SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi / Affiliated to Anna University, Chennai / Accredited by NAAC & NBA)

(An Autonomous Institution)

Dindigul – Palani Highway, Dindigul 624 002

INTERNAL QUALITY ASSURANCE CELL - IQAC

Department Of Electronics and Communication Engineering

Abstract on the Department Level Data

Academic Year: 2025 -26 **Semester: ODD**

S. No	Details	Count
1	Faculty Count	16
2	No. of Non-Teaching Faculty	4
3	No. of Doctorates	4
4	No. of Faculty Pursuing Ph.D.,	13
5	No. of Research Supervisor	1
6	Total No. of Publications	10
7	No. of Events Organized	4
8	No. of VAC Offered	5
9	No. of Industrial Visit made	3
10	No. of Active MoUs	2
11	No. of Events in which students participated in outside Institutions	6
12	No. of the Faculty with FDP Participation (5 Days)	13

PRINCIPAL

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Department of Electronics and Communication Engineering

Faculty Publications

(All Peer – Reviewed Journals from 2025 June to Till Now)

Academic Year: 2025 -26 **Semester: ODD**

S. No	Name of the Faculty	No. of Publications
1	Dr. S. Karthigailakshmi	1
2	Dr. R. Carol Praveen	3
3	Mr. V. P. Jay Fantin	1
4	Mr. J. Vetri ManiKumar	1
5	Mrs. R. Sudha	1
6	Mrs. G. Raja Rajeswari	2
7	Mrs. K. Moniga	1
8	Mrs. P. Karthika	1
9	Mrs. S. Keerthana	1

List of Publications in APA Style:

1. Rajarajeshwari, G., & Karthigai Lakshmi, S. (2025). Approximate multiplier for image masking based on image multiplication. *International Journal for Research in Applied Science & Engineering Technology (IJRASET)*. https://doi.org/10.22214/ijraset.2025.73609
2. Carol Praveen, R., Kasthuri Rengen, P., & Francis, D. (2025). Hybrid fractal ConvXGBNet for brain tumor classification with log-cosh dice loss–cascaded V-Net based segmentation based on MRI images. *European Spine Journal*. https://doi.org/10.1007/s00586-025-09606-1
3. Carol Praveen, R., & Vetrimanikumar, J. (2025). Brain tumor detection using backpropagation learning of differential features from CT inputs. *International Information and Engineering Technology Association*. https://www.iieta.org/journals/isi
4. Carol Praveen, R. (2025). Advanced graphene-based AI-guided multilayered metasurface sensor for high-sensitivity terahertz brain tumor diagnosis in liquid biopsy. *Journal of The Electrochemical Society*. https://jes.ecsdl.org/

5. Fantin, V. P. J. (2025). Design of low-voltage CMOS imagery chip for enhanced vision restoration in subretinal prosthesis. *IETE Journal of Research.* https://www.tandfonline.com/loi/ijiet20
6. Sudha, R., & Premkumar, M. (2025). Securing wireless sensor networks: A survey of challenges and innovations. *Franklin Open, 100470.* https://www.sciencedirect.com/journal/franklin-open
7. Rajarajeshwari, G. (2025). An ultra-low-power and adaptive approximate multiplier. *International Journal of Engineering Innovations and Management Strategies.* https://publisher-site.org
8. Moniga, K., & Premkumar, M. (2025). Revolutionizing patient care with biomedical robotics in modern healthcare. In *BioMed Bots Assurance* (pp. 137–162). CRC Press. https://www.crcpress.com/
9. Karthika, P., & Premkumar, M. (2025). An in-depth exploration of CNN-based deep learning models in cervical carcinoma analysis. *Advances in Biomarker Sciences and Technology.* https://publisher-site.org
10. Keerthana, S. (2025). Sense light: Enhancing plant care with sensor integration and optical wireless communication for energy-efficient continuous monitoring in indoor environments. https://publisher-site.org

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Department Of Electronics and Communication Engineering

Departmental Events

Academic Year: 2025 -26 **Semester: ODD**

S. No	Date	Event Details
1	23.07.2025	Career Insights & Experiences from ECE Alumni
2	29.08.2025	Future Ready Tech : Alumni Insights on Emerging trends and it Practices
3	24.09.2025	AI at the Edge : Tiny ML and Embedded Intelligence for IoT Applications
4	28.10.2025	Design your Feature : Unlocking Career Paths

Glimpses of Events Details

DESIGN YOUR FUTURE: UNLOCKING CAREER PATHS

CAREER INSIGHTS & EXPERIENCES FROM ECE ALUMNI

AI at the Edge : Tiny ML and Embedded Intelligence for IoT Applications

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Department Of Electronics and Communication Engineering

Details of VAC Offered

Academic Year: 2025 -26 **Semester: ODD**

S. No	Class and Branch	Details of VAC offered	Period (Date: From – To)
1	II-ECE	PCB Design and Assembly	28.08.25 to 30.08.25 and 16.10.25 to 17.10.25
2	III-A-ECE	AI using MATLAB	28.07.2025 to 02.08.2025
3	III-B-ECE	Embedded Systems and IoT	28.07.2025to 02.08.2025
4	IV (Embedded Batch) -ECE	IoT and Embedded Systems Program	27.10.25 to 01.11.25
5	IV(VLSI Batch)-ECE	System Verilog and UVM	17.11.2025 to 21.11.2025

Glimpses of VAC Course

PCB Design and Assembly

IoT and Embedded SystemsProgram

System Verilog and UVM

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INTERNAL QUALITY ASSURANCE CELL - IQAC

Department Of Electronics and Communication Engineering

Details of Industrial Visits

Academic Year: 2025 -26 **Semester: ODD**

S. No	Class / Branch	Place of Visit	Date of Visit
1	II ECE	Quatek, Madurai	26.07.2025
2	III ECE	Enthu Technology, Coimbatore	24.10.2025
3	IV ECE	Horticulture College and Centre of Excellence, Reddiyarchatram	09.09.2025 and 10.09.2025

Glimpses of the Industrial Visits

Industrial exposure of II ECE students at Quatek, Madurai held on 26.07.2025.

GPS Map Camera
Dharmathupatti, Tamil Nadu, India
Opp Aravinth Snaks Sidco Industrial Estate, Kappalur Shed No 104, Coimbatore Paper Products, Dharmathupatti, Tamil Nadu 625008, India
Lat 9.856006° Long 78.026169°
26/07/2025 11:32 AM GMT +05:30
Google

GPS Map Camera
Nilaiyur, Tamil Nadu, India
114, Bit 2, Nilaiyur, Tamil Nadu 625008, India
Lat 9.855978° Long 78.026143°
26/07/2025 12:06 PM GMT +05:30
Google

Industrial exposure of III ECE students at Enthu Technology, Coimbatore on 24.10.2025.

IV ECE students during an industrial visit to Horticulture College and Centre of Excellence, Reddiyarchatram on 09.09.2025 & 10.09.2025.

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INTERNAL QUALITY ASSURANCE CELL - IQAC

Department of Electronics and Communication Engineering

Details of Active MoUs

Academic Year: 2025 -26 **Semester: ODD**

S. No	MoU Signed Company - Details	Date of MoU Signed	Validity of MoU (Period)
1	QUATEK Technologies India Pvt Ltd,Madurai	25.07.2025	3 years
2	Gateway Software Solutions,Coimbatore	24.09.2025	3 years

Glimpses of MoU Signed ceremony

QUATEK Technologies India Pvt Ltd, Madurai

Gateway Software Solutions,Coimbatore

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INTERNAL QUALITY ASSURANCE CELL - IQAC

Department Of Electronics and Communication Engineering

Student Achievements (Excluding Sports)

Academic Year: 2025 -26 **Semester: ODD**

S. No	Name of the Student	Class / Branch	Details of Achievements (Other Institution Participation)
1	SHINEY ARO A	III B	Participated, Mangayarkarasi College of Engineering, Madurai.
2	SIVAGURUMUTHU S	III B	Participated, Mangayarkarasi College of Engineering, Madurai.
3	SIVAPRIYA A	III B	Participated, Mangayarkarasi College of Engineering, Madurai.
4	RITHANYA M	III B	Participated, Mangayarkarasi College of Engineering, Madurai.
5	SHREE GOPIKA B	III B	Participated, Sethu Institute of Technology, Viruthunagar
6	SIVA SUNDARI R U	III B	Participated, Sethu Institute of Technology, Viruthunagar
7	DIVYA J	III A	Participated, Sethu Institute of Technology, Viruthunagar
8	SAHUDA SUFFRIN M	III B	Participated, Karpagam Institute of Technology, Coimbatore
9	SARUBALA P	III B	Participated, Karpagam Institute of Technology, Coimbatore
10	SUMIREXALIN S	III B	Participated, Karpagam Institute of Technology, Coimbatore
11	RITHIKA S	III B	Participated, Karpagam Institute of Technology, Coimbatore
12	JEEVAPARASANA D	III A	Participated, Karpagam Institute of Technology, Coimbatore
13	KAVIBHARATHI B	III A	Participated, Karpagam Institute of Technology, Coimbatore
14	DHAGSHIM FATHIMA M	III A	Participated, Karpagam Institute of Technology, Coimbatore
15	DHARSHINI P	III A	Participated, Karpagam Institute of Technology, Coimbatore
16	DHARSHINI R	III A	Participated, Karpagam Institute of Technology, Coimbatore
17	ANUSUYA I	III A	Second Prize-Criminal Case, Sethu Institute of Technology, Viruthunagr.
18	NAVITHA SRI M	III A	Participated, PSG College of Technology,Coimbatore
19	NAVITHA SRI M	III A	Participated, Karpagam Institute of Technology, Coimbatore

20	NAVEENA M	III A	Participated, PSG College of Technology, Coimbatore
21	DHARSHINI P	III A	2 weeks summer Internship program on "Industrial Automation" , Siemens centre of Excellence, MIT campus , Anna university
22	DHAGSHIM FATHIMA M	III A	2 weeks summer Internship program on "Industrial Automation" , Siemens centre of Excellence, MIT campus , Anna university

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INTERNAL QUALITY ASSURANCE CELL - IQAC

Department Of Electronics and Communication Engineering

Faculty Achievements

Academic Year: 2025 -26 **Semester: ODD**

S. No	Name of the Faculty	Faculty Participation, Presentation (Conferences) / Industry Connect / Certifications / QIP / FDP (List all the achievement in the Odd Semester)
1	Dr. M. Manikandan	Selected for AICTE-Industry Fellowship programme(1 Year).
2	Dr.R.Carol Praveen	• I have attended 6 days national level Faculty Development Program on "Reconfigurable and Compact antennas: Enabling real time solutions in wearable and healthcare technologies" at Rajalakshmi Engineering College. Wayanad from 21/07/2025 to 26/07/2025. • Applied for AICTE-Industry Fellowship programme. Participated in Faculty Training Program(FTP) on “Empowering Engineering Educators with GenAI,Digitization and Future-Ready Pedagogies” in VIT,Chennai from 01.12.2025 to 05.12.2025. RAJALAKSHMI ENGINEERING COLLEGE INSTITUTION'S INNOVATION COUNCIL MTT-S DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING SIX-DAY NATIONAL LEVEL ONLINE FDP CERTIFICATE OF PARTICIPATION This is to certify that Dr./Mr./Ms. R. Carol Praveen has participated in the Six-Day National Level Faculty Development Program on "RE-CONFIGURABLE AND COMPACT ANTENNAS: ENABLING REAL-TIME SOLUTIONS IN WEARABLE AND HEALTHCARE TECHNOLOGIES" conducted by the Department of Electronics and Communication Engineering, in association with IEEE MTTS, IIC, Rajalakshmi Engineering College, Chennai, from 21/07/2025 to 26/07/2025. MS. SASIREKHA.D AP (SG),ECE - REC DR.L.BHAGYALAKSHMI Professor &HEAD, ECE - REC DR.S.N.MURUGESAN PRINCIPAL - REC

		 VIT CHENNAI Certificate of Participation This certificate is proudly presented to Dr./Prof./Ms./Mr. R.Carol Praveen from SSM Institute of Engineering and Technology, Dindigul for his/her active participation in the Faculty Training Programme (FTP) on "Empowering Engineering Educators with GenAI, Digitization and Future-Ready Pedagogies" organized in association with School of Computer Science and Engineering (SCOPE) from 1st December 2025 to 5th December 2025 at Vellore Institute of Technology, Chennai. Dr. Saguaya G | Dr. Sakthivel V | Dr. Prakash P Coordinators Dr. Viswanathan V Dean-SCOPE Dr. Sivakumar R Dean-SPORE Dr. T. Thyagarajan Pro Vice Chancellor VIT - A place to learn; A chance to grow
3	Mr.R.Senthil Kumar	1. I have received copyright certificate from government of India on the title of **"Laboratory manual for embedded and IOT design**" on 28.11.2025 2. I have successfully guided and mentoring the student team for presenting their project idea on **"Electric Vehicle SMCN Smart Multimode Communication Network**" in national level hackathon – Innovation Challenges 2025 held on 01.11.2015, organized by Xavier Institute for Research and Development under MSME-Government of India. 3. I have participated in the six day National Level faculty development Program on "Re-configurable and compact Antennas" **Enabling real-time solutions in wearable and Health care technologies**" Conducted by department of Electronics and Communication Engineering in association with IEEE MTTS , IIC rajalakshmi college of engineering - Chennai. 4. I have successfully completed a 4 weeks NPTEL course and FDP on "**Teaching and Learning in general program**" from July 2025 to August 2025. 5. Successfully completed 100% of the self-paced training course on MATLAB Onramp I have visited Kalasalingam university for connected with higher level institution for institution, department and self-development on 22- 24 December 2025.

Copyright Office, Government Of India

Copyright Certificate

Date of Filing:

This is to certify that a copyright has been registered for the work titled "LABORATORY MANUAL FOR EMBEDDED SYSTEMS AND IOT DESIGN." as disclosed in the below mentioned application in accordance with the provisions of the Copyright Act,1957.

Authors:

SNO.	Name	Address
1	MR. R.SENTHIL KUMAR	ASSISTANT PROFESSOR, DEPARTMENT OF ECE SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, DINDIGUL-PALANI HIGHWAY, DINDIGUL-624002
2	MRS.P.KARTHIKA	ASSISTANT PROFESSOR, DEPARTMENT OF ECE SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, DINDIGUL-PALANI HIGHWAY, DINDIGUL-624002
3	MRS.A.ABOOKIA HELEN SUSHMA	ASSISTANT PROFESSOR, DEPARTMENT OF ECE SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, DINDIGUL-PALANI HIGHWAY, DINDIGUL-624002

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Publisher Details:

SNO.	Name	Address
1	SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY	SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, DINDIGUL-PALANI HIGHWAY, DINDIGUL-624002

Language of the Work: English

Description of the Work: The work is a laboratory manual prepared by the faculty of the institution prepared for Embedded Systems and IoT laboratory, and for academic purposes

N.A.

Certificate

OF PARTICIPATION

We are proudly presented this Certificate to

Mr. Senthil Kumar R

Assistant Professor, SSM Institute of Engineering and Technology, has rendered valuable guidance and mentorship to the student team for presenting

"Electric vehicle SMCN Smart Multimode Communication Network"

in the **National-Level Hackathon - Innovation Challenges 2025**, held on 01-11-2025, organized by the **Xavier Institute for Research and Development**, an EduTech and Research Institute - an ISO 9001:2015 Certified Institution - Registered under MSME, Government of India.

ISO 9001:2015

QMS ACCREDITED

Mrs. C. Angel Sarojini

RAJALAKSHMI ENGINEERING COLLEGE

INSTITUTION'S INNOVATION COUNCIL

MTT-S

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SIX-DAY NATIONAL LEVEL ONLINE FDP

CERTIFICATE OF PARTICIPATION

This is to certify that Dr./Mr./Ms. Senthil Kumar R has participated in the Six-Day National Level Faculty Development Program on "RE-CONFIGURABLE AND COMPACT ANTENNAS: ENABLING REAL-TIME SOLUTIONS IN WEARABLE AND HEALTHCARE TECHNOLOGIES" conducted by the Department of Electronics and Communication Engineering, in association with IEEE MTTS, IIC, Rajalakshmi Engineering College, Chennai, from 21/07/2025 to 26/07/2025.

MS. SASIREKHA.D
AP ISG,ECE - REC

DR.L.BHAGYALAKSHMI
Professor &HEAD, ECE - REC

DR.S.N.MURUGESAN
PRINCIPAL - REC

Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

Skill India

This certificate is awarded to

SENTHIL KUMAR R

for successfully completing the course

Teaching and Learning in General Programs: TALG

with a consolidated score of 68 %

Online Assignments	20.83/25	Proctored Exam	47.25/75

Total number of candidates certified in this course: 641

Jul-Aug 2025

(4 week course)

Prof. L. Umanand

Indian Institute of Science Bangalore

swayam

4	Mr.K.S.Arunkumar	1.I have Attended Faculty internship program at Kalasalingam Academy of Research and Education in the duration from 22.12.2025 to 24.12.2025 2. I have Attended Three credit certificate course on Counselling skills for 45 hours in the month of June and July, Conducted by the St.Joseph'sCollege,Trichy 3. I have Attended AICTE Universal Human Values FDP in the duration from 26.12.2025 to 28.12.2025 at SSMIET 4. I have Attended PMRF weekend course of Design and Simulation of RF Circuits in the month of July Conducted by IISC Banglore 5. I have Attended Online Internship Certificate course on"Antenna Modelling and Analysis using HFSS at Entuple Technology from September to October 2025 Certificate This is to Certify that Mr.K.S.Arun Kumar, Assistant Professor, Department of ECE, SSM Institute of Engineering and Technology, Dindigul has sucessfully completed the Faculty internship at Kalasalingam Academy of Research and Education(KARE) under the Collaborative Academic Research and Engagement (CARE) Program. The Faculty internship undertaken during the period from 22.12.2025 to 24.12.2025 at our Institution. St. Joseph's College (Autonomous) Mr.K.S.Arunkumar Counselling Skills INSTITUTE OF SMART STRUCTURES AND SYSTEMS

5	Mr. J.VetriManiKumar	Participated in Six days National Level Faculty Development Program on "Re-Configurable and Compact Antennas Enabling Realtime Solutions in Wearable and Healthcare Technologies" in Rajalakshmi Engineering College,Chennai during 21.07.2025 to 26.07.2025. Participated in Six days ATAL FDP on "Next-Generation Healthcare: Integrating IoT and AI for Predictive Diagnostics and Monitoring" at Sri VenkateswaraCollege of Engineering", from 13.10.2025 to 18.10.2025. Successfully completed 100% of the self-paced training course on MATLAB Onramp-October 2025. Completed a 12 weeks NPTEL Certification on "Introduction to Industry 4.0 and Industrial Internet of Things" from July 2025 toOctober2025 with a score of 90%. Participated in Faculty Enablement Program(FTP) on Python Programming conducted from November 17,2025 to November 21,2025. Participated in Faculty Training Program(FTP) on "Empowering Engineering Educators with GenAI,Digitization and Future-Ready Pedagogies" in VIT,Chennai from 01.12.2025 to 05.12.2025.

ATAL/2025/1758104257

Skill India

ATAL

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi -110070

AICTE Training and Learning (ATAL) Academy

Certificate

It is certified that Mr. Vetrimanikumar J, Assistant Professor of SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Next-Generation Healthcare: Integrating IoT and AI for Predictive Diagnostics and Monitoring at SRI VENKATESWARA COLLEGE OF ENGINEERING from 13/10/2025 to 18/10/2025.

Gayathri R
Professor Level (AICTE Institute), Coordinator
SRI VENKATESWARA COLLEGE OF ENGINEERING

Dr. Sunil Luthra
Director & Bureau Head
Training and Learning Bureau, AICTE

MathWorks | Training Services

Course Completion Certificate

VETRIMANIKUMAR J

has successfully completed **100%** of the self-paced training course

MATLAB Onramp

DIRECTOR, TRAINING SERVICES

24 October 2025

Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

Skill India

This certificate is awarded to

VETRIMANIKUMAR J

for successfully completing the course

Introduction to Industry 4.0 and Industrial Internet of Things

with a consolidated score of 90 %

Online Assignments	24.78/25	Proctored Exam	65.51/75

Total number of candidates certified in this course: 19100

TOPPER

Jul-Oct 2025

(12 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL25CS51465105600174 To verify the certificate No. of credits recommended: 3 or 4

6	Mrs.G.Saranya	• Participated in a SERB-sponsored two-day offline symposium on "Advances in Biomedical Processing: From Data Acquisition to AI-Enhanced Clinical Interpretation (ABP 2025)" conducted at the Department of ECE, National Institute of Technology Puducherry, during 28–29 November 2025. • Presented a research paper titled 'BioHarvest-Net: A Bio-Inspired Energy Harvesting Model Based on Neural Networks for Advancing Green Energy' at the First International Conference on Innovations in Engineering and Next-Generation Technologies for Sustainability (ICINVENTS-25) , organized by Sri Krishna College of Engineering and Technology ,Coimbatore in association with IEEE-Madras Section on November 7th and 8th, 2025. • Authored a textbook titled *Remote Sensing* (2025–2026), published by VRB Publishers Pvt. Ltd., Chennai, structured as an Open Elective course for Electronics and Communication Engineering and Civil Engineering programs.

- Completed a 12-week NPTEL Course on “Introduction to Industry 4.0 and IndustrialInternet of Things” with 93 %(Elite + Gold) from July 2025 to October 2025.
- Attended 5-Day Faculty Development Program on “Generative AI with LLM”, organized by STEP – National Institute of Technology Karnataka (NITK) in association with Pantech e Learning, from 07.07.2025 – 11.07.2025
- Completed the MathWorks Training Services online course titled “Image Processing Onramp” with 100% completion as of 23 October 2025.

7	Mrs.K.Divya	1. I have participated and completed two days Workshop on "Harnessing**IoT, ML, and AI for Crop Protection and Climate Resilience**"organized by Institution of Engineers (India)at Anna University BIT Campus, Trichy from 02/08/2025 to 03/08/2025. 2. I have participated and completed AICTE Training and Learning (ATAL) Academy FDP on "**Intelliscape 2025: Integrating AIoT& Electrical Technologies for Urban and Agriculture Resilience Systems**" at SRI MUTHUKUMARAN INSTITUTE OF TECHNOLOGY from 08/09/2025 to 13/09/2025. 3. I have participated and completed AICTE Training and Learning

		(ATAL) Academy FDP on "**Integrating Quantum Computing with Digital Twins for Precision Agriculture : Innovations, Applications and Ethics**" at Coimbatore Institute of Technologyfrom 24/11/2025 to 29/11/2025. 4. I Successfully present a paper entitled **"Smart Drainage System for Manual Scavenging UsingIoT**" in International Conference of ICCDC 2025, organized byHaldia Institute of Technology, West Bengal,(Springer LNN), November 6 & 7, 2025. 5. I Completed MATLAB Course titled Machine Learning onramp on 28, October 2025. The Institution of Engineers (India) UNIVERSITY COLLEGE OF ENGINEERING Certificate of Participation This is to certify that K. DIVYA [ASSISTANT PROFESSOR] from SSM INSTITUTE OF ENGINEERING & TECHNOLOGY, DINDIGUL has participated in the AR India Workshop on "Harnessing IOT, Machine Learning, and AI for Smart Crop Protection and Climate Resilience" organized by the Institution of Engineers (India), Tiruchirappalli Local Centre under the aegis of Agricultural Engineering Division Board, IEI in association with Department of CIVIL and Computer Science Engineering, UNIVERSITY COLLEGE OF ENGINEERING, BIT CAMPUS, ANNA UNIVERISTY, Tiruchirappalli, on 02nd & 03rd of Aug 2025. Dr.S. RAVINARAN, Chairman IE(TLC) Dr.S.P. LAKSHMANAN, Hon. Secretary IE(TLC) Dr.G.VENKATESAN, AP/CIVIL/UCE/BIT Campus Dr.T.SUNTHILKUMAR, DEAN/UCE/BIT CAMPUS Skill India ATAL ALL INDIA COUNCIL FOR TECHNICAL EDUCATION Nelson Mandela Marg, Vasant Kunj, New Delhi -110070 AICTE Training and Learning (ATAL) Academy Certificate JAFFAR SADIQ ALI A Professor Level (AICTE Institute), Coordinator SRI MUTHUKUMARAN INSTITUTE OF TECHNOLOGY Dr. Sunil Luthra Director & Bureau Head Training and Learning Bureau, AICTE
8	Mrs.S.Keerthana	1. Secured Elite + Gold and recognized as a Topper (Top 5%) in the NPTEL 4 Week Course on "Foundations of Cognitive Robotics" conducted by IIT Kanpur during Jul-Aug 2025. 2. Secured Elite + Silver and recognized as a Topper (Top 5%) in the NPTEL 12 Week Course on "Introduction to Internet of Things" conducted by IIT Kharagpurduring Jul-Oct 2025. 3. Secured Elite + Silver in the NPTEL 8 Week Course on

"Mechanics and Control of Robotic Manipulators" conducted by IIT Palakkad during Jul-Sept 2025.

4. Successfully completed the AICTE-approved Postgraduate Certification Program on Robotics conducted at IIT Palakkad from July to December 2025.

   Accompanied IV ECE students during an industrial exposure at Bajaj Engineering & Skill Training (BEST) Center, SASTRAon 10.10.2025.

Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

Skill India

This certificate is awarded to

KEERTHANA S

for successfully completing the course

Mechanics and Control of Robotic Manipulators

with a consolidated score of 79 %

Online Assignments	23.08/25	Proctored Exam	55.5/75

Total number of candidates certified in this course: 72

Dr. Piyush R Kurur
Chairman, Centre for Continuing Education
IIT Palakkad

Jul-Sep 2025
(8 week course)

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

Indian Institute of Technology Palakkad

swayam

Roll No: NPTEL25ME10555334700012 To verify the certificate No. of credits recommended: 2 or 3

Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

Skill India

This certificate is awarded to

KEERTHANA S

for successfully completing the course

Foundations of Cognitive Robotics

with a consolidated score of 80 %

Online Assignments	24.17/25	Proctored Exam	55.5/75

Total number of candidates certified in this course: 184

TOPPER

5%

Prof. B. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur

Jul-Aug 2025
(4 week course)

Prof. Sabyasachi Ray
NPTEL Coordinator
IIT Kanpur

Indian Institute of Technology Kanpur

swayam

Roll No: NPTEL25ME10555334700018 To verify the certificate No. of credits recommended: 1 or 2

Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

Skill India

This certificate is awarded to

KEERTHANA S

for successfully completing the course

Introduction to Internet of Things

with a consolidated score of 86 %

Online Assignments	22.91/25	Proctored Exam	62.75/75

Total number of candidates certified in this course: 50282

TOPPER

5%

Jul-Oct 2025
(12 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL25CS14751055600195 To verify the certificate No. of credits recommended: 3 or 4

		Indian Institute of Technology Palakkad भारतीय प्रौद्योगिकी संस्थान पालक्कड Nurturing Minds For a Better World 19-12-2025 **ATTENDANCE CERTIFICATE** This is to certify that **Ms. KEERTHANA S** from **SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY** has successfully attended the second offline session of the **AICTE-QIP-PG Certificate Programme on Robotics** held at **Indian Institute of Technology Palakkad, Kerala** from **10th December to 20th December 2025.** The participant was present and actively engaged in all the scheduled activities, lectures, and workshops during this period. **Course Coordinator:** 19/12/2025 **Dr. Sneha Gajbhiye** **Associate Professor,** **Dept. of Electrical Engineering,** **IIT Palakkad**
9	Mrs.G.RajaRajeshwari	1. Completed a Faculty Internship under the Collaborative Academic Research and Engagement (CARE) Programme at Kalasalingam Academy of Research and Education (KARE), Deemed to be University,(22 December 2025 – 24 December 2025). 2. Acted as a Resource Person for the Faculty Orientation Programme on “Improving Teaching–Learning Outcomes with Digital Platforms”, organized by SSM College of Arts and Science (Affiliated to Madurai Kamaraj University),held on 08 December 2025. 3. Attended 5-Day Online National Level FDP on Advancing with Agentic AI & Prompt Engineering: Next-Gen Capabilities for Teaching & Research, Dept. of AI & ML, Sri Sairam College of Engineering, Bengaluru (15–19 September 2025)

10	Mrs.P.Karthika	I have attended one week online ATAL Faculty Development Program on "ADVANCES IN BIOMEDICAL AND HEALTHCARE USING ARTIFICIAL INTELLIGENCE" at Jaya Sakthi Engineering College from20/10/2025to 25/10/2025. I have successfully completed the 12-week NPTEL–AICTE Faculty Development Program titled "Introduction to Industry 4.0 and Industrial Internet of Things" conducted from July to October 2025, securing a score of 90%. I have attended online webinar on "Quantum Computing and Algorithms" at Study World College of Engineering on 17/10/2025. I have successfully completed the 2-day SERB-sponsored offline symposium on "Advances in Biomedical Processing: From Data Acquisition to AI-Enhanced clinical Interpretation (ABP 2025)" held at the Department of ECE, NIT Puducherry, November 28-29, 2025. Successfully completed 100% of the self-paced training course on MATLAB Onramp

ATAL
ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
Nelson Mandela Marg, Vasant Kunj, New Delhi -110070
AICTE Training and Learning (ATAL) Academy
Certificate

NPTEL-AICTE
Faculty Development Programme
This certificate is awarded to
KARTHIKA P
for successfully completing the course
Introduction to Industry 4.0 and Industrial Internet of Things
with a consolidated score of 90 %

STUDY WORLD COLLEGE OF ENGINEERING
Palathurai, Madukkarai, Coimbatore - 641105
IEEE
CERTIFICATE
OF PARTICIPATION
P Karthika, Assistant Professor
SSM Institute of Engineering and Technology

MINISTRY OF EDUCATION
CERTIFICATE
OF COMPLETION
This certificate is presented to
Karthika P
of
SSM Institute of Engineering and Technology
for participating and completing the two-day SERB-sponsored offline symposium on "Advances in Biomedical Processing: From Data Acquisition to AI-Enhanced Clinical Interpretation (ABP 2025)", held at the Department of ECE, NIT Puducherry, India, during November 28-29, 2025.
Dr. Maleya Kumar Nath
(Organizer)

11	Mrs.K.Moniga	1. I have successfully completed an Online FDP on “Recent Advancements in AI & ML” conducted by PANTECH from 30.06.2025 to 04.07.2025, gaining knowledge in modern AI algorithms and ML techniques. 2. I participated in the Learners and Educators Workshop – “STEAM Synergy: Co-Creating Innovative Environment” held at SRM IET, Vadapalani from 28.07.2025 to 02.08.2025, learning interdisciplinary and creative teaching approaches. 3. I attended a Two-Day Technical Workshop on “Harnessing IoT, ML & AI for Smart Crop Protection and Climate Resilience” at BIT Campus, Trichy, held on 02.09.2025 and 03.09.2025, where I learned hands-on applications of AI and IoT in agriculture. 4. I completed MATLAB Onramp and Wireless Communication Onramp, strengthening my computational and communication system fundamentals. I participated in a 6-Day ATAL FDP at CIT, Coimbatore from 24.11.2025 to 29.11.2025 on the program titled “Integrating Quantum Computing with Digital Twins for Precision Agriculture: Innovations, Applications and Ethics”. The FDP provided deep insights into advanced AI applications, quantum computing concepts, and research perspectives for developing smart and sustainable agricultural technologies • Authored a textbook titled *Remote Sensing* (2025–2026), published by VRB Publishers Pvt. Ltd., Chennai, structured as an Open Elective course for Electronics and Communication Engineering and Civil Engineering programs.

St. JOSEPH'S COLLEGE OF ENGINEERING
(An Autonomous Institution)
St. Joseph's Group of Institutions
OMR, CHENNAI - 119
Pantech e Learning

Department of Electronics and Communication Engineering

CERTIFICATE OF PARTICIPATION

This is to certify that MRS.K.MONIGA

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

has actively participated & completed the One Week Faculty Development Program on Recent Advancements in Artificial Intelligence (AI) & ML from 30th June to 4th July 2025, organized by the Department of Electronics and Communication Engineering, St. Joseph's College of Engineering in association with STEP - National Institute of Technology, Surathkal and Pantech e Learning.

DR.S.RAJESHKANNAN, HOD-ECE, St. Joseph's College of Engineering, OMR, Chennai -119
DR.D.LAKSHMI, CO - ORDINATOR, St. Joseph's College of Engineering, OMR, Chennai -119
SUBRAY HEGDE, PROFESSOR INCHARGE, STEP - National Institute of Technology, Surathkal
M.R.SENTHILKUMAR, DIRECTOR, Pantech e Learning Pvt. Ltd, Chennai

CERTIFICATE NO: PEL-FDP-25-2051

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY
FACULTY OF ENGINEERING AND TECHNOLOGY
VADAPALANI CAMPUS, CHENNAI - 600026
SRM

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
A SIX DAY WORKSHOP ON
STEAM SYNERGY: CO-CREATING INNOVATIVE ENVIRONMENT THROUGH DESIGN THINKING

Certificate of Appreciation

This is to certify that ***Mrs K Moniga*** *from* ***Ssm Institute Of Engineering And Technology, Dindigul*** *has participated in the A SIX DAY WORKSHOP on* ***"STEAM SYNERGY Co-creating Innovative Environment through Design Thinking"*** *held from 28th July to 2nd August, 2025 organized by the Department of Electronics and Communication Engineering, SRM Institute of Science and Technology, Vadapalani, Chennai.*

Dr. P. Nagarajan, Asst. Prof (SG), Faculty Coordinator
Mrs. V. Vanitha, Asst. Prof (SG), Faculty Coordinator
Dr. A. Shirly Edward, HoD / ECE
Dr. C. Gunasthy, VP / Academics & Placements
Dr. C.V. Jayakumar, DEAN/FET

The Institution of Engineers (India)
UNIVERSITY COLLEGE OF ENGINEERING
BIT CAMPUS, ANNA UNIVERSITY, TIRUCHIRAPPALLI-620024

Certificate of Participation

This is to certify that MONIGA K (ASSISTANT PROFESSOR)

from SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

has participated in the All India Workshop on "Harnessing IOT, Machine Learning, and AI for Smart Crop Protection and Climate Resilience" organized by the Institution of Engineers (India), Tiruchirappalli Local Centre under the aegis of Agricultural Engineering Division Board, IEI in association with Department of CIVIL and Computer Science Engineering, UNIVERSITY COLLEGE OF ENGINEERING, BIT CAMPUS, ANNA UNIVERSITY, Tiruchirappalli on 02nd & 03rd of Aug 2025.

Dr.S. RAVIMARAN, Chairman IE(I)TLC
Er.S.P. LAKSHMANAN, Hon. Secretary IE(I)TLC
Dr.G.VENKATESAN, AP/CIVIL/UCE/BIT Campus
Dr.T. SENTHILKUMAR, DEAN/UCE/BIT CAMPUS

12	Mrs.R.Sudha	I have attended one week online ATAL Faculty Development Program on "Cyber security Boot camp: Safeguarding Systems and Networks" at Government Engineering College. Wayanad from 10/11/2025 to 15/1 1/2025. I have completed a 12 weeks NPTEL FDP on"Machine Learning and Deep Learning - Fundamentals and Applications" from July 2025 toOctober2025. I have attended Six day workshop on STEAM SYNERGY

Cocreating Innovative Environment through Design Thinking" held from 28 July to 2 August.2025 at, SRM Institute of Science and Technology, Vadapalani. Chennai.

I completed a five day national level FDP on Recent"Advancements in Machine Learning: Emerging Tools, Techniques and Applications" atPrathyusha Engineering College from 24 November to 8 Novembe2r 2025.

Participated in the Indo-Taiwan Joint Workshop on Semiconductor Packaging andTesting (Online-Mode) held on 22nd and 23rd of August 2025.

Successfully completed 100% of the self-paced training course on MATLAB Onramp

Successfully completed 100% of the self-paced training course on MATLAB coder Onramp

Authored a textbook titled *Remote Sensing* (2025–2026), published by VRB Publishers Pvt. Ltd., Chennai, structured as an Open Elective course for Electronics and Communication Engineering and Civil Engineering programs.

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY
FACULTY OF ENGINEERING AND TECHNOLOGY
VADAPALANI CAMPUS, CHENNAI - 600026

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

A SIX DAY WORKSHOP ON

STEAM SYNERGY: CO-CREATING INNOVATIVE ENVIRONMENT THROUGH DESIGN THINKING

Certificate of Appreciation

This is to certify that **Mrs R Sudha** from **Ssm Institute Of Engineering And Technology** has participated in the A SIX DAY WORKSHOP on **"STEAM SYNERGY Co-creating Innovative Environment through Design Thinking"** held from 28th July to 2nd August, 2025 organized by the Department of Electronics and Communication Engineering, SRM Institute of Science and Technology, Vadapalani, Chennai.

CERTIFICATE OF COMPLETION

This is to Certify that

MRS.R.SUDHA

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

has sucessfully participated and completed the **Five Days National Level Faculty Development Programme** on **Recent Advancements in Machine Learning: Emerging Tools, Techniques and Applications** organized by **Department of CSE-AIML, Prathyusha Engineering College (Autonomous)** in association with **Pantech Solutions Pvt Ltd** from 24th to 28th November 2025.

SASTRA

MINISTRY OF EDUCATION

PARC

CERTIFICATE
OF PARTICIPATION

This is to Certify that

R. SUDHA

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

has participated in the **Indo-Taiwan Joint Workshop on Semiconductor Packaging and Testing** (Online Mode) held on 22nd and 23rd of August 2025.

Dr. B. John Bosco Balaguru, Dean-Sponsored Research, SASTRA Deemed University

Dr. S. Levin Prakash, Assistant Professor, SASTRA Deemed University

Dr. Chin-Yu Chang, Chairman, Department of Semiconductor Engineering, Lunghwa University of Science & Technology

MathWorks | Training Services

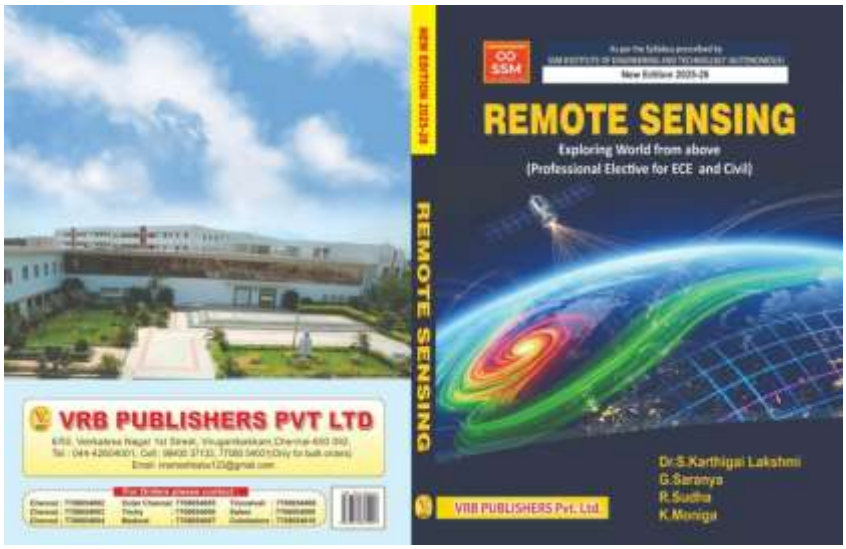
Course Completion Certificate

sudha R

has successfully completed **100%** of the self-paced training course

MATLAB Onramp

16 September 2025

		  
13	Mrs.E.Thangadeepika	• I have attended one week national level FDP on "Recent Advancement in Artificial Intelligence (AI) & ML" from 30-06-2025 to 04-07-2025 at St.Joseph's College of Engineering in association with STEP-NITK,Surathkal & Pantech Solutions Pvt.Ltd. • I have attended one week national level FDP on "Trends on AI-Text,Vision & Hardware Implementation Models" from 28-08-2025 to 02-09-2025 at Panimalar Engineering College in association with STEP-NITK,Surathkal & Pantech Solutions Pvt.Ltd. • I have attended Two day Workshop on "Harnessing IOT,Machine Learning and AI for Smart crop Protection and Climate Resilience" at University College of Engineering,BIT Campus,Anna Unniversity,Tiruchirappalli on 02nd& 03rd Aug 2025. • I have attended one day online workshop on "Satellite Data Processing of Open-Source Data for Agriculture" at SRM Institute of Science and Technology,Kattankulathur on 5th aril

2025.

- I have completed 5 Days online FDP on “Inculcating UniversalHuman Values in Technical Education” organized by All India Council for Technical Education (AICTE) from 15th September to 19th September 2025.
- I have contributed an article titled “ SmartDrinage system for Manual scavenging using IoT” in 5th International Conference on ICCDC 2025 on 6th & 7th November 2025.
- Successfully completed “Deep Learning with Pytorch : Image Segmentation” on online non-credit project authorized by COURSERA Project Network.
- Successfully completed 100% of the self-paced training course on MATLAB Onramp.

  Successfully completed 12 weeks NPTEL course on “Digital Image Processing”.

The Institution of Engineers (India)

UNIVERSITY COLLEGE OF ENGINEERING

IIT CAMPUS, ANNA UNIVERSITY, TIRUCHIRAPPALLI 620024

Certificate of Participation

This is to certify that E. THANGADEEPIGA (ASSISTANT PROFESSOR) from SSM INSTITUTE OF ENGINEERING & TECHNOLOGY, DINDIGUL has participated in the **All India Workshop** on **"Harnessing IOT, Machine Learning, and AI for Smart Crop Protection and Climate Resilience"** organized by the **Institution of Engineers (India), Tiruchirappalli Local Centre** under the aegis of **Agricultural Engineering Division Board, IEI** in association with **Department of CIVIL and Computer Science Engineering, UNIVERSITY COLLEGE OF ENGINEERING, IIT CAMPUS, ANNA UNIVERSITY,** Tiruchirappalli, on 02nd & 03rd of Aug 2025.

Dr.G.VENKATESAN
AP/CIVIL/UCE/IIT Campus

Dr.T.SENTHILKUMAR
DEAN/UCE/IIT CAMPUS

Chairman (IEI/TLC)

Dr.S.P. LAKSHMANAN
Hon. Secretary (IEI/TLC)

SRM

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY
COLLEGE OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF CIVIL ENGINEERING
CENTRE FOR REMOTE SENSING AND GIS
Kattankulathur – 603 203, Tamil Nadu, India.

SPACE TO EARTH

One Day Online Workshop on

SATELLITE DATA PROCESSING OF OPEN-SOURCE DATA FOR AGRICULTURE

Participation Certificate

This is to certify that Mr./Ms./Dr. E. Thangadeepiga from SSM Institute of Engineering and Technology, Dindigul, Tamilnadu has actively participated in the One day online Workshop on **"SATELLITE DATA PROCESSING OF OPEN-SOURCE DATA FOR AGRICULTURE"** conducted by the Centre for Remote Sensing and GIS, Department of Civil Engineering, SRM Institute of Science and Technology, Kattankulathur on 5th April 2025.

Dr. R. Annadurai
Professor Centre Co-ordinator/Convenor
Centre for Remote Sensing and GIS
Department of Civil Engineering, SRMIST

F. No AICTE/FDP-10/Online/Workshop/2021/[illegible]

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

NELSON MANDELA MARG, VASANT KUNJ, NEW DELHI

Certificate of Participation

This is to certify that Mrs. E. Thangadeepiga from SSM Institute of Engineering and Technology, Dindigul has participated and successfully completed the 5-day Online FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education (AICTE) from 15th September to 19th September 2025.

Dr. Rajaresh Arora
Chairman
National Coordination Committee for Induction Program

Prof. Shyama Rath
Member Secretary, AICTE

CDC 2025

Certificate of Authorship

This certificate is proudly presented to

K. Divya, S. Karthigai Lakshmi, E. Thanga Deepiga, and K. Jayaprakasam

for contributing an article entitled ***"Smart Drinage system for Manual Scavenging using IoT"*** in the 5th International Conference on Communication, Devices and Computing (**ICCDC 2025**) held on 6th and 7th November 2025.

Organized by

Department of Electronics & Communication Engineering
Haldia Institute of Technology, Haldia, WB, India

PROF. (DR.) CHANCHAL KR. DE
General Chair, ICCDC 2025

Springer

DR. AVISHEK DAS
Publication Chair, ICCDC 2025

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

Skill India

This certificate is awarded to

E THANGADEEPIGA

for successfully completing the course

Digital Image Processing

with a consolidated score of 54 %

Online Assignments	22.19/25	Proctored Exam	31.5/75

Total number of candidates certified in this course: 1398

Jul-Oct 2025

(12 week course)

Prof. Hainanti Sunerji

Indian Institute of Technology Kharagpur

swayam

MathWorks | Training Services

Course Completion Certificate

THANGADEEPIGA E

has successfully completed **100%** of the self-paced training course

MATLAB Onramp

1 July 2025

coursera project network

PROJECT CERTIFICATE

Thangadeepiga Thangadeepiga

Deep Learning with PyTorch : Image Segmentation

coursera