



RAMCO INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi & Affiliated to Anna University

NAAC Accredited with 'A+' Grade & An ISO 9001: 2015 Certified Institution

NBA Accredited UG Programs: CSE, EEE, ECE and MECH

Department of Electronics and Communication Engineering

MoU Activities (2024-2025)

Medsby Health Care & Solutions, Coimbatore:

“3D Printing Technology”

Ramco Institute of Technology (RIT), in association with Medsby Healthcare and Engineering Solutions, Coimbatore, organized a Three-day Short Term Training Programme on **“3D Printing Technology”** during 15 – 17 April, 2025.

Mr.G.Guru Prasandh, CEO & Founder, and Mrs.S.Sree Sanjanaa Bose, Senior Project Engineer and Trainer of Medsby Healthcare & Engineering Solutions, Coimbatore provided hands-on training on 3D printing technology to 55 students from Civil, EEE, IT, CSBS, ECE & Mechanical Engineering departments.



The programme is starts with formal inaugural function and the following sessions were handled by Mr.G.Guru Prasandh, and Mrs.S.Sree

Sanjanaa Bose. In this training programme, the students were equipped with new skills of digital modeling, Slicing & Orientation, Post processing of 3D printed models, Design for 3D printing, hands on training, industrial applications, career opportunities and mini project. Dr.L.Ganesan, Principal, Dr.S.Rajakarunkaran, Vice-Principal, Mr.K.S.Selvaraj, GM(A), presided over the entire programme. Dr.J.Jerold John Britto, ASP (II)/Mech and Mr.A.RameshBabu, AP (II)/ECE coordinated this programme.

Tessolve Semiconductor Pvt Ltd, Bangalore

- Mr.P.Siva Chidambaram, Senior Silicon Validation Engineer – Resource person for the Alumni Summit 2.0 and orientation program for Tessolve Drive.
- The Department of ECE Alumni has organised the Orientation programme on 30.07.2024. Mr.Sudharsanakumar, Mr.S.Vijayan, Test Engineer, Tessolve semiconductor pvt. ltd, Bangalore are the resource persons.
- T.Dhivyadharshini (2021-2025) got placed in Tessolve Semiconductor Pvt.Ltd.,
- Dr.C.Arunachalaperumal, Dr.A.Azhalagu Jaisudan Pazhani, Mr.A.Rameshbabhu attend one day industrial visit on 06.01.2025.



NI Systems Private Limited, Bangalore

- Short term Training Program on “NI LabVIEW Applications using myDAQ and myRIO” from 27.08.2024 to 31.08.2024 for III & IV year students of EEE, ECE and Mech. Resource Person - Mrs. Megha B Patil, Application Engineer.



Ramco Group of Textile Division, Rajapalayam

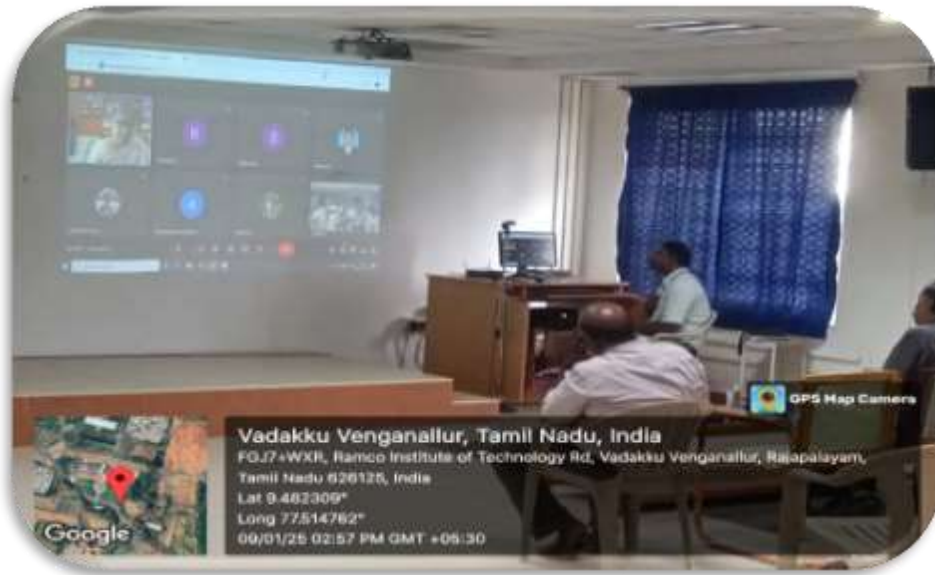
- Fifteen students of third year ECE (Batch 2022-2026) completed **internship** in Ramco Mills Limited, Rajapalayam.

Ramco Cements Ltd., Chennai.

- Six students (Dharshini G, Meera A, Sangeetha R, Rithika B, Raja Keerthika G, Inika R) got placed in Ramco Cements Ltd., in Placement drive (2023-2024).

Enthu Technology Solutions India Pvt Ltd, Coimbatore.

- Mr.K.Moorthy, Director-Business Development, Enthu Technology Solutions India Pvt. Ltd., Coimbatore as one of Department Advisory Committee Member for DAC -VII on 1.09.2025.



Industry Institute Interactions:

ZOHO DRIVE ALUMNI INSIGHTS

Students eligible for the first round of interviews with Zoho Corporation Pvt. Ltd. attended the orientation meeting, which is being arranged by the Alumni and Placement Cell of the Department of Electronics and Communication Engineering.

Persons of reference Students received valuable guidance from Mr. P. Kalidas, Full Stack Developer at Zoho Corporation Pvt. Ltd., Tenkasi, who is an alumnus of the Ramco Institute of Technology's ECE department, on interview preparation for the first round and related topics. Students interacted with alumni and addressed their questions on the interview procedure.

Date and Timing: 24.07.2024 and 08.00pm to 09.00pm

Mode of Delivery: Online (Goole Meet: <https://meet.google.com/bss-vjtc-gbo>)

Beneficiaries: Tessolve Frist Round Eligible Students

Resource Persons

Mr.P.Kalidas,
Full Stack Developer,
Zoho Corporation Pvt. Ltd., Tenkasi.

Screen Shorts



 Kalidev P	 Sivakumar G	 SANTHOSH KUMAR A	 SUNDAR M
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 SIVASAKTHI M	 JEBAPRIYA B	 31 others	 KARTHKEYAN A

8:01 PM | bss-vjtc-gbo



 SHREE HARISH R	 G.V.THIVYAA A	 Sivakumar G
 AMRTHAVARSHIB R	 Kalidev P	 SANTHOSH KUMAR A
 SUNDAR M	 43 others	 KARTHKEYAN A

7:47 PM | bss-vjtc-gbo



Orientation Program for Tessolve Drive

The Alumni and Placement Cell of the Department of Electronics and Communication Engineering has arranged the orientation event for the students who qualify for the first round of the Tessolve Semiconductor Pvt. Ltd. interview process.

Resource persons Mr. Sudharsanakumar, Test Engineer, Tessolve Semiconductor Pvt. Ltd., Bengaluru, and Mr. S. Vijayan, Test Engineer, Tessolve Semiconductor Pvt. Ltd., Bengaluru, both alumni of the Ramco Institute of Technology from the ECE department, gave excellent guidance to students towards preparation for the first round interview and topics related to the interview. Students interacted with Alumnous and cleared their doubts about the interview process.

Date and Timing: 30.07.2024 and 08.00pm to 09.00pm

Mode of Delivery: Online (Goole Meet: <http://meet.google.com/var-mzck-mth>)

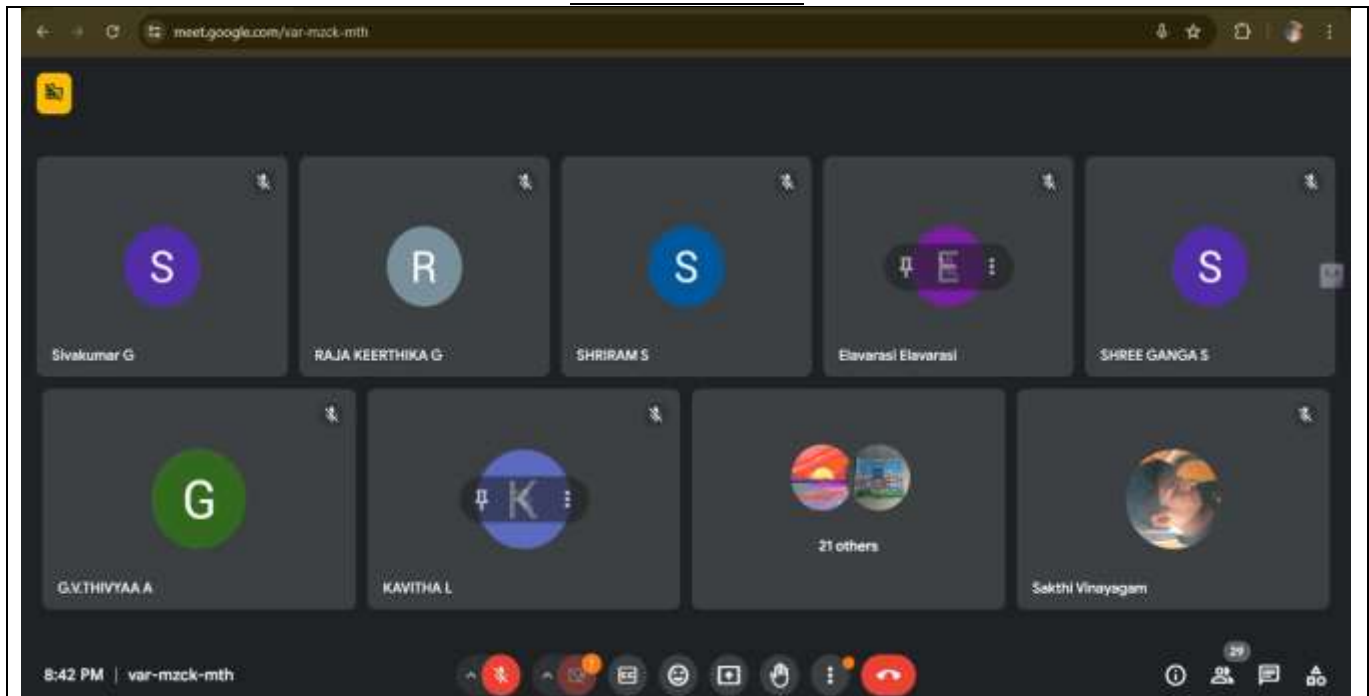
Beneficiaries: Tessolve Frist Round Eligible Students

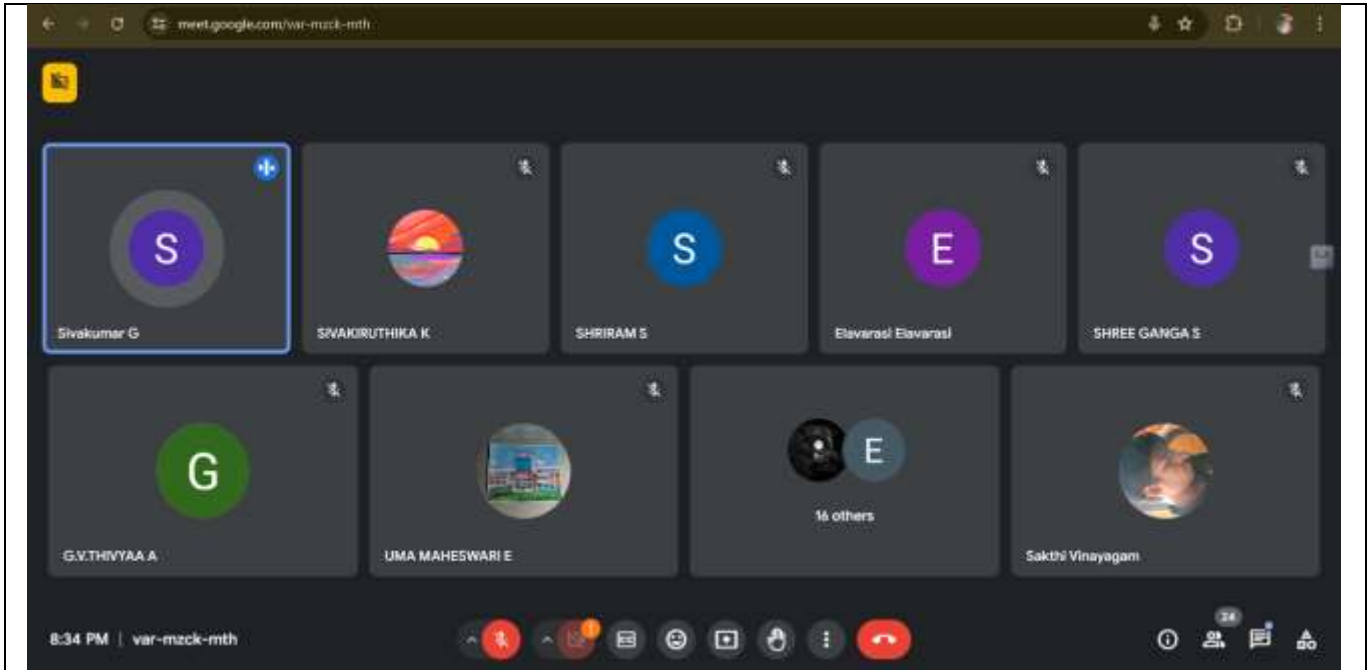
Resource Persons

Mr.Sudharsanakumar,
Test Engineer ,
Tessolve Semiconductor Pvt Ltd,
Bengaluru.

Mr.S.Vijayan,
Test Engineer ,
Tessolve Semiconductor Pvt Ltd,
Bengaluru.

Screen Shorts





“Engineering Minds: Alumni Knowledge Exchange”

RIT - Alumni Association and Department of Electronics and Communication Engineering has arranged an enriching alumni interaction session was conducted for the first-year college students, providing them with valuable insights into various career paths and opportunities. The session featured accomplished alumni who shared their professional journeys and offered guidance based on their experiences in the industry and academia. The speakers included a Digital Learning Administrator from Continental Automotive Components (India) Pvt. Ltd., a Data Analyst from Huron Consulting Group, and a Programming Specialist-Trainee from Sandhata Technologies Pvt. Ltd., Chennai. Additionally, an alumnus pursuing MSc in Electronic Engineering at the University of Surrey, England, shared their academic perspective, highlighting the importance of higher education and global opportunities. The alumni emphasized the significance of skill

development, adaptability, and staying updated with industry trends, leaving the students inspired and motivated for their future endeavors.

Date and Timing: 11.09.2024 Time :11:30Pm to 12:30pm

Mode of Delivery: Online (Goole Meet: <https://meet.google.com/fwk-ogyo-vud>)

Beneficiaries: First Year Students

Resource Persons

Mr.V. Marikrishnan
Digital Learning Administrator,
Continental Automative Components
(India) Pvt.Ltd.,
Bangalore.

Ms.M.Muthurani
Data analyst,
Huron Consulting Group,
Bangalore.

Ms. V. MAHA VIDHYA
Programming Specialist-Trainee,
Sandhata Technologies Pvt Ltd,
Chennai

Mr. J. Madhanagopal
Msc- Electronic engineering,
University of surrey,
England



Navigating the Future: Alumni Perspectives for SmartDV Aspirants REPORT

The Alumni and Placement Cell of the Department of Electronics and Communication Engineering has arranged the orientation event for the students for the SmartDV Technologies interview process.

Resource persons Ms.Lakshana Sundararaj, Verification Engineer, and Ms.Aparna kanagaraj Design Engineer, SmartDV Technologies India Private

Limited, Bangalore. Both alumni of the Ramco Institute of Technology from the ECE department, gave excellent guidance to students towards preparation for the interview and discussed topics related to the interview. Students interacted with Alumnous and cleared their doubts about the interview process.

Date and Timing: 30.11.2024 Time :6:00Pm to 7:00pm

Mode of Delivery: Online (Goole Meet: <https://meet.google.com/oru-vfirt-dhn>)

Beneficiaries: Final Year Students

Resource Persons

Ms.Lakshana Sundararaj
Verification Engineer ,
SmartDV Technologies India Private
Limited,
Bangalore.

Ms.Aparna kanagaraj
Design Engineer,
SmartDV Technologies India Private
Limited, Bangalore.

Project Review:

The project review session was conducted with the support of industry experts, who served as resource persons. They evaluated the students' project progress, provided constructive feedback, and offered industry-oriented suggestions to improve the technical quality and practical relevance of the projects. Their insights helped students refine their work and align it with current industrial expectations.

Resource Persons:

M.Shrinithi Meena ,
Ramco Cements,
Chennai.

Mr.P.Kalidas,
Full Stack Developer,
Zoho Corporation Pvt. Ltd., Tenkasi.



Department Advisory Committee Meeting-VII:

The seventh Department Advisory Committee Meeting was held on 28.12.2024. During the meeting, the industry representative offered several valuable suggestions to strengthen the department's academic and skill-development initiatives. He emphasized the need to update the curriculum in line with current industry trends, encourage students to gain hands-on experience through internships and industry-oriented projects, and enhance technical training programs to improve employability. The committee noted these suggestions and agreed to incorporate them into the department's future planning and development activities.

Resorce Person :

Mr.A.Sriram
Silicon Validation Engineer,
Tessolve Semiconductor Private
Limited, Bangalore.

Mr.G.Harri Ram
Project Leader,
Mobiveil Technologies Pvt, Ltd.,
Chennai.

Mr.G.M.Vairamuthu
System Engineer,
Data Patterhs (India), Ltd.
Chennai.

Ms.K.Sukuna
Assistant manager Programmer,
Ramco Cements, Chennai.

Mr.A.Karthickvel
Tech Lead,
Bosch Global Software Technologies Pvt
Ltd, Coimbatore.

Mr.K.Moorthi
Director-Business Development,
Enthu Technology Solutions India Pvt Ltd,
Coimbatore.



Non-Teaching Staff STTP on “Empower 360: Skill Enhancement for Non-Teaching Staff”

Department of ECE, Ramco Institute of Technology, in association with IEEE Photonics Society SBC, Madras Section, organized a Five Day Non - Teaching Staff Short Term Training Programme on, **“Empower 360: Skill Enhancement for Non-Teaching Staff” Schedule**” during 03-07 February,2025. The programme started with a formal inaugural function. Mr.S.Subbaiya, Service Manager from GST Scientific Solutions delivered a lecture about basic calibration of Equipment. Mr.P.Pandiganesh, Proprietor, HEM equipments, Madurai delivered hands on session on troubleshooting and debugging various equipments. Mr.R.Deivanayagam, AP/ECE, Ramco Institute of Technology delivered a lecture on basics of Artificial Intelligence. Explore on Microsoft Tools session delivered by Mr.B.Kannan, AP(SG)/ECE, Ramco Institute of Technology. A hands-on session on Photoshop, CorelDraw and Micro-Soft Office Tools was delivered by Mr.E.Thangam, AP(SG)/EEE, Ramco Institute of Technology. Green energy and sustainability practices session was delivered by Mr.R.Arun Kumar, AP(SG)/Mech, Ramco Institute of Technology. Work place ethics and professionalism session was delivered by Dr.A.Lakshmi, Professor/ECE, Ramco Institute of Technology. Dr.P.Thiruramanathan, ASP/Physics delivered a session on stress management and personality development. Overall 73 participants participated in this STTP including 17 external participants from various colleges. The participants expressed that the training was very much interesting and informative. Certificates were distributed to all the participants. The program was successfully organized with the support of Dr. L. Ganesan, the Principal, Dr.S.Rajakarunakaran, the Vice-Principal, Dr.C.Arunachala Perumal, HoD/ECE along with the assistance of the teaching and non-teaching staff. The Training Programme was coordinated by Mrs.R.Ramalakshmi, AP(SG)/ECE and Mrs.V.SrirengaNachiyar, AP(SG)/ECE.



Python Programming Essentials for AI Applications

The department of Electronics and Communication Engineering organized a Value Added Course titled “Python Programming Essentials for AI Applications” from 03.02.2025 to 07.02.2025 for II year ECE students. Totally 62 students were actively participated in this programme.

Mr.S.Lingesh, Adshi5 Pvt Ltd ,Chennai is the resource person of this training on 06.02.2025 from 9.30 A.M – 4.30 P.M . He handled the topic of “Machine Learning Concepts and Applications”. He aimed to provide participants with both theoretical knowledge and practical experience in machine learning. The course attracted professionals, students, and tech enthusiasts eager to delve into the rapidly evolving world of machine learning. Mr.S.Lingesh, known for his expertise in AI and data science, meticulously designed the curriculum to address the fundamentals of ML while also showcasing real-world applications.

He emphasized practical applications, guiding students through case studies and live projects. Learners explored the development of

recommendation systems, predictive analytics, and fraud detection systems, demonstrating the immense potential of ML in solving complex problems. The hands-on experience provided invaluable insights into how machine learning is already at the forefront of technological innovation. Students expressed their enthusiasm and appreciation for the course, with many highlighting the clarity of the instruction and the hands-on approach.



Dr. S.Thayammal , Deep Dive Technologies , Sivakasi is the resource person of this training on 07.02.2025 from 9.30 A.M – 4.30 P.M. She handled the topic of “to Deep Learning and Implementation of the DL techniques in the projects” . She opened the lecture by providing a comprehensive introduction to deep learning, explaining its significance as a subset of machine learning. She elaborated on how deep learning algorithms, specifically neural networks, have revolutionized fields such as computer vision, natural language processing, and speech recognition. She focused on practical applications, showcasing how deep learning techniques are implemented in real-world projects. She emphasized the use of libraries like TensorFlow and PyTorch for building deep learning models. The lecture included step-by-step guidance on how to train, validate, and optimize deep learning models for specific tasks like image classification, object detection, and text generation.

She also addressed the common challenges faced when working with deep learning techniques, such as overfitting, underfitting, data scarcity, and the high computational cost of training models.



TNSCST Sponsored three days National Level Workshop on “Printed Circuit Board Design and Analysis: From Idea to Product”

Department of ECE, organised a **TNSCST Sponsored three days National Level Workshop on “Printed Circuit Board Design and Analysis: From Idea to Product”** from 26.02.2025 to 28.02.2025 for II & III year students of EEE, ECE. 29 students from other college and 32 students from department of ECE, Ramco Institute of Technology attended the program and got benefited. **Dr. N. Pothirasan, Proprietor, HASHAN MEDICARE, Rajapalayam** acted as the resource person for this event. He is accompanied with his team members **Mr.M.Karthik, Software Developer** and **Mr.K.Gowrisankar, Hardware Developer, Hashan Medicare**. The main aim of this event is exploring new avenues with latest advances in the PCB designing. This workshop is intended for academic community in teaching, research and for the engineering students (UG/PG) who wish to develop a deeper understanding in circuit designing. To learn the principles of designing printed circuit boards, including component placement, routing, and layer stacking, for efficient and reliable circuit functionality. To incorporate eco-friendly practices in PCB design, including material selection and manufacturing. The event was organised by Dr.C.Arunachala Perumal, Professor & Head/ECE and coordinated by Dr.A.Lakshmi, Prof/ECE & Mr.G.Sivakumar, AP/ECE.

Glimpses of the event

Day 1-26.02.2025



Inauguration of workshop on “**Printed Circuit Board Design and Analysis: From Idea to Product**” on 26.02.2024 at 10:00 A.M



Dr. C. Arunachala Permal, Professor and Head of the ECE Department, delivered the welcome address by acknowledging the resource person, faculty, and participants. He highlighted the importance of PCB design in electronics and encouraged attendees to actively engage in the workshop for hands-on learning.



Vice Principal Dr. S. Rajakarunakaran delivered the inaugural address,



Principal Dr. L. Ganeshan delivered the felicitation address, appreciating the

highlighting the significance of the workshop and encouraging participants to make the most of the learning opportunities.

initiative behind the workshop and emphasizing its importance in enhancing students' technical skills.

Day 1-26.02.2025



A. Lakshmi, Professor of ECE, introduced the resource person, Dr. N. Pothirasan, and the team members of HASHAN MEDICARE, Rajapalayam. Provided an overview of the workshop on 'Printed Circuit Board Design and Analysis: From Idea to Product'



Mr. G. Sivakumar, Assistant Professor/ECE, delivered the vote of thanks during the inaugural function, expressing gratitude to the organizers, speakers, and attendees for their valuable contributions to the event's success.



The hands-on session using Proteus Simulation Software provided participants with practical exposure to PCB design and circuit analysis

Students learned to simulate and test their designs in a virtual environment, enhancing their understanding of real-time circuit behavior and troubleshooting techniques.

Day 2-27.02.2025



A hands-on session on Schematic Capture using ExpressPCB was conducted to familiarize participants with circuit design and layout techniques.



Students gained practical experience in creating schematics, designing PCB layouts, and understanding the fundamentals of electronic circuit development.



A hands-on session was conducted for PCB etching, ironing, and drilling holes on PCB to mount electronic components.



Participants gained practical knowledge of the fabrication process, enhancing their skills in assembling and developing functional PCB prototypes.

Day 3-28.02.2025



A hands-on session on soldering components onto the PCB provided participants with practical experience in circuit assembly.



Students learned proper soldering techniques to ensure strong connections and improve their PCB assembly skills.



During the Valedictory function, students shared highly positive feedback about the workshop, appreciating its practical insights and hands-on learning experience. They also praised the expertise of the resource person, Dr. N. Pothirasan, for delivering in-depth knowledge and guidance throughout the session.



The workshop concluded with a certificate distribution ceremony, where students who actively participated were awarded certificates in recognition of their engagement and learning.



The TNSCST-sponsored three-day National Level Workshop on “Printed Circuit Board Design and Analysis: From Idea to Product” was held from 26.02.2025 to 28.02.2025. A group photo was taken with the resource person, faculty members, and participants to mark the successful completion of the workshop.