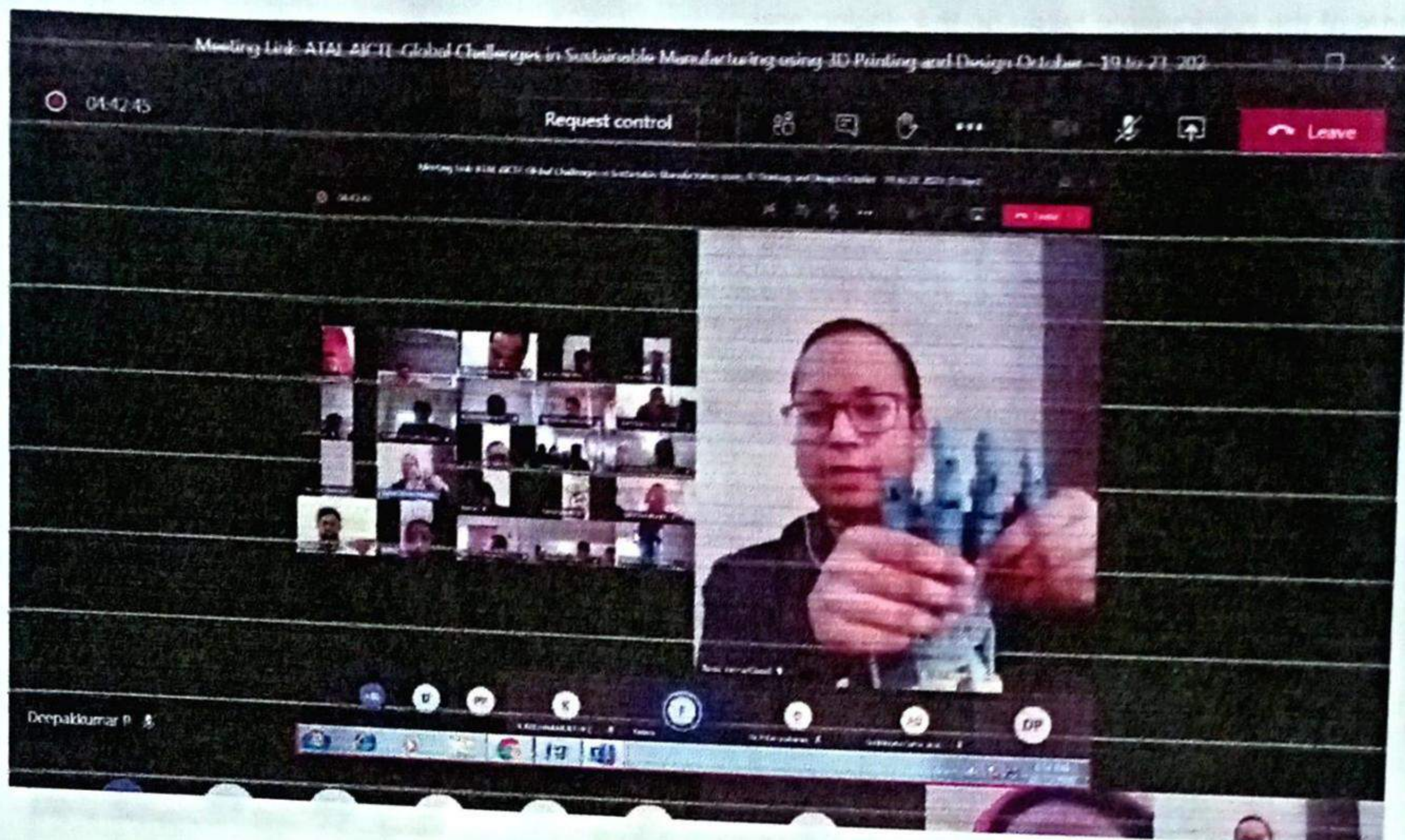
119.	Mr. S. BALAKRISHNAN	NANDHA ENGINEERING COLLEGE (AUTONOMOUS)	9578498736	balakrishnankvp@gmail.com
120.	Mr. M G RAJAGOPAL	Excel engineering college	9715518490	rajsairam.aero@gmail.com
121.	Mr. Vairamuthu.N	Parisutham Institute of Technology and science	7904357759	vairamaerospace@gmail.com
122.	Mr. Anand	PARK COLLEGE OF ENGINEERING AND TECHNOLOGY	8903463195	anand sl2010@yahoo.com
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130.	Dr. Venkatesh Raja, K	Sona College of Technology	9942010189	venkateshreja.mech@sonatech.ac.in
131.	Dr. T.Yuvaraj	Muthayammal Engineering College	9542031826	yuvappk@gmail.com
132.	Dr. T. PRIDHAR	Sri krishna college of technology	9790003531	T.Pridhar@skct.edu.in
133.	Mrs. Devimani M S	Erode Sengunthar Engineering College	9942895716	devimanikarunakaran@gmail.com
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136.	Mr. PRITHIVIRAJ N	Excel Engineering College	9677956900	npraj.engg@gmail.com
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143.	Mr. S.R.ARUN	EXCEL ENGINEERING COLLEGE	9003908090	srarun900@gmail.com
144.	Mr. Velmurugan	Excel Engineering College	9629289246	gvelmurugan.ecet@excelcolleges.com
145.	Mr. M. SAMBATHKUMAR	EXCEL ENGINEERING COLLEGE	9976345311	selva.kmsambath@gmail.com
146.	Mr. Karunakaran G	Excel	9677525829	abvindustries@gmail.com
147.	Mr. K. VIJAY BABU	EXCEL ENGINEERING COLLEGE	9942744425	vijaybabu.ecet@excelcolleges.com



screenshots of the participants taken on the closing are:-







Share Video Link as follows,

Particulars	Youtube Video Link
Day1_Session1	<a href="https://www.youtube.com/watch?v=tG59j1wzzuE">https://www.youtube.com/watch?v=tG59j1wzzuE</a>
Day1_Session2	<a href="https://www.youtube.com/watch?v=4jO0plyjKGc">https://www.youtube.com/watch?v=4jO0plyjKGc</a>
Day1_Session3	Not Willing to Upload
Day2_Session1	<a href="https://www.youtube.com/watch?v=_lb-yGq43Ko">https://www.youtube.com/watch?v=_lb-yGq43Ko</a>
<del>Day2_Session2</del>	<del><a href="https://www.youtube.com/watch?v=1Ty5kFbFtrs">https://www.youtube.com/watch?v=1Ty5kFbFtrs</a></del>
Day2_Session3	<a href="https://www.youtube.com/watch?v=6GTr5AfHbJI">https://www.youtube.com/watch?v=6GTr5AfHbJI</a>
Day3_Session1	<a href="https://www.youtube.com/watch?v=SfFIY0cICCA">https://www.youtube.com/watch?v=SfFIY0cICCA</a>
Day3_Session2	Not Willing to Upload
Day3_Session3	<a href="https://www.youtube.com/watch?v=Tk36kvm9YNo">https://www.youtube.com/watch?v=Tk36kvm9YNo</a>
Day4_Session1	Not Willing to Upload
Day4_Session2	<a href="https://www.youtube.com/watch?v=4YcfmKNYAIY">https://www.youtube.com/watch?v=4YcfmKNYAIY</a>
Day4_Session3	Not Willing to Upload
Day5_Session1	<a href="https://www.youtube.com/watch?v=YsHz3Yf7yzI">https://www.youtube.com/watch?v=YsHz3Yf7yzI</a>
<del>Day5_Session2</del>	<del><a href="https://www.youtube.com/watch?v=LpMDY8p1ccs">https://www.youtube.com/watch?v=LpMDY8p1ccs</a></del>



Feedback Link as follows,

Particulars	Feedback Link
Session1	<a href="https://docs.google.com/forms/d/1xf7z3_yiKx3F6yWCjBndDHpMY7gHw8JIYij7jUb44kw/edit">https://docs.google.com/forms/d/1xf7z3_yiKx3F6yWCjBndDHpMY7gHw8JIYij7jUb44kw/edit</a>
Session2	<a href="https://docs.google.com/forms/d/1d3q9meTgZmqj9hV7MLDwVyd-rigXRVtIrfYm13tox0/edit#responses">https://docs.google.com/forms/d/1d3q9meTgZmqj9hV7MLDwVyd-rigXRVtIrfYm13tox0/edit#responses</a>
Session3	<a href="https://docs.google.com/forms/d/13mrDzwKmkn_hDNIRbZZ24owvz3S-rEcsX1AzpiekHdA/edit">https://docs.google.com/forms/d/13mrDzwKmkn_hDNIRbZZ24owvz3S-rEcsX1AzpiekHdA/edit</a>
Session4	<a href="https://docs.google.com/forms/d/1jWvvyY4Hajarc6h6YzjwTpdzFcvSXqs9FGFVF1jQ3_s/edit?usp=sharing">https://docs.google.com/forms/d/1jWvvyY4Hajarc6h6YzjwTpdzFcvSXqs9FGFVF1jQ3_s/edit?usp=sharing</a>
Session5	<a href="https://docs.google.com/forms/d/1jWvvyY4Hajarc6h6YzjwTpdzFcvSXqs9FGFVF1jQ3_s/edit?usp=sharing">https://docs.google.com/forms/d/1jWvvyY4Hajarc6h6YzjwTpdzFcvSXqs9FGFVF1jQ3_s/edit?usp=sharing</a>
Session6	<a href="https://docs.google.com/forms/d/1Y8upffN6Rb7yMIR7moVGaelleGvr72QHdOFqq2Cemgl/edit?usp=sharing">https://docs.google.com/forms/d/1Y8upffN6Rb7yMIR7moVGaelleGvr72QHdOFqq2Cemgl/edit?usp=sharing</a>
Session7	<a href="https://docs.google.com/forms/d/1Tlx4QghKVDiDty5_V0Lwy_izy6K_IC9X6jWjH9jOTvU/edit?usp=sharing">https://docs.google.com/forms/d/1Tlx4QghKVDiDty5_V0Lwy_izy6K_IC9X6jWjH9jOTvU/edit?usp=sharing</a>
Session8	<a href="https://docs.google.com/forms/d/1Tlx4QghKVDiDty5_V0Lwy_izy6K_IC9X6jWjH9jOTvU/edit?usp=sharing">https://docs.google.com/forms/d/1Tlx4QghKVDiDty5_V0Lwy_izy6K_IC9X6jWjH9jOTvU/edit?usp=sharing</a>
Session9	<a href="https://docs.google.com/forms/d/10tEp3oHtC8j7xnd3T7fpfcgRuILN_N8yC5elBrRqUHQ/edit?usp=sharing">https://docs.google.com/forms/d/10tEp3oHtC8j7xnd3T7fpfcgRuILN_N8yC5elBrRqUHQ/edit?usp=sharing</a>
Session10	<a href="https://docs.google.com/forms/d/1VKXjl1xAHiBdCWozZiSib_6C28B85c3k6UuONIDS_Ck/edit?usp=sharing">https://docs.google.com/forms/d/1VKXjl1xAHiBdCWozZiSib_6C28B85c3k6UuONIDS_Ck/edit?usp=sharing</a>
Session11	<a href="https://docs.google.com/forms/d/1VKXjl1xAHiBdCWozZiSib_6C28B85c3k6UuONIDS_Ck/edit?usp=sharing">https://docs.google.com/forms/d/1VKXjl1xAHiBdCWozZiSib_6C28B85c3k6UuONIDS_Ck/edit?usp=sharing</a>
Session12	<a href="https://docs.google.com/forms/d/1eU0cMw4FQ6a4V_T_6vTcY3FwBqN-W9xQrZiErCCGrcE/edit?usp=sharing">https://docs.google.com/forms/d/1eU0cMw4FQ6a4V_T_6vTcY3FwBqN-W9xQrZiErCCGrcE/edit?usp=sharing</a>
Session13	<a href="https://docs.google.com/forms/d/1w32AYtAso2BueHjwgCLmle0NkuEulzQ2bh-4lbzM/edit?usp=sharing">https://docs.google.com/forms/d/1w32AYtAso2BueHjwgCLmle0NkuEulzQ2bh-4lbzM/edit?usp=sharing</a>
Session14	<a href="https://docs.google.com/forms/d/10-yu8Kh31YVIU-xer6XOryKqjoRxVrG4CIJmsLe5jqs/edit?usp=sharing">https://docs.google.com/forms/d/10-yu8Kh31YVIU-xer6XOryKqjoRxVrG4CIJmsLe5jqs/edit?usp=sharing</a>

It was a great Initiative by ATAL Academy. I am thankful to AICTE for giving me this opportunity to conduct online FDP for faculty members of technical institute of India free of cost. I got huge response for registration as well as lots of compliment of arranging the online FDP.





## EXCEL ENGINEERING COLLEGE

(Autonomous)

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

Accredited by NBA, NAAC with "A+" and Recognised by UGC (2f & 12B)


KOMARAPALAYAM - 637303

Department of Aeronautical Engineering

AICTE sponsored online International Conference on Materials, Manufa  
Automation, Artificial Intelligence and Networking for Industry 5.0 (ICM RAIN-2021)

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HOD / AERONAUTICAL ENGINEERING  
EXCEL ENGINEERING COLLEGE,  
KOMARAPALAYAM - 637 303.



ed-28 February, 2020

File No. 67-10/RJED/GOC/POLICY-3/2019-20

**All 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](http://www.aicte-india.org)



**GOC - Sanction Letter**

To

The Drawing and Disbursing Officer  
All India Council for Technical Education  
Nelson Mandela Marg, Vasant Kunj,  
New Delhi-110070

**Subject:** Release of a sum of Rs. 1,66,667/- (Rupees One lakh sixty six thousand six hundred sixty seven only) as Grant-in-Aid to conduct Conference under the scheme Grant for Organizing Conference (GOC) for the year 2018-19 payable during the current financial year 2019-20-reg.

Sir,

With reference to the proposal submitted by the institute, this is to convey the sanction of the Council for payment of Rs. 1,66,667/- (Rupees One lakh sixty six thousand six hundred sixty seven only) to conduct Conference under the scheme Grant for Organizing Conference (GOC), as per details given below:

1.	Name and address of the Beneficiary Institution:	Director/ Principal/ Registrar Excel Engineering College, NH-47, Salem Main Road, Sankari West Post, Tiruchengode-Taluk, Pallakapalayam, Namakkal-District, Tamil Nadu-637303
2.	Permanent ID of Institute:	1-1-8213921
3.	Title of Conference:	International Conference on Materials, Manufacturing, Robotic Automation, Artificial Intelligence and Networking for Industry 5.0
4.	Name of Coordinator:	Dr. Karunakaran P.
5.	Grant-in-aid Sanctioned:	Rs. 1,66,667/- (Rupees One lakh sixty six thousand six hundred sixty seven only)
6.	Amount to be released during the year 2019-20:	Rs. 1,66,667/- (Rupees One lakh sixty six thousand six hundred sixty seven only)
7.	Sanctioned grant-in-aid is debitable to:	Major Head 601. 17 (a) Gen (GOC) Plan Head)

1. The amount of the Grant shall be drawn by the Drawing and Disbursing Officer, All India Council for Technical Education, New Delhi on the Grant-in-aid bill and shall be disbursed to and credited to the account of Registrar/Director/Principal of the institute through RTGS.
2. This grant-in-aid 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 College/Institution**

**I. Release of funds**

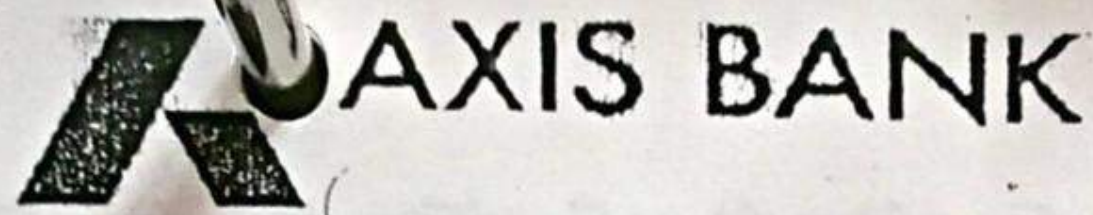
- a. The Principal/Director of the institute and the Coordinator of the program are hereby requested to verify the correctness of the undermentioned bank account/ RTGS details submitted by them alongwith the Proposal/Estimated expenditure details, against which the grant is being released:

Institu te PAN No.	Bank Name	Bank Branch Name	Bank Branch Address	Account Holder Name	Account Type	Account Number	IFSC Code
AAETS 0831R	AXIS BANK	METTU NASUVA MPALAYAM	KSP Mahal, Door No.5/491,492, Kalinagarayapalayam, Mettunasuvampalayam	EXCEL ENGINEERING COLLEGE	Saving Account	910010019166 442	UTIB000 1449

QIS Application ID : 1-6286176578

Page-1





**EXCEL ENGINEERING COLLEGE**

Joint Holder :-

68J K K SUNDARAM NAGAR KOMARAPALAYAM  
NAMAKKAL

TAMIL NADU-INDIA  
638183

Customer No :834501637

Scheme :SB-TRUST/SOCIETY/NGO/GOVT

Currency :INR

Statement of Axis Account No :910010019166442 for the period (From : 02-03-2020 To : 02-03-2020)

Tran Date	Chq No	Particulars	Debit	Credit	Balance	Init. Br
		<b>OPENING BALANCE</b>			<b>951664.13</b>	
02-03-2020		NEFT/CITIN20034464942/ONE97 COMMUNICATIONS LIMITE		2038.00	953702.13	248
02-03-2020		ECS/Release full final a/C022029112440/AXIS BANK		166667.00	1120369.13	2567
		<b>TRANSACTION TOTAL</b>	.00	168705.00		
		<b>CLOSING BALANCE</b>			<b>1120369.13</b>	

Unless the constituent notifies the bank immediately of any discrepancy found by him/her in this statement of Account, it will be taken that he/she has found the account correct.

The closing balance as shown/displayed includes not only the credit balance and / or overdraft limit, but also funds which are under clearing. It excludes the amount marked as lien, if any. Hence the closing balance displayed may not be the effective available balance. For any further clarifications, please contact the Branch.

We would like to reiterate that, as a policy, Axis Bank does not ask you to part with/disclose/revalidate of your iConnect passord,login id and debit card number through emails OR phone call Further,we would like to reiterate that Axis Bank shall not be liable for any losses arising from you sharing/disclosing of your login id, password and debit card number to anyone. Please co-operate by forwarding all such suspicious/spam emails, if received by you, to customer.service@axisbank.com

With effect from 1st August 2016, the replacement charges for Debit card and ATM card applicable on Current accounts have been revised. To know more about the applicable charges,please visit [www.axisbank.com](http://www.axisbank.com)

REGISTERED OFFICE - AXIS BANK LTD,TRISHUL,Opp. Samartheshwar Temple, Near Law Garden, Ellisbridge, Ahmedabad .  
380006.This is a system generated output and requires no signature.

**Legends :**

ICONN-Transaction trough Internet Banking

VMT-ICON-Visa Money Transfer through Internet Banking

AUTOSWEEP-Transfer to linked fixed deposit

REV SWEEP-Interest on Linked fixed Deposit

SWEEP TRF-Transfer from Linked Fixed Deposit / Account



Letter No.: EEC/AICTE-GOC/E-Conference/2019-20/02

Date: 14.07.2020

To

Dr. Neeraj Saxena,  
The Drawing and Disbursing Officer,  
All India Council for Technical Education,  
Nelson Mandela Marg, Vasant Kunj,  
New Delhi - 110070

Respected Sir

Ref: F.No.67-10/RIFD/GOC/POLICY-3/2019-20 Dated: 19.06.2020

Sub: Acceptance with dates for organizing E-Conference under the scheme Grant for Organizing Conference (GOC) - Reg.

Thank you for the sanction and release of grant Rs.1,66,667/- (Rupees One lakh sixty six thousand six hundred sixty seven only) to conduct International Conference under the scheme Grant for Organizing Conference (GOC) in Excel Engineering College.


We accept the sanctioned and released grant to conduct the International Conference on Materials, Manufacturing, Robotic Automation, Artificial Intelligence and Networking for Industry 5.0 on 28.01.2021 & 29.01.2021 in online mode as per your letter (Ref: F.No.67-10/RIFD/GOC/POLICY-3/2019-20 Dated: 19.06.2020) due to outbreak of COVID-19.

Permission/Clearance of Government of India for Organizing International Conference is in progress.

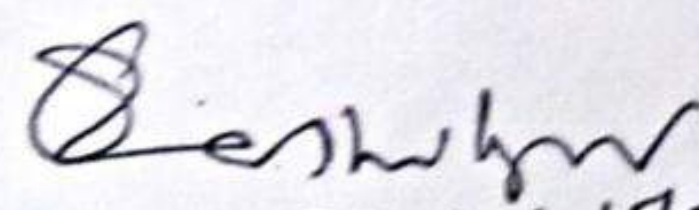
Herewith the copy of GOC - Sanction Letter for E-Conference is enclosed for your reference.

Thanking you

Yours truly

  
Coordinator 14/7/2020

Dr.P.Karunakaran,

  
Principal 14/7/2020

Dr.C.Karthikeyini

PRINCIPAL  
EXCEL ENGINEERING COLLEGE  
KOMARAPALAYAM.

NH-544, Salem Main Road, Pallakapalayam, Sankari West Post, Komarapalayam Taluk,  
Namakkal District - 637303, Tamil Nadu, INDIA, Mobile: +91 99656 41888, Tel: +91 4288 227361 to 68,



Key Indicator-3.2 Resource Mobilization for Research (10)

3.2.1 & 3.2.4 Grants for research projects sponsored by the government and nongovernment sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution during the last five years (INR in Lakhs)

Metric No.	Key Indicator	Weightage	Data Template (If Available)							
			Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/ Co-investigator	Name of the Funding agency	Type (Government/ Non-Government)	Department of Principal Investigator/ Co Investigator	Year of Award	Funds provided (INR in lakhs)	Duration of the project
3.2.1 & 3.2.4	Grants for research projects sponsored by the government and nongovernment sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution during the last five years (INR in Lakhs) 3.2.1.1: Total Grants for research projects sponsored by the government and nongovernment sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution year wise during the year (INR in lakhs) File Description(Upload) • Any additional information • e-copies of the grant award letters for research projects sponsored by nongovernment	6	STTP	Dr. K. GEETHA	AICTE	Government	CSE	2020-21	274000/-	6 Days
			FDP	Dr. S. SHEETHAR	AICTE- ATAL FDP	Government	CSE	2020-21	83000/-	5 Days

R&D Coordinator

DEPARTMENT OF CSE  
Excel Export  
Vomaraudikya  
Page 303



# All 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](http://www.aicte-india.org)



## STTP- Sanction Letter

Ref. No. 34-66/481/FDC/STTP/Policy-1/2019-20

Date 10 AUG 2020

From

Director,  
Faculty Development Cell,  
AICTE, New Delhi-110070

To

The Drawing and Disbursing Officer,  
All India Council for Technical Education,  
Nelson Mandela Marg,  
Vasant Kunj, New Delhi – 110070

**Sub:** Release of grant for conduct of Short Term Training Programme (STTP) under AQIS 2019-20 during the financial year 2020-21- reg.

Sir,

This is to convey the sanction of the Council for payment of **Rs. 274000 /- (Rupees Two Lakh SeventyFour Thousand Only)** for conduct of Short Term Training Program as per details given below:-

1.	Name and address of the beneficiary University / Institution	EXCEL ENGINEERING COLLEGE NH 47-SALEM MAIN ROAD SANKARI WEST POST, TIRUCHENGODE TALUK, PALLAKAPALAYAM - 637303 NAMAKKAL DISTRICT TAMILNADU Tamil Nadu 637303
2.	Permanent ID of Institute	1-8213921
3.	Institute type	Unaided - Private
4.	Name of Coordinator	Dr. GEETHA K.
5.	Amount sanctioned	Rs. 274000/-
6.	Amount to be released	Rs.274000/- Full & final payment
7.	Head of account	<b>601.15(a) Gen. Short Term Training Programme (Plan)</b>
8.	The authorized officer in whose favour Cheque/ Demand Draft/ RTGS is to be made	REGISTRAR / DIRECTOR / PRINCIPAL
9.	Title of the programme	Recent Trends in Machine Learning and Big Data Analytics using Python Programming

1. The amount of the grant shall be drawn by the Drawing and Disbursing Officer, All India Council for Technical Education on the grant-in-aid bill and shall be disbursed to and credited to the Registrar/ Director/Principal of the institute through RTGS.
2. This grant-in-aid 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.
3. The Principal of the Institute and the Coordinator of the Program are requested to verify the correctness of the under-mentioned Bank Account / RTGS Details submitted by them alongwith the proposals, in which the grant is being released:-



Institute PAN No.	Bank Name	Bank Branch Name	Bank Branch Address	Account Holder Name	Account Type	Account Number	IFSC Code
AAETS0831R	AXIS BANK	Mettunasuva mpalayam	KSP Mahal, Door No 5/491, 492	EXCEL ENGINEERING COLLEGE	Saving Account	910010019166442	UTIB0001449

#### Instructions/Guidelines to be followed by the University/Institution

##### I. Disbursement of funds to University/Institutions

- The full amount of the grant sanctioned is being released as advance to the University/Institute.
- The amount spent by the institute on the conduct of STTP shall be adjusted on the basis of utilization certificate and detailed expenditure statement submitted by the University/Institution on the prescribed format along with other mandatory documents viz feedback form, copy of proceedings and completion report etc.
- The above said amount of grant shall be refunded back to AICTE if the Letter of Approval (LOA) / Extension of Approval (EOA) is not issued by AICTE to the institute for the academic year 2020-21.

##### II Maintenance of Accounts

- The Institute shall strictly follow the provisions laid down in the scheme document as available on the portal.
- Funds covered by this grant shall be kept separately and would not be mixed up with other funds so as to know the amount of interest accrued on the grant.
- 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 grant is intended to cover items of expenditure connected with the Short Term Training Programme such as Boarding & Lodging to the participants, TA to outstation participants, Honorarium to Course Coordinator, reading material to participants, Honorarium to resource persons, TA/DA to resource persons including two outstations resource persons & working expenses (reprographic services, postage, transport, daily wages, tea/coffee etc).

##### III. Conduct of test and issuance of certificate

A test shall be conducted by Program Monitoring Committee (PMC) at the end of the program and joint certificates shall be issued (by AICTE & conducting institute) to those participants who have attended the program and have scored minimum 60% marks in the test.

##### IV. Submission of Documents by the University/Institutions to AICTE

- The following mandatory relevant documents are required to be submitted by the University/Institution within one month of the completion of the program:-
  - Original Statement of actual expenditure & Utilization Certificate in the prescribed proforma duly signed by the Head of the institution and countersigned by Registrar/Finance Officer/Govt. Auditor. In case of self-financing/private institutions, Statement of actual Expenditure & Utilization Certificate are required to be audited & signed and sealed by a Chartered Accountant endorsing the membership number and complete postal address. Format for the same is available on AICTE web portal.



The University/Institution is not required to submit bills/vouchers/invoices etc for the expenditure incurred out of recurring grants. However, such copies of bills/vouchers/invoices shall be digitized by respective institutions receiving grant and uploaded scanned copies of such bills/vouchers/invoices etc on the portal for availability and view at any point of time.

- (ii) Feedback form in the prescribed proforma.
  - (iii) Copy of the proceedings and completion report.
  - (iv) List of candidates who have successfully completed the program on the basis of the test conducted by Program Monitoring Committee (PMC).
  - (v) Report submitted by Program Monitoring Committee (PMC).
- b. The amount of the grant shall be adjusted on submission of utilization certificate & detailed expenditure statement by University/Institution. On receipt of these documents, the total amount of financial assistance, admissible as per the norms, shall be worked out and grant-in-aid adjusted.

#### V. General instructions

- a. Preferably 10% of the participants may be industry professionals deputed by industry. Further, not more than 2 participants shall be from the host institution/group of institutions.
- b. The grant released/or part thereof, if remains unutilized for any reason after expiry of stipulated time period (for any reasons to include unspent amount, interest, penalty if imposed) shall be refunded back to AICTE in the form of RTGS payable to Member Secretary, AICTE, New Delhi. The bank details of AICTE are as under:-

Account No	: 55113199952
Name of the Account Holder	: Member Secretary, AICTE, New Delhi
Bank Name	: State Bank of India
Branch Name	: Shastri Bhawan, New Delhi
IFSC Code	: SBIN0050203

- c. The STTP is a residential program of a duration of six days with minimum 40 participants. The approved STTP shall be conducted within six months from the date of release of funds.
- d. If programme is not conducted within the period of six months of the release of the 100% grant, the released amount, alongwith interest accrued thereon, has to be necessarily returned back to AICTE within a month through RTGS.
- d. The expenditure under the Heads 'Honorarium to Course Coordinator' and 'Honorarium to Resource Persons' shall not exceed 1% & 20% respectively of the total sanctioned grant for the Programme. However, overall expenditure shall not exceed the funds sanctioned for the Programme.
- g. Any extra money required to complete the programme must be borne by the institute from their own resources. But the quality of the activities should not be compromised.
- h. Any unavoidable circumstantial change in the program with respect to name of Project Coordinator, Venue and date for organizing STTP would mandatorily require prior approval of the Council. All such requests should be addressed to AICTE, in advance, recording the specific reasons for proposed changes, failing which the offer for the grant already issued would be treated as automatically withdrawn and the financial assistance released in favour of the beneficiary institution shall be refunded immediately to the Council. Kindly mention the File No. 34-66/481/FDC/STTP/Policy-1/2019-20 in your future correspondence.
- i. **Steering Committee/Project Monitoring Committee (PMC)** is required to be constituted at institutional level. The constitution of the PEC shall be as under:
- (i) Principal/Director/Registrar of the institution (Chairperson).
  - (ii) Coordinator of the program (Member Secretary).
  - (iii) Two HoDs and one subject expert (members).



The members of the said PMC shall not be below the rank of Associate Professor. A test shall be conducted by Project Monitoring Committee (PMC) at the end of the program and the certificates shall be issued to those participants who have attended the program and have qualified in the test. The minutes of the meetings, along with PMC report, are to be submitted to the Council at end of the program along with other mandatory documents.

- j. **Goi GFR rules** (@<https://doe.gov.in/order-circular/general-financial-rules2017-0>) should be followed during utilization of grant.
- k. This Sanction Order may be treated as Offer Letter for all purposes.

**NOTE:-** Any deviation from the above will invoke serious action against the Institute.

Yours sincerely,

(Col. B Venkat)  
Director (FDC)

Copy forwarded for information and necessary action to: -

1. **Name and Address of the Coordinator**  
Dr. GEETHA K.  
EXCEL ENGINEERING COLLEGE  
NH 47-SALEM MAIN ROAD SANKARI WEST POST, TIRUCHENGODE TALUK, PALLAKAPALAYAM -  
637303 NAMAKKAL DISTRICT TAMILNADU  
Tamil Nadu 637303
2. **The Registrar / Director / Principal**  
EXCEL ENGINEERING COLLEGE  
NH 47-SALEM MAIN ROAD SANKARI WEST POST, TIRUCHENGODE TALUK, PALLAKAPALAYAM -  
637303 NAMAKKAL DISTRICT TAMILNADU  
Tamil Nadu 637303
3. **Guard File**

10 AUG 2020





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

F. No. 01 App No.1584017286/AICTE/ATAL-HQ/2020-21/

Date: 27th November, 2020

To  
The Principal  
Excel Engineering College  
NH 544, Salem Main Road,  
Pallakapalayam, Sankari West Post,  
Komarapalayam  
Namakkal-637 303  
TAMILNADU

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

Re,

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 [Block chain] from 14.12.2020 to 18.12.2020** to **(Excel Engineering College, NH-544, Salem Main Road, Pallakapalayam, Sankari West Post, Komarapalayam, Namakkal, TAMILNADU)** 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 Director	Rs. 10,000/-
2.	Honorarium to Coordinator Rs 2000/- per day x 5 days	Rs. 10,000
3.	Honorarium for experts (Rs 3000 per session for total 4 sessions)	Rs. 12,000
4.	Provision for payment to Lab Assistant engaged during lab practices	Rs. 1000
5.	Institutional charges	Rs. 15,000
6.	Miscellaneous charges	Rs. 15,000
<b>TOTAL:</b>		<b>Rs. 93,000/-</b>

Programmes having permission to change accounts under different heads with overall ceiling of Rs 93 lakh being meant.

- 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 attended the program with minimum **80% of attendance** and scored **minimum 60% marks** in the test.



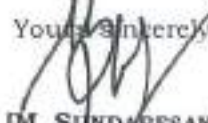
#### IV. Submission of documents by university/institution

- a. The following mandatory relevant documents are required to be submitted by the university/institution within one month of the completion of the program: -
  - (i) List of candidates who have successfully completed the program on the basis of the test conducted by Program Coordinator.
  - (ii) A program completion report along with photographs, videos, media report is to send after the completion of workshop along with the list of participants and Utilization Certificate, Expenditure Statement and feedback form etc. within one month of conduct of **AICTE Training and Learning (ATAL) Academy programme**.
- b. The amount of the grant shall be adjusted on submission of utilization certificate & detailed expenditure statement by University/Institution. On receipt of these documents, the total amount of financial assistance, admissible as per the norms, shall be worked out and grant-in-aid shall to adjust.

#### V. General Instructions

- a. **Maximum 200 participants** may be allowed to attend online FDP on a first come first serve basis however AICTE officials may be allowed to attend over and above 200 number. Coordinators are free to admit less number of participants depending on the feasibility.
- b. **You are requested to allow new participants and discourage participants who have already done one online ATAL FDP earlier.**
- c. A test has to be conducted (may be online) on the last day and those who score more than 60% will be termed as successful candidates. Those who have **attendance 80% or more** and also **score more than 60% in the test** will be issued a **digital certificate**.
- d. These **online sessions are to be recorded** as the facility is available on the software which is being used for online delivery of FDP. You are also requested to share recording of sessions with AICTE.
- e. **Eligibility for Participants:**
  - (i) The faculty members of the AICTE approved institutions, research scholars, PG, Scholars, participants from Government, Industry (Bureaucrats/ Technicians/ Participants from Industry etc.) and staff of host institutions.
  - (ii) Not more than 30% from Host Institution
- f. If programme is not conducted in the year 2020 only, there leased amount, along with interest accrued thereon, has to be returned back to AICTE.
- g. Any extra money required to complete the programme must be borne by the institute from their own resources but the quality of the activities should not be compromised.
- h. Any unavoidable circumstantial change in the Program with respect to name of Project Coordinator, and date for organizing online AICTE Training and Learning (ATAL) Programme would mandatorily require prior approval of the Council. All such requests should be addressed to ATAL Academy, in advance, recording the specific reasons for proposed changes, failing which the offer for the grant already issued would be treated as automatically withdrawn and the financial assistance released in favour of the beneficiary institution shall be refunded immediately to the Council.

This Sanction Order may be treated as Offer Letter for all purposes.

Yours sincerely,  
  
[M. SUNDARESAN]  
REGIONAL OFFICER  
AICTE, SRO, CHENNAI

Copy forwarded for information and necessary action to: -

1. Coordinator ATAL Programme
2. ATAL Academy Cell AICTE HQ
3. Guard File.



EXCEL ENGINEERING COLLEGE

(Autonomous)

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

Accredited by NBA, NAAC with "A+" and Recognised by UGC (2f & 12B)

KOMARAPALAYAM - 637303

**3.2 Resource Mobilization for Research**

3.2.1 & 3.2.4 | nongovernment sources such as industry, corporate houses, international bodies, endowments, CI

Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/ CoInvestigator	Name of the Funding agency	Type (Govern ment/ Non-Governm ent)	Department of Principal Investigator/ Co Investigator	Year of Award	Funds provide d (INR in lakhs)	Duration of the project
STTP	Dr.A.Vasantharaj	AICTE	Governm ent	ECE	2020-21	347333	6 days

  
R and D Coordinator

  
Head of Department

HEAD OF THE DEPARTMENT  
Electronics And Communication Engineering  
Excel Engineering College  
Komarapalayam - 637 303.





# All 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](http://www.aicte-india.org)



## STTP Sanction letter

Ref. No. 34-66/480/FDC/STTP/Policy-1/2019-20

Date 16/1/2020

From

Director,  
Faculty Development Cell,  
AICTE, New Delhi-110070

To

The Drawing and Disbursing Officer,  
All India Council for Technical Education,  
Nelson Mandela Marg,  
Vasant Kunj, New Delhi - 110070

**Sub:** Release of grant for conduct of Short Term Training Programme (STTP) under AQIS 2019-20 during the financial year 2020-21- reg.

Sir,

This is to convey the sanction of the Council for payment of Rs. 347333 /- (Rupees Three Lakh FortySeven Thousand Three Hundred ThirtyThree Only) for conduct of Short Term Training Program as per details given below:-

1.	Name and address of the beneficiary University / Institution	EXCEL ENGINEERING COLLEGE NH 47-SALEM MAIN ROAD SANKARI WEST POST, TIRUCHENGODE TALUK, PALLAKAPALAYAM - 637303 NAMAKKAI DISTRICT TAMILNADU Tamil Nadu 637303
2.	Permanent ID of Institute	1-8213921
3.	Institute type	Unaided - Private
4.	Name of Coordinator	Mr. VASANTHARAJ A
5.	Amount sanctioned	Rs. 347333/-
6.	Amount to be released	Rs. 347333/- Full & final payment
7.	Head of account	601.15(a) Gen. Short Term Training Programme (Plan)
8.	The authorized officer in whose favour Cheque/ Demand Draft/ RTGS is to be made	REGISTRAR / DIRECTOR / PRINCIPAL
9.	Title of the programme	Six Days Short term training program on "Secure Data Optimization in IOT using GNU Radio Companion and USRP"

1. The amount of the grant shall be drawn by the Drawing and Disbursing Officer, All India Council for Technical Education on the grant-in-aid bill and shall be disbursed to and credited to the Registrar/ Director/Principal of the institute through RTGS.
2. This grant-in-aid 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.



3. The Principal of the Institute and the Coordinator of the Program are requested to verify the correctness of the under-mentioned Bank Account / RTGS Details submitted by them alongwith the proposal, in which the grant is being released.

Institute PAN No.	Bank Name	Bank Branch Name	Bank Branch Address	Account Holder Name	Account Type	Account Number	IFSC Code
AAET50831R	AXIS BANK	Mettunasuva mpalayam	KSP Mahal, Door No 5/491, 492	EXCEL ENGINEERING COLLEGE	Saving Account	91001001916844 2	UTIB000144 9

#### Instructions/Guidelines to be followed by the University/Institution

##### I. Disbursement of funds to University/Institutions

- The full amount of the grant sanctioned is being released as advance to the University/Institute.
- The amount spent by the institute on the conduct of STTP shall be adjusted on the basis of utilization certificate and detailed expenditure statement submitted by the University/Institution on the prescribed format along with other mandatory documents viz feedback form, copy of proceedings and completion report etc.
- The above said amount of grant shall be refunded back to AICTE if the Letter of Approval (LOA) / Extension of Approval (EOA) is not issued by AICTE to the institute for the academic year 2020-21.

##### II. Maintenance of Accounts

- The Institute shall strictly follow the provisions laid down in the scheme document as available on the portal.
- Funds covered by this grant shall be kept separately and would not be mixed up with other funds so as to know the amount of interest accrued on the grant.
- 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 grant is intended to cover items of expenditure connected with the Short Term Training Programme such as Boarding & Lodging to the participants, TA to outstation participants, Honorarium to Course Coordinator, reading material to participants, Honorarium to resource persons, TA/DA to resource persons including two outstations resource persons & working expenses (reprographic services, postage, transport, daily wages, tea/coffee etc).

##### III. Conduct of test and issuance of certificate

A test shall be conducted by Program Monitoring Committee (PMC) at the end of the program and joint certificates shall be issued (by AICTE & conducting institute) to those participants who have attended the program and have scored minimum 60% marks in the test.

##### IV. Submission of Documents by the University/Institutions to AICTE

- The following mandatory relevant documents are required to be submitted by the University/Institution within one month of the completion of the program:-
  - Original Statement of actual expenditure & Utilization Certificate in the prescribed proforma duly signed by the Head of the institution and countersigned by Registrar/Finance Officer/Govt Auditor. In case of self-financing/private institutions, Statement of actual Expenditure & Utilization Certificate are required to be audited & signed and sealed by a Chartered Accountant endorsing the membership number and complete postal address. Format for the same is available on AICTE web portal.



The University/Institution is not required to submit bills/vouchers/invoices etc for the expenditure incurred out of recurring grants. However, such copies of bills/vouchers/invoices shall be digitized by respective institutions receiving grant and uploaded scanned copies of such bills/vouchers/invoices etc on the portal for availability and view at any point of time.

- (ii) Feedback form in the prescribed proforma.
- (iii) Copy of the proceedings and completion report.
- (iv) List of candidates who have successfully completed the program on the basis of the test conducted by Program Monitoring Committee (PMC).
- (v) Report submitted by Program Monitoring Committee (PMC).

- b. The amount of the grant shall be adjusted on submission of utilization certificate & detailed expenditure statement by University/Institution. On receipt of these documents, the total amount of financial assistance, admissible as per the norms, shall be worked out and grant-in-aid adjusted.

#### V. General instructions

- a. Preferably 10% of the participants may be industry professionals deputed by industry. Further, not more than 2 participants shall be from the host institution/group of institutions.
- b. The grant released/or part thereof, if remains unutilized for any reason after expiry of stipulated time period (for any reasons to include unspent amount, interest, penalty if imposed) shall be refunded back to AICTE in the form of RTGS payable to Member Secretary, AICTE, New Delhi. The bank details of AICTE are as under:-

Account No	: 55113199952
Name of the Account Holder	: Member Secretary, AICTE, New Delhi
Bank Name	: State Bank of India
Branch Name	: Shastri Bhawan, New Delhi
IFSC Code	: SBIN0050203

- c. The STTP is a residential program of a duration of six days with minimum 40 participants. The approved STTP shall be conducted within six months from the date of release of funds.
- d. If programme is not conducted within the period of six months of the release of the 100% grant, the released amount, alongwith interest accrued thereon, has to be necessarily returned back to AICTE within a month through RTGS.
- d. The expenditure under the Heads 'Honorarium to Course Coordinator' and 'Honorarium to Resource Persons' shall not exceed 1% & 20% respectively of the total sanctioned grant for the Programme. However, overall expenditure shall not exceed the funds sanctioned for the Programme.
- g. Any extra money required to complete the programme must be borne by the institute from their own resources. But the quality of the activities should not be compromised.
- h. Any unavoidable circumstantial change in the program with respect to name of Project Coordinator, Venue and date for organizing STTP would mandatorily require prior approval of the Council. All such requests should be addressed to AICTE, in advance, recording the specific reasons for proposed changes, failing which the offer for the grant already issued would be treated as automatically withdrawn and the financial assistance released in favour of the beneficiary institution shall be refunded immediately to the Council. Kindly mention the File No. 34-66/480/FDC/STTP/Policy-1/2019-20 in your future correspondence.
- i. **Steering Committee/Project Monitoring Committee (PMC)** is required to be constituted at institutional level. The constitution of the PEC shall be as under:

- (i) Principal/Director/Registrar of the institution (Chairperson).



- (ii) (ii) Coordinator of the program (Member Secretary).
- (iii) Two HoDs and one subject expert (members)

The members of the said PMC shall not be below the rank of Associate Professor. A test shall be conducted by Project Monitoring Committee (PMC) at the end of the program and the certificates shall be issued to those participants who have attended the program and have qualified in the test. The minutes of the meetings, along with PMC report, are to be submitted to the Council at end of the program along with other mandatory documents.

- j. **GoI GFR rules** (@<https://doe.gov.in/order-circular/general-financial-rules2017-0>) should be followed during utilization of grant.
- k. This Sanction Order may be treated as Offer Letter for all purposes.

**NOTE:-** Any deviation from the above will invoke serious action against the Institute.

Yours sincerely,

(Col. B Venkat)  
Director (FDC)

10/10/2020

Copy forwarded for information and necessary action to:-

1. **Name and Address of the Coordinator**  
Mr. VASANTHARAJ A  
EXCEL ENGINEERING COLLEGE  
NH 47-SALEM MAIN ROAD SANKARI WEST POST, TIRUCHENGODE TALUK, PALLAKAPALAYAM -  
637303 NAMAKKAL DISTRICT TAMILNADU  
Tamil Nadu 637303
2. **The Registrar / Director / Principal**  
EXCEL ENGINEERING COLLEGE  
NH 47-SALEM MAIN ROAD SANKARI WEST POST, TIRUCHENGODE TALUK, PALLAKAPALAYAM -  
637303 NAMAKKAL DISTRICT TAMILNADU  
Tamil Nadu 637303
3. **Guard File**





Phone : 011-26131577 - 78, 80  
011-29521000  
Website : [www.aicte-india.org](http://www.aicte-india.org)



सत्यमेव जयते

अखिल भारतीय तकनीकी शिक्षा परिषद्

( भारत सरकार का एक संवैधानिक निकाय )  
( मानव संसाधन विकास विभाग, भारत सरकार )  
सत्यमेव जयते मार्ग, वसन्त कुर्ग, नई दिल्ली-110070

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

(A Statutory Body of the Govt. of India)  
(Ministry of Human Resource Development, Govt. of India)  
Nelson Mandela Marg, Vasant Kunj, New Delhi-110070

Col. B. Venkat  
Director (FDC)  
E-mail: [director.fdc@aicte-india.org](mailto:director.fdc@aicte-india.org)  
Mob. No. 8130255472

14 Sept 2020  
Dr. Vashu Raj

**Sub:-For information of AICTE approved institutes which have received grants for conducting STTP's/FDP's under AQIS 2019-20.**

Sir,

This is in reference to grants released by AICTE under AQIS 2019-20 for conduct of STTP's/FDP's. It is being observed that due to present circumstances of ongoing pandemic of COVID-19, most of Institutes are facing difficulties in organizing and conducting STTP's. This office has received a number of requests from various institute to allow on line method of conducting STTP/FDP to complete their commitments.

In this regard, it is to inform that all such institutes, which have already received grants for conducting STTP's/FDP's through prevailing contact mode, are **allowed to conduct STTP's through online mode subject to following conditions:**

- (i) The Institute will be allowed to adjust the grants received for STTP at following rates:

a.	Honorarium for Coordinator	Rs. 5000.00
b.	Honorarium to experts	Rs. 75000.00
c.	Provision for payment to lab attendant engaged during lab practices	Rs. 3000.00
d.	miscellaneous charge	Rs. 10000.00
<b>Total for each STTP's</b>		<b>Rs. 93000.00</b>

- (ii) The Institute will conduct more than one STTP's in multiples of Rs. 93000.00 within the total grant received by it and shall return the balance unspent amount to AICTE.





e.g.

if an Institute has received grant for STTP	Rs. 3,00,000.00
Cost of three STTP	3x93000 = Rs. 279000.00
<b>Balance</b>	<b>= Rs. 21,000.00</b>

The institute will return the balance unspent amount of Rs.21,000.00 alongwith interest earned on such amounts to AICTE while submitting UC for adjustment of accounts for keeping its eligibility for receiving grants, in next AQIS.

- (iii) The institute will conduct all three STTP's as explained above on the same topic which has been approved by AICTE while releasing the grants.
- (iv) Firm dates for each program will be intimated to AICTE beforehand.

On similar lines FDP (02 week program) to be conducted online has the following approval totaling to Rs. 1,86,000.00.

a.	Honorarium for Coordinator	Rs. 5000.00
b.	Honorarium to experts	Rs. 1,68,000.00
c.	Provision for payment to lab attendant engaged during lab practices.	Rs. 3000.00
d.	miscellaneous charge	Rs. 10000.00
	<b>Total for each FDPs</b>	<b>Rs. 1,86,000.00</b>

The conducting of FDP's (two weeks program) shall be subjected to the similar conditions (i) to (iv) given above for conduct STTP courses, except rates of Honorarium to experts.

You are requested to acknowledge receipt of above guidelines and convey your consent if your institute is ready for conducting the STTP through online format on conditions explained above.

**It is once again reiterated that online conduct of FDP & STTP will be on explicit permission of AICTE.**

This provision is valid only till 31 Dec 2020.

14 Sept  
Yours sincerely,  
Director (FDC)



## REGISTRATION

AICTE

Sponsored Online

**SIX DAYS SHORT TERM TRAINING PROGRAMME  
ON "SECURE DATA OPTIMIZATION IN IOT USING  
GNU RADIO COMPANION AND USRP**

### Registration Details

Registration Forms and other relevant instructions/updates can be downloaded using the following link or by scanning the QR code



No Registration Fee

<https://forms.gle/aLnXrbtXRawSpvLK8>

PARTICIPANT CAN REGISTER IN ANY ONE SLOT

### Contact us

Coordinator : 98845 20525

Co-Coordinator's : 94428 17759, 99650 53656

E-mail : [eecece.org@gmail.com](mailto:eecece.org@gmail.com)

### Important Dates

SLOT	I	II	III
Registration Ends	10.11.20	08.12.20	10.01.21
Intimation of Selection	12.11.20	10.12.20	12.01.21

### Eligibility of Registration

Faculty Members and Research Scholars from AICTE approved Institutions, Persons from Government and Industry are eligible to attend the Programme.

## ORGANIZING COMMITTEE

### Chief Patrons

**Prof. Dr. A.K. Natesan**

Hon. Chairman, Excel Group Institutions

**Dr. N. Mathan Karthick**

Vice-Chairman, Excel Group Institutions

### Patrons

**Dr. K. Bommanna Raja**

Principal, Excel Engineering College

Executive Director, Excel Technical Campus

**Dr. D. Devakumar**

Director (IRRP), Excel Group Institutions

### Conveners

**Dr. R. Nallusamy**

Director (Administration), Excel Engineering College

### Project Monitoring Committee

**Dr. S. Anbukaruppusamy**

Professor & Head / ECE

**Dr. C. Karthikeyini**

Professor, Head - IQAC & Accreditation

**Dr. N. Nandhagopal**

Subject Expert, Associate Professor / ECE

### Programme Coordinator

**Dr. A. Vasantharaj, Associate Professor / ECE**

### Co-Coordination

**Prof. R. Pushpavathi / ECE**

**Prof. V.M. Jeevitha / ECE**

**Prof. S. Theivanyasakti / ECE**

**Prof. S. Arunodhaya / ECE**

**Prof. M. Ramya / ECE**

**Prof. M. Tamilarasi / ECE**

**Prof. R. Kandasamy / ECE**

AICTE

Sponsored Online

**SIX DAYS SHORT TERM TRAINING PROGRAMME  
ON "SECURE DATA OPTIMIZATION IN IOT USING  
GNU RADIO COMPANION AND USRP**

**16.11.2020 to 21.11.2020  
14.12.2020 to 19.12.2020  
18.01.2021 to 23.01.2021**



Organized by

Department of Electronics and Communication Engineering

**Excel  
ENGINEERING COLLEGE**

(AUTONOMOUS)

Approved by AICTE, New Delhi. For Further Enquiries, Contact : 94428 17759, 99650 53656

NH-544, Komarapalayam Tk., Namakkal Dt., TN

[www.excelinstitutions.com](http://www.excelinstitutions.com)







#### ABOUT THE AECIE - STTP

The purpose of AECIE plus Continuing course programmes of technical education including testing and research in Engineering, Technology, Architecture, Town Planning, Management, Planning, Applied Arts and Crafts, Rural Development and Clothing Technology etc. at different levels.

Short Term Testing Program (STTP) intends to conduct theory testing through extended assistance from AECIE to enable faculty members in the field of technical education to improve and learn techniques that can help prepare students for action and successful participants in a knowledge society.

#### ABOUT THE COLLEGE

Excel Engineering College (Autonomous) offers 11 B.E. programs, 6 P.E. programs and 3 P.H.E. programs. The college is approved by AECIE, New Delhi, Government of India, Government of Karnataka, Government of Andhra Pradesh, Government of Gujarat, Government of Haryana, Government of Madhya Pradesh, Government of Maharashtra, Government of Odisha, Government of Punjab, Government of Rajasthan, Government of Tamil Nadu, Government of Uttar Pradesh, Government of West Bengal, Government of Jammu & Kashmir, Government of Himachal Pradesh, Government of Arunachal Pradesh, Government of Nagaland, Government of Manipur, Government of Mizoram, Government of Tripura, Government of Meghalaya, Government of Assam, Government of Sikkim, Government of Ladakh, Government of Jharkhand, Government of Chhattisgarh, Government of Bihar, Government of Uttaranchal, Government of Uttarakhand, Government of Himachal Pradesh, Government of Punjab, Government of Haryana, Government of Rajasthan, Government of Gujarat, Government of Maharashtra, Government of Karnataka, Government of Andhra Pradesh, Government of Odisha, Government of West Bengal, Government of Jammu & Kashmir, Government of Himachal Pradesh, Government of Arunachal Pradesh, Government of Nagaland, Government of Manipur, Government of Mizoram, Government of Tripura, Government of Meghalaya, Government of Assam, Government of Sikkim, Government of Ladakh, Government of Jharkhand, Government of Chhattisgarh, Government of Bihar, Government of Uttaranchal, Government of Uttarakhand.

#### ABOUT THE DEPARTMENT

The Department of Electronics and Communication Engineering was established in the year of 2007 with 86 teachers of 120, PG in Applied Electronics was established in the year 2012 with teachers of 18 and Officers P.A.B. in the year 2012 with teachers of 18 and Officers P.A.B. Program in Information & Communication Engineering and approved to Autonomous Status in the year of 2012. The Department is accredited by NBA & NAAC A+ with state of A1 Infrastructure facilities. The Department has 12 Laboratories for Electronics and Research Contribution to Students and Staff Community. It has Centre of excellence in VLSI & Nanotechnology Laboratory with 12 Workbench setups. There are 6 PABs Staff Supervising 20 PAB Scholars in various fields of Experts.

#### ABOUT THE STTP

GNU Radio is a free & open-source software development toolkit that provides signal processing blocks to implement software radios. It can be used with readily-available low-cost external RF hardware to create software-defined radios, or without hardware in a simulation-like environment. It is widely used in hobbyist, academic and commercial environments to support both wireless communications research and real-world radio systems.

GNU Radio Companion a graphical user interface similar to Simulink. It allows you to create signal processing applications by drag-and-drop.

GNU Radio comes with a set of ready-to-use tools and utility programs. These serve to manage the most basic operations, such as recording RF signals and performing spectrum analysis.

Universal Software Radio Peripheral (USRP) is a range of software-defined radios. USRP product family is intended to be a comparatively inexpensive hardware platform for software radio, and is commonly used by research labs, universities, and hobbyists. Most USRPs connect to a host computer through a high-speed link, which the host-based software uses to control the USRP hardware and transmit/receive data.

#### TOPICS TO BE COVERED BUT NOT WIDE RATION

- Wireless Communication
- Information Theoretic Security
- Network Security
- Communication Networks
- Cognitive Radio Networks
- Software Defined Radio Networks
- Mobile Communication
- Wireless Sensor Networks
- Data Security
- Simulation of GNU Radio Companion
- Introduction of USRP

#### RESOURCE PERSONS

The STTP course content will be delivered by Subject Experts from prestigious academic institutions.

#### NOTE

An online test will be conducted at the end of the program and E-certificates will be issued only to the participants who have attended the program with 100% Attendance and have qualified 60 % in the test. Registration is based on the merit and first come first serve basis.





# Excel Engineering College

(AUTONOMOUS)

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai NH-544,  
Komarapalayam TK., Namakkal Dt., TN

www.excelinstitutions.com



AICTE SPONSORED SIX DAYS ONLINE SHORT TERM TRAINING PROGRAMME ON

## SECURE DATA OPTIMIZATION IN IOT USING GNU RADIO COMPANION AND USRP

### Session I

10.00 AM to 12.00 PM

### Session II

02.00 PM to 04.00 PM



Monday

**Dr. D. Lakshmi,**

Educational Research Officer & Associate Professor

B V Raje Institute of Technology  
Introduction to IoT



**Dr. Vetrivelan Pandu, PhD,**

Head of the Department (HoD) ECE,  
Vellore Institute of Technology(VIT),  
Chennai.

IoT Landscapes, Challenges &  
Solutions to Real World Problems

Tuesday

17.11.2020

**Dr. S. Lakshmi,**

IoT using TinkerCAD in  
Virtual Platform

**Dr. Vetrivelan Pandu,**

Head of the Department (HoD)

IoT Emulations in Contiki

wednesday

18.11.2020

**Dr. S. Udhayakumar,**

Professor in Saranya Institute of  
Medical and Technical Sciences, Chennai.  
IoT Cloud Security



**Dr. K. Saravanan,**

Professor/ Computer Science and Engineering,  
Sharda Women's College of Engineering and  
Technology, Hyderabad.

Overview of Security  
Issues in IoT

Thursday

19.11.2020

**Dr. T.P. Anithaashri,**

Associate Professor and HOD,  
Department of Cloud Computing,  
Institute of MCA, Saranya School of Engineering, Chennai.  
Role of AI in IOT Security  
Applications



**MR. VADIVELAN.VS**

SECURITY PROFESSIONAL,  
ZYKRA TECHNOLOGIES PVT. LTD, CHENNAI.

Security from hacker's  
Perspective

Friday

20.11.2020

**Dr. V. Balaji,**

Associate Professor, Saranya School of Engineering,  
Chennai.

Demystifying 5G New Radio  
followed by a Demo on GNU Radio



**Mr. K. Mahendran,**

Senior Software Engineer, Saranya School of Engineering,  
Chennai.  
Demonstration of Sending IoT Gateway  
and Data Monitoring from Cloud

**Dr. S. Sankara Gomathi,**

Associate Professor, Saranya School of Engineering,  
Chennai.  
Mobile Ad Hoc Network  
and Information Security



**Mr. K. Mahendran,**

Senior Software Engineer, Saranya School of Engineering,  
Chennai.



**INSTITUTION'S  
INNOVATION  
COUNCIL**  
(Delivery of R&D initiative)





# Excel Engineering College

(AUTONOMOUS)

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai NH-544,  
Kumarapalayam TK., Namakkal Dt., TN

[www.excelinstitutions.com](http://www.excelinstitutions.com)



## AICTE SPONSORED SIX DAYS ONLINE SHORT TERM TRAINING PROGRAMME ON SECURE DATA OPTIMIZATION IN IOT USING GNU RADIO COMPANION AND USRP SLOT II

### Session I

10.00 AM to 12.00 PM

### Session II

02.00 PM to 04.00 PM

Monday 12/12/2020		<b>Dr D. Vinod,</b> Information Security		<b>Dr M. Geetha</b> Data Security & Healthcare Privacy
Tuesday 15/12/2020		<b>Dr D. Lakshmi,</b> Overview of IoT		<b>Dr A. R. Kavitha,</b> Industrial Automation in IoT
Wednesday 16/12/2020		<b>Dr D. Lakshmi,</b> IoT using TinkerCAD in Virtual Platform		<b>Dr B. Amutha,</b> SDN Architectures
Thursday 17/12/2020		<b>Mr A. Manimaran,</b> Introduction to 5G Technology		<b>Mr A. Manimaran,</b> NI Communication Suite with GNU Radio Companion
Friday 18/12/2020		<b>Dr Ferdin Joe John Joseph,</b> IoT for Smart Agriculture		<b>Dr B. Amutha</b> Mininet
Saturday 19/12/2020		<b>Mr A. Manimaran</b> NI USRP		<b>Mr A. Manimaran</b> NI USRP & SDR



**INSTITUTION'S  
INNOVATION  
COUNCIL**  
(Committee of NRI Institutions)





# Excel ENGINEERING COLLEGE (AUTONOMOUS)



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## AICTE SPONSORED SIX DAYS ONLINE SHORT TERM TRAINING PROGRAMME ON SECURE DATA OPTIMIZATION IN IOT USING GNU RADIO COMPANION AND USRP SLOT-III

**SESSION I**  
10.00 AM TO 12.00 PM

**SESSION II**  
02.00 PM TO 04.00 PM

**MONDAY**  
18.01.2021



**DR. D. KAVITHA,**  
ASSISTANT PROFESSOR,  
DEPARTMENT OF CSE,  
SRM VALLIAMMAI ENGG  
COLLEGE, KANCHIPURAM.  
TOPIC: SECURITY IN IOMT AND  
ITS APPLICATION.



**DR. G. REVATHY,**  
ASSISTANT PROFESSOR,  
DEPARTMENT OF CSE,  
ERODE SENGUNTHAR ENGG.  
COLLEGE AUTONOMOUS,  
ERODE.  
TOPIC: ROLE OF AI IN IOT

**TUESDAY**  
19.01.2021



**DR. S. MAHESWARAN,**  
ASSOCIATE PROFESSOR,  
DEPARTMENT OF ECE,  
KONGU ENGG COLLEGE,  
ERODE.  
TOPIC: IOT IN COMMUNICATION  
TECHNOLOGY.



**DR. A. ATHIF SHAH,**  
CHAIRMAN AND MANAGING DIRECTOR  
ABE SEMICONDUCTOR DESIGN,  
CHENNAI.  
TOPIC: INDUSTRIAL AUTOMATION  
IN IOT

**WEDNESDAY**  
20.01.2021



**MR. G. NAGARAJAN,**  
SENIOR APPLICATION ENGINEER,  
VI SOLUTIONS,  
BANGALORE.  
TOPIC: INTRO TO 5G USING LABVIEW.



**MR. G. NAGARAJAN,**  
SENIOR APPLICATION ENGINEER,  
VI SOLUTIONS,  
BANGALORE.  
TOPIC: DIGITAL COMMUNICATION METHODS  
ON NI LABVIEW.

**THURSDAY**  
21.01.2021



**MR. A. MANIMARAN,**  
ASSISTANT MANAGER,  
VI SOLUTIONS,  
BANGALORE.  
TOPIC: NI COMMUNICATION SUITE WITH  
GNU RADIO COMPANION.



**MR. A. MANIMARAN,**  
ASSISTANT MANAGER,  
VI SOLUTIONS,  
BANGALORE.  
TOPIC: NI USRP.

**FRIDAY**  
22.01.2021



**DR. S. SANKARA GOMATHI,**  
PROFESSOR & DEAN,  
DEPT. OF ECE,  
ADHI COLLEGE OF ENGG & TECH,  
CHENNAI.  
TOPIC: DEMONSTRATION OF REACTIVE  
ROUTING PROTOCOL S-PROTOCOL  
TRADEOFF OF WIRELESS AD HOC NETWORK.



**DR. D. BALAMURUGAN**  
ASSOCIATE PROFESSOR,  
DEPARTMENT OF CSE,  
SONA COLLEGE OF TECHNOLOGY,  
SALEM.  
TOPIC: NETWORK SECURITY IN IOT.

**SATURDAY**  
23.01.2021



**DR. S. CHANDRASEKARAN,**  
RETD. PROFESSOR,  
DEPT. OF COMPUTER SCIENCE  
AND INFORMATION TECHNOLOGY.  
TOPIC: COGNITIVE RADIO NETWORKS.



**DR. S. SANKARA GOMATHI,**  
PROFESSOR & DEAN,  
DEPT. OF ECE,  
ADHI COLLEGE OF ENGG & TECH,  
CHENNAI.  
TOPIC: CYBER SECURITY MODERN  
ENCRYPTION ALGORITHMS.



**INSTITUTION'S  
INNOVATION  
COUNCIL**  
University of 100 Institutions



...person  
...by a ...  
...on the way to a plot owned  
...to remove ...  
...here ...  
...office near ...  
...Salem ...  
...staged a road ...  
...currently abled persons



bre  
VIII 19

The Anguilla police have booked seven persons under Section of the Arms Act in connection with a seizure of country-made rifle and

matation and parts of rifle by the Forest Department from a house at Semasudi in May last year. The accused were arrested and remanded in judicial custody for the wildlife offence.

to replace whiteboards and marker pens, which were funded by Robert Bosch. The project particularly aimed at students of Classes X, XI and XII, who are preparing for the public examinations through online classes, as schools remain closed amid the COVID-19 pandemic, according to the release.

Official search, and each

School, Vagamonparambalam,  
 Government Higher Sec-  
 ondary School, Ganapathy,  
 Government Higher Sec-  
 ondary School, Vellamudi,  
 Government Higher  
 Secondary School, Velu-  
 nar, Government Higher Se-  
 condary School, Kalapatti,  
 Government High School,  
 Gandhimanagar, and Gov-  
 ernment High School,  
 Kumbakonam, Vennalayam

### A Business Initiative

TECHNOLOGY BUSINESS INCUBATOR KONGU  
ENGINEERING COLLEGE



The Inaugural ceremony of the first year undergraduate streamlining classes for the academic year 2020-21 at Sona College of Technology was held at the College through virtual facilities made Sona Group Chairman Mr. Vallappa presided over the function which was held in the presence of the Vice Chairman of the College Mr. Chiruk Vallappa, Mr. Durgai Vallappa and Dr. Xavier Alphonsus, Principal, Loyola College, Christat was the Chief guest at the function. College Principal Dr. SRM Senthil Kumar welcomed all the invitees at the function. During the program a few eminent first year students and their parents started the ceremony by lighting Kathavilakku along with management. The Vice-Chairman of the College stressed that Sona College is willing to provide ample opportunities to the students and they should make full use of them effectively and become an eminent professional. Speaking on the occasion, the special guest said that self-confidence and perseverance are essential for the student not to lose their importance and uniqueness under any circumstances. He also added that Sona College was one of the top tier colleges in India and stated Sona's uniqueness as an excellent infrastructure, knowledgeable faculty, industry collaboration and research focus. Mr. Vallappa, Chairman, Sona Group of Institutions congratulated for choosing business career and wished the students to excel in their profession by focusing on their studies during this important pandemic period of their lives. In the program professors and heads of departments were introduced. Guidelines for students, scholarships and other facilities available in campus were discussed. The function was wrapped by the principals of Sona Group Institutions Principals, Dr. Karthikeyan, Dr. Kadarniswar, professors and parents of the students participated through the online mode.



**R**aised Rs 20 lakh grant a venture sanctioned by Young Innovators (YI) Kodaikattel, Thiruvannamalai District, Mr K P Rajagopal, Chairman, Mr M S Vijaya (Kannan, Chennai) and Mr. Sree Kannappa, (Bangalore) have been selected by TECHNOLGY BUSINESS INNOVATION TRUST (TBI) KONGU ENGINEERING COLLEGE (TUEK) for a sanction of Rs 20 lakh to grant the following ideas into prototypes in emerging technology areas. Thiru P. S. Chandrasekaran, Correspondent, KUE said Dr V. Halaraju, Principal, KUE, discussed the selection of YI and Grants to the beneficiaries in a function held at TBI, Kongu Engineering College, Perundurai on 04 October 2020, Monday. This funding assistance has been provided under the PRAYAS (Promoting and Accelerating Young and Aspiring innovators & Start-ups) scheme which has been sanctioned by the Department of Science and Technology Government of India (DST, Govt) under the National Initiative for Developing and Empowering Innovations (NIDeE) programme. DST provided a grant of Rs 1 Crore for the establishment of PRAYAS PAR (consisting of 3D printer & scanner, CNC Router & Lathe, PCB Milling Machine, SMT Pick & Place Machine, PCB Printer etc., and FAS center grid) to support young aspiring entrepreneurs/students, graduates and early stage start-ups with innovative, technically feasible and commercially viable ideas addressing the needs of the society. Under this scheme, a maximum of Rs 10 lakh grant can be availed per project. Rs 10 lakh have been sanctioned to 21 innovators (including three women innovators) so far by TBI/KUE.

CARMEL SCHOOL MOBILE MADE SHORT FILM SETS  
INSPIRING TREND ON EDUCATION

**E**ased Engineering College (Autonomous), Department of ECE, hosted an AICTE Sponsored Online/On Days Short Term Training Programme on "SECURE DATA OPTIMIZATION IN IOT USING GNU RADIO, ZEPHYRUS AND USRP". Dr. K. Balamurugan Raja, Principal, delivered the inaugural address of delegates and the schedule of STTP. Dr. S. Arunkumarappan, HOD/ECE presented the welcome speech to the subject experts and the participants, the Guest Speakers are Dr. D. Lakshmi, Educational research officer, Vishnu Educational Development and Innovation Centre (VEDIC), Dr. Vetrivelan, P.anda, HOD of ECE, Yelken Institute of Technology (VIT), Chennai, Dr. K. SARAVANAN, Professor Computer Science and Engineering, Shaan University's College of Engineering and Technology, Hyderabad; Dr. S. DRAYAKUMAR, Professor, Savitribai Devi of Engineering, Savitribai Institute of Medical and Technical Sciences, Chennai. Dr. J.P. ANTHANATHAN, Associate Professor and HOD, Department of Innovative Information Systems of SSN, Saavela School of Engineering, Chennai, Mr. VALJIT A.S. VS, Security Professional Organized By Zstack Technologies Pvt. Ltd., Chennai, DEVALAJI Founder & Managing Partner, Techno Research Services Private Limited, Coimbatore, Mr. MAHENDRAN, Manager, Project Base Electronics, Chennai, Dr. SSANAKARA GOMATHI, Professor & Dean, Dept. of ECE, Adin College of Engineering & Technology, Chennai, Mr. K. MAHENDRAN, Manager, Project Base Electronics. Chennai delivered the content by 12 sessions in online mode throughout six days.

A mobile made and edited short film, titled "IGNITE" sets new trends during Covid-19 educational scenarios. The short film was made by Carmel Marcelliano Jr. Sec. School and was released in its YouTube



child moves back and forth, by storing what they remember from their studies. All others are from Kerala and except Ms. Geetha Mathew who is studying in 8 standard of the institution. This can be interpreted as an awareness in learning among the students even during the Covid-19 pandemic season. It is interesting to note that the Kinder Garden faculty member along with Fr. Thomas Cherian CMI, Manager, Dr. Annie Pharmacides CMI, Principal, Rev. Fr. Frjo Chittilappilly CMI, Administrator also lead the children with the lamps at the final service. Current KG has presented this seven 'Medita Edoed' short film to inspire students at the time of Covid-19 pandemic. Fr. Dr. Annie Pharmacides CMI, Principal.





# Excel

Engineering College (Autonomous)

Komarpalayam, Namakkal, TN - 637303

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION  
(AICTE)  
Under AQIS Scheme



## CERTIFICATE OF APPRECIATION

This is to certify that Dr/Mr/Mrs/Ms. \_\_\_\_\_

of \_\_\_\_\_

has successfully completed

the AICTE Sponsored Six Days Online Short Term Training Programme on "SECURE DATA OPTIMIZATION IN IOT USING GNU RADIO COMPANION AND USRP" held from 16.11.2020 to 21.11.2020 organized by the Department of Electronics and Communication Engineering.

COORDINATOR

PROJECT MONITORING COMMITTEE

PRINCIPAL



## **7. Report of the STTP**

I am very happy to present the report of AICTE Sponsored Online Six Days Short Term Training Programme on "Secure Data Optimization in IoT Using GNU Radio Companion and USRP" organized by Department of Electronics and Communication Engineering, Excel Engineering College (Autonomous) The STTP was organized with the objective of quality improvement in technical field to reach all the academicians and research scholars.

With the encouragement and support from management, Principal, HoD, the assistance from the staff coordinator's and my colleagues, it was possible for us to make all arrangements for the smooth and successful conduct of this STTP. I hope that the fruit of this programme will reach all the participants and academicians in the AICTE approved institutions.

Call letters were sent to various AICTE approved institutions, universities all over India through e-mail and whatsapp. More than 40 participants from 20 colleges, universities and other organizations responded and participated in the training programme. The programme had twelve plenary sessions where twelve lectures were delivered by eminent personalities of various capacities in the training programme.

In the Inaugural session, began at 09.45am Dr S.Anbukarrupusamy, HoD/ECE welcomed the gathering and introduced the chief guest. Our Principal Dr K.Bommanna Raja presided over the inaugural function.

During the first session, our chief speaker Dr D.Lakshmi, gave a talk on "overview of IoT".

During the second session, our chief speaker Dr Vetrivelan Pandu, gave a lecture on "IoT Landscapes, Challenges & Solutions to the real world problems".

During the third Session, our chief speaker Dr D.Lakshmi, gave a talk on "IoT using TinkerCAD in Virtual Platform".

During the fourth session, our chief speaker Dr Vetrivelan Pandu, gave a lecture on "IoT Emulations in contiki".



During the fifth session, our chief speaker Dr S.Udhayakumar, delivered a lecture on "IoT Cloud Security".

During the Sixth session, our chief speaker Dr K.Saravannan, delivered a lecture on "Overview of Security Issues in IoT".

During the Seventh session, our chief speaker Dr T.P.Anithaashri, delivered a lecture on "Role of AI in IoT Security Applications".

During the eighth session, our chief speaker Mr Vs Vadivelan gave a lecture on "Security from Hacker's Perspective".

During the ninth session, our chief speaker Dr V.Balaji gave a lecture on "Demystifying 5G New Radio Followed by demo on GNU Radio".

During the tenth session, our chief speaker Mr K.Mahendran, delivered a lecture on "Demonstration of Sensing, IoT Gateway and Data monitoring from Cloud".

During the eleventh session, our chief speaker Dr S.Sankara Gomathi, delivered a lecture on "Mobile Ad Hoc Network and Information Security".

During the twelfth session, our chief speaker Mr K.Mahendran, delivered a lecture on "Data Security Software Model".

The Valedictory Session began at 4.00 pm, participants filled the feedback link and a test has been conducted to verify the quality of this training programme. The Vote of thanks was delivered by Dr A.Vasantharaj, Associate Professor / Department of ECE.

**Dr A.Vasantharaj**

Coordinator,

Associate Professor,

Department of Electronics and Communication Engineering,

Excel Engineering College (Autonomous),

Namakkal.



**PROCEEDINGS OF THE  
SIX DAYS ONLINE SHORT TERM TRAINING PROGRAMME**

**On**

**SECURE DATA OPTIMIZATION IN IOT USING GNU RADIO  
COMPANION AND USRP**

**SLOT-II**

**Sponsored by**



**ALL INDIA COUNCIL FOR TECHNICAL EDUCATION, New Delhi**

**14<sup>th</sup> December - 19<sup>th</sup> December 2020**

**VOL - II**



**Organized by**



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**EXCEL ENGINEERING COLLEGE (Autonomous)**

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

Accredited by NBA, NAAC with "A" and Recognised by UGC (2f & 12B)

KOMARAPALAYAM - 637303, [www.excelinstitutions.com](http://www.excelinstitutions.com)

978-93-5437-243-2





## 7. Report of the STTP

I am very happy to present the report of AICTE Sponsored Online Six Days Short Term Training Programme Slot II on "Secure Data Optimization in IoT Using GNU Radio Companion and USRP" organized by Department of Electronics and Communication Engineering, Excel Engineering College (Autonomous). The STTP was organized with the objective of quality improvement in technical field to reach all the academicians and research scholars.

With the encouragement and support from management, Principal, HoD, the assistance from the staff coordinator's and my colleagues, it was possible for us to make all arrangements for the smooth and successful conduct of this STTP. I hope that the fruit of this programme will reach all the participants and academicians in the AICTE approved institutions.

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During the second session, our chief speaker Dr M.Geetha, gave a lecture on "Data Secure & Healthcare Privacy".

During the third Session, our chief speaker Dr D.Lakshmi, gave a talk on "Overview of IoT".

During the fourth session, our chief speaker Dr A.R.Kavitha, gave a lecture on "Industrial Automation in IoT".

During the fifth session, our chief speaker Dr D.Lakshmi, delivered a lecture on "IoT using TinkerCAD in virtual Platform".

During the Sixth session, our chief speaker Dr B.Amutha, delivered a lecture on "SDN Architectures".

During the Seventh session, our chief speaker Mr A.Manimaran, delivered a lecture on "Introduction to 5G".

During the eighth session, our chief speaker Mr A.Manimaran, gave a lecture on "NI Communication Suite with GNU Radio Companion".



During the ninth session, our chief speaker Dr Ferdin Joe John Joseph gave a lecture on "IoT in Smart Agriculture".

During the tenth session, our chief speaker Dr B.Amutha, delivered a lecture on "Mininet".

During the eleventh session, our chief speaker Mr A.Manimaran, delivered a lecture on "NI USRP".

During the twelfth session, our chief speaker Mr A.Manimaran, delivered a lecture on "NI USRP as SDR".

The Valedictory Session began at 4.00 pm , participants filled the feedback link and a test has been conducted to verify the quality of this training programme. The Vote of thanks was delivered by Dr A.Vasantharaj, Associate Professor / Department of ECE.



Dr A. Vasantharaj  
Coordinator,  
Associate Professor,  
Department of Electronics and  
Communication Engineering,  
Excel Engineering College (Autonomous),  
Namakkal.



PROCEEDINGS OF THE  
SIX DAYS ONLINE SHORT TERM TRAINING PROGRAMME

On

SECURE DATA OPTIMIZATION IN IOT USING GNU RADIO COMPANION AND USRP  
SLOT-III

Sponsored by



ALL INDIA COUNCIL FOR TECHNICAL EDUCATION, New Delhi  
18<sup>th</sup> January - 23<sup>th</sup> January 2021  
VOL - III



Organized by

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

EXCEL ENGINEERING COLLEGE (Autonomous)

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

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## 7. Report of the STTP

I am very happy to present the report of AICTE Sponsored Online Six Days Short Term Training Programme Slot III on "Secure Data Optimization in IoT Using GNU Radio Companion and USRP" organized by Department of Electronics and Communication Engineering, Excel Engineering College (Autonomous). The STTP was organized with the objective of quality improvement in technical field to reach all the academicians and research scholars.

With the encouragement and support from management, Principal, HoD, the assistance from the staff coordinator's and my colleagues, it was possible for us to make all arrangements for the smooth and successful conduct of this STTP. I hope that the fruit of this programme will reach all the participants and academicians in the AICTE approved institutions.

Call letters were sent to various AICTE approved institutions, universities all over India through e-mail and whatsapp. More than 90 participants from 40 colleges, universities and other organizations responded and participated in the training programme. The programme had twelve plenary sessions where twelve lectures were delivered by eminent personalities of various capacities in the training programme.

In the Inaugural session, began at 09.45am Dr S.Anbukarrupusamy, HoD/ECE welcomed the gathering and introduced the chief guest. Our Principal Dr K.Bommanna Raja presided over the inaugural function.

During the first session, our chief speaker Dr D.Kavitha gave a talk on "Security of IoMT and its applications".

During the second session, our chief speaker Dr G.Revathy, gave a lecture on "Role of AI in IoT".

During the third Session, our chief speaker Dr S.Mahewaran, gave a talk on "IoT in Communication Technology".

During the fourth session, our chief speaker Dr A.Athif Shah, gave a lecture on "Industrial Automation in IoT".

During the fifth and sixth session, our chief speaker Mr G.Nagarajan, delivered a lecture on "Introduction to 5G using LabView & Digital communication methods on NI LabView".

During the Seventh & Eighth session, our chief speaker Mr A. Manimaran, delivered a lecture on "NI communication suite with GNU radio companion & NI USRP".

During the ninth session, our chief speaker Dr S.SankaraGomathy, delivered a lecture on "Demonstration of Reactive Routing Protocols- Protocol Tradeoff of wireless Ad Hoc Network".



During the tenth session, our chief speaker Dr D.Balamurugan, gave a lecture on "Network Security in IoT".

During the eleventh session, our chief speaker Dr S.Chandrasekaran gave a lecture on "Cognitive Radio Network".

During the twelfth session, our chief speaker Dr S.SankaraGomathy, delivered a lecture on "Cyber security – modern Encryption Algorithms".

The Valedictory Session began at 4.00 pm , participants filled the feedback link and a test has been conducted to verify the quality of this training programme. The Vote of thanks was delivered by Dr A.Vasantharaj, Associate Professor / Department of ECE.



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