

IGNITE 2024



A DAILY NEWSLETTER

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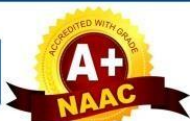
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PLACEMENT NEWS

CORE PLACEMENTS

COUNSELING
CODE

1316

2025
Batch



2.5 LPA

5
Offers

ROBONETICS
AUTOMATION SOLUTIONS LLP

ROBONETICS AUTOMATION SOLUTION

Designation: **TRAINEE ENGINEER**

Five students from final year (Mechanical-3, MHT-1 and MAE-1) got placed in **Robonetics Automation Solution** as **Trainee Engineers** with a CTC of 2.5 LPA. **Robonetics Automation Solution** has independent core technologies for SLAM laser navigation technology, motion control, and remote scheduling systems. And they have pioneered innovative designs such as modular structure design for AGV unmanned forklifts, mini-laser guided unmanned transport vehicles, and hybrid laser and visual guidance technology.

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TRAINING AND PLACEMENT CELL

Organizes

COMPANY SPECIFIC INTERNAL TRAINING

BATCH 2025 PASSOUT

COUNSELING CODE

1316



CEI INDIA PRIVATE LIMITED

Date:
**28th Sep to
1st Oct 2024**

Eligible Department:
**B.Tech-IT, AIDS or
BE Computer Science**

Package:
5 LPA

Job Role:
**TRAINEE
SOFTWARE
ENGINEER**

Company Specific Internal Training for CEI, was conducted for the final year students of CSE, IT and AIDS on 30th SEP 2024, which was founded in 1992, Computer Enterprises Inc. (CEI) is a minority-owned -led, privately held strategic and technology enterprise.

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GALLERY



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CENTRE FOR RESEARCH RENEWAL

 **CENTRE FOR RESEARCH**
ANNA UNIVERSITY
CHENNAI - 600 026

Dr. C.UMARANI
DIRECTOR

Telephone : +91-44-2235 7366/2235 0361
Fax : +91-44-2220 1213
Email : dirresearch@annauniv.edu
dirresearch@gmail.com


Date : 20.09.2024

Lr.No. 1316/RDR/Renewal/ECE/AR2

To
The Principal
Agni College of Technology,
Thalambur,
Kanchipuram 603103

Sir/Madam,

Sub : Anna University - Research Department Recognition - Department of
Electronics and Communication Engineering - Renewal - Orders -
Issued.

Ref : Your Application No.: 16IR2859

I am by direction to inform that the recognition of the Department of Electronics and Communication Engineering of your Institution has been renewed up to June 2027 as per "Common Renewal Session" to do collaborative research for the purpose of pursuing Ph.D./M.S.(By Research) programme.

The recognized supervisors working in the above department may be permitted to guide candidates to carry out Ph.D./M.S.(By Research) programme relevant to their field of specialization. Please refer to Ph.D. and M.S.(By Research) Regulations for additional information.

The above recognition shall be renewed once in three years in compliance with the required norms for Research Department as applicable.

In all future correspondence quote "4131607" for reference.

The next renewal application (available in cfr.annauniv.edu) on fulfilling norms as applicable at the time of renewal along with the renewal fee shall be sent to this office. Renewal can be done three months prior to last date.

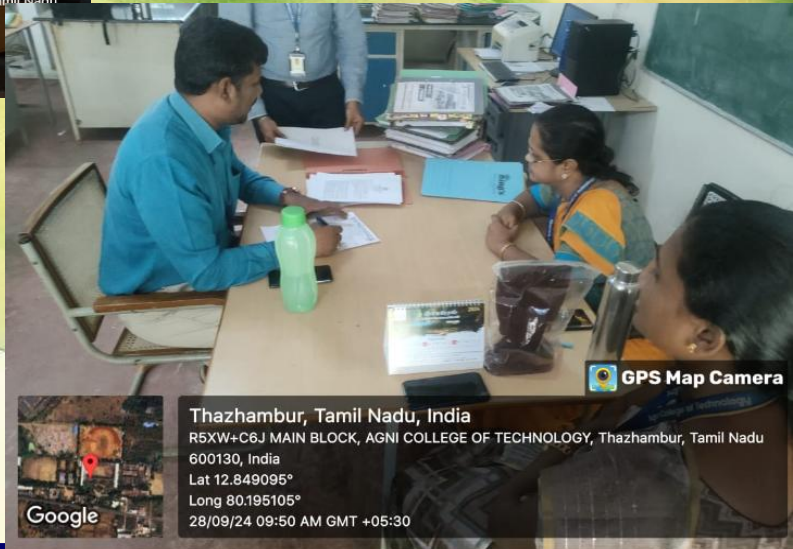
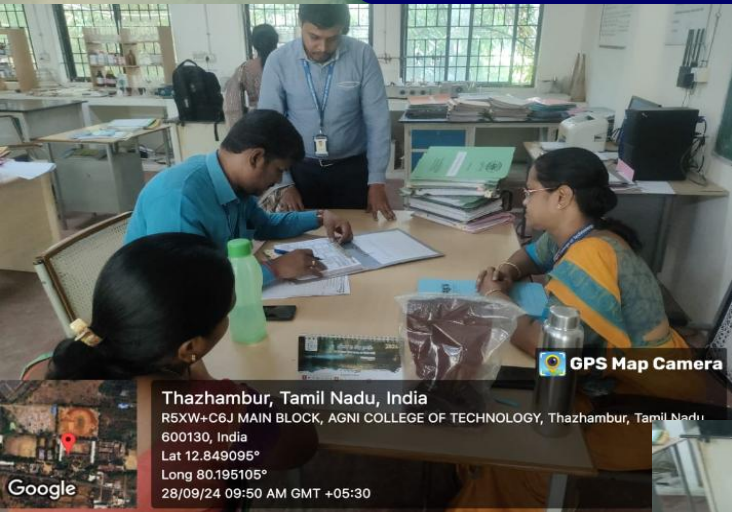

DIRECTOR

By
Srinivasan

The Department of Electronics and Communication Engineering (ECE) received a renewal for our prestigious research center! This significant achievement reflects our ongoing commitment to advancing knowledge and innovation in our field. On behalf of ECE, we sincerely thank our Management, Principal, Dr. Srinivasan Alavandar, and Research Head, Dr. R. Pandiyarajan, Associate Professor/Head, Mechatronics.

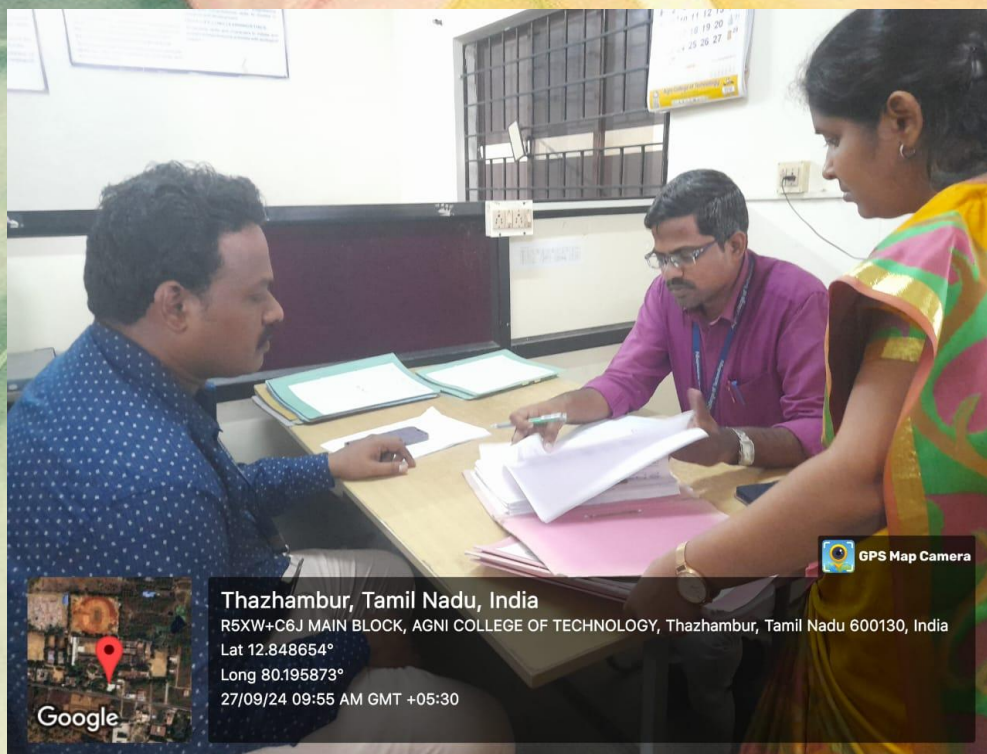
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IQAC AUDIT



Dr. Arul Kulandaivel, Head, S&H, conducted the IQAC Academic Audit in the Department of Civil Engineering. Mrs. R. Beaula Jasmine, Head, Civil, along with the department file coordinators presented the files for the audit on 28th September 2024

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IQAC AUDIT

The First Internal Quality Assurance Cell Audit for the Odd semester of the academic year 2024-2025, was conducted by the Department of Chemical Engineering on 27th September 2024. **Dr. Purushothaman, HOD, Department of Mechanical Sciences**, reviewed the overall progress of the IQAC files, coordinated by **Dr. P. Murugan, Head**, along with the faculty members of the department.

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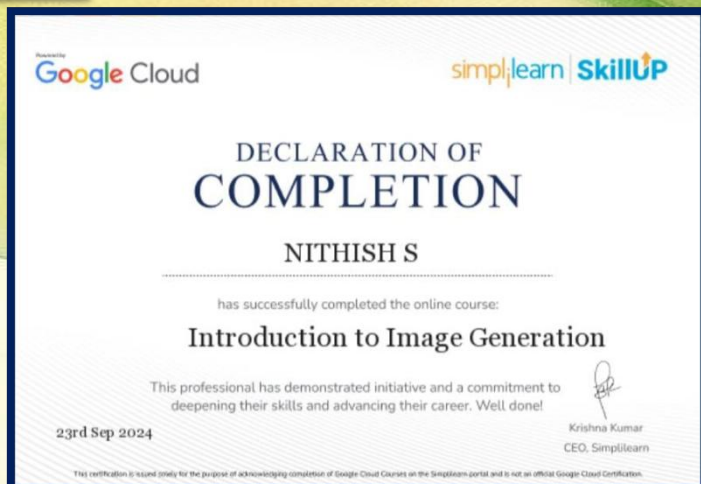
STUDENT ACHIEVEMENT



J. Dharshini Mary (AIDS), a first-year student in the **Department of Science and Humanities**, participated in the **Chief Minister's Trophy** and won a silver medal in Silambam Thodu Potti, which was held on 18th September 2024 at **Nehru Indoor Stadium**. The medal and certificate are distributed on 28th September 2024 by the Chennai district Mayor.

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STUDENT ACHIEVEMENT



S. Jeyanth and S. Nithish (AI&DS), first-year students from the Department of Science and Humanities, have successfully completed the online Courses on “Introduction to Image Generation” provided by Simlilearn SkillUP in the month of September 2024.

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STUDENT ACHIEVEMENT

simplilearn SkillUP

CERTIFICATE OF COMPLETION

Lakshmi Priya R

has successfully completed the online course:
Introduction to Cybercrime

This professional has demonstrated initiative and a
commitment to deepening their skills and advancing
their career. Well done!

23rd Sep 2024

Certificate code : 7397299



Krishna Kumar
CEO, Simplilearn



R. Lakshmi Priya (AI&DS), a first-year student in the department of Science and Humanities, has successfully completed the online Course on **“Introduction to Cybercrime”** provided by Simlilearn SkillUP in the month of September 2024.

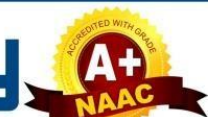
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STUDENT ACHIEVEMENT



CERTIFICATE OF COMPLETION

Presented to

S.Loshini

For successfully completing a free online course
Software Testing Tutorial

Provided by
Great Learning Academy
(On September 2024)

To verify this certificate visit <https://www.mygreatlearning.com/certificate/RDJERIEC>

S. Loshini (AI&DS), a first-year student in the department of Science and Humanities, has successfully completed the online Course on **“Software Testing Tutorial”** provided by Great Learning Academy in the month of September 2024.

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STUDENT ACHIEVEMENT



CERTIFICATE OF COMPLETION

Presented to

S. KIRUTHIKA

For successfully completing a free online course
Smart English Basics for Professionals

Provided by

Great Learning Academy

(On September 2024)

S. Kiruthika (AI&DS), a first-year student in the department of Science and Humanities, has successfully completed the online Course on **“Smart English Basics for Professionals”** provided by Great Learning Academy in the month of September 2024.

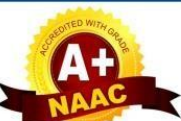
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STUDENT ACHIEVEMENT



CERTIFICATE OF COMPLETION

Presented to
NICKSON. A

For successfully completing a free online course
Smart English Basics for Professionals

Provided by
Great Learning Academy
(On September 2024)



CERTIFICATE OF COMPLETION

Presented to
Shanmugakumaran T

For successfully completing a free online course
Smart English Basics for Professionals

Provided by
Great Learning Academy
(On September 2024)



CERTIFICATE OF COMPLETION

Presented to
J.Arockia Pradheep

For successfully completing a free online course
Smart English Basics for Professionals

Provided by
Great Learning Academy
(On September 2024)

J. Arockia Pradheep, T. Shanmugakumaran and A. Nickson (MHT), first-year students, department of Science and Humanities, have successfully completed the online Course on **“Smart English Basics for Professionals”** provided by Great Learning Academy in the month of September 2024.

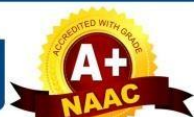
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STUDENT ACHIEVEMENT



CERTIFICATE OF COMPLETION

Presented to

Brahadish N

For successfully completing a free online course
Python for Beginners - Live Course

Provided by

Great Learning Academy

(On September 2024)

N. Brahadish (MHT), a first-year student in the Department of Science and Humanities, has successfully completed the online Course on **“Python for Beginners – Live Course”** provided by Great Learning Academy in the month of September 2024.

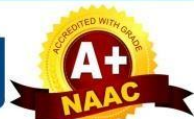
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STUDENT ACHIEVEMENT



CERTIFICATE OF COMPLETION

Presented to
BALA ARAVIND M

For successfully completing a free online course
Introduction to Artificial Intelligence

Provided by
Great Learning Academy
(On September 2024)



CERTIFICATE OF COMPLETION

Presented to
GURU PRASATH G

For successfully completing a free online course
Introduction to Artificial Intelligence

Provided by
Great Learning Academy
(On September 2024)



CERTIFICATE OF COMPLETION

Presented to
Gokul Sanjay.M

For successfully completing a free online course
Introduction to Artificial Intelligence

Provided by
Great Learning Academy
(On September 2024)

M. Gokul Sanjay, G. Guru Prasath and M. Bala Aravind (MHT), first-year students, Department of Science and Humanities, have successfully completed the online Course on **“Introduction to Artificial Intelligence”** provided by Great Learning Academy in the month of September 2024.

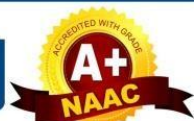
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STUDENT ACHIEVEMENT



CERTIFICATE OF COMPLETION

Presented to

D C Immanuel

For successfully completing a free online course
Google Analytics

Provided by
Great Learning Academy
(On September 2024)



CERTIFICATE OF COMPLETION

Presented to

D C Immanuel

For successfully completing a free online course
Introduction to Artificial Intelligence

Provided by
Great Learning Academy
(On September 2024)



CERTIFICATE OF COMPLETION

Presented to

D C Immanuel

For successfully completing a free online course
Smart English Basics for Professionals

Provided by
Great Learning Academy
(On September 2024)

D. C. Immanuel (MHT), a first-year student in the Department of Science and Humanities, has successfully completed the online Course on **“Introduction to Artificial Intelligence, Google Analytics and Smart English Basics for Professionals”** provided by Great Learning Academy in the month of September 2024.

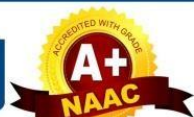
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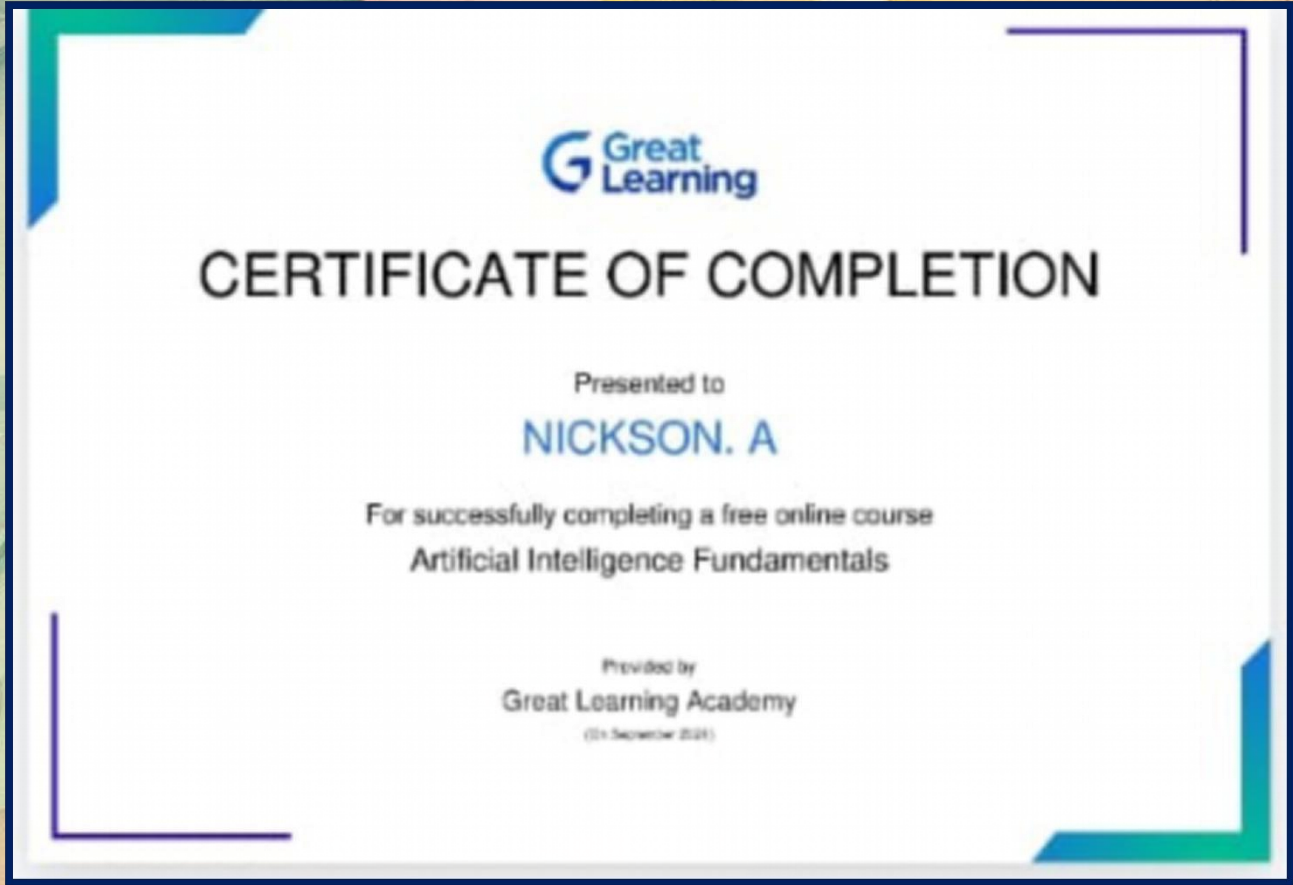
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STUDENT ACHIEVEMENT



A. Nickson (MHT), a first-year student in the Department of Science and Humanities, has successfully completed the online Course on “Artificial Intelligence Fundamentals” provided by Great Learning Academy in the month of September 2024.

STUDENT ACHIEVEMENT



CERTIFICATE OF COMPLETION

Presented to

Swarnalatha. R

For successfully completing a free online course
Data Science Foundations

Provided by

Great Learning Academy

(On September 2024)

R. Swarnalatha (AI&DS), a first-year student in the Department of Science and Humanities, has successfully completed the online Course on **“Data Science Foundations”** provided by Great Learning Academy in the month of September 2024.

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STUDENT ACHIEVEMENT



M. Malarvizhi and Sheethal Shylu (AI&DS), first-year students, Department of Science and Humanities have successfully completed the online Courses on “**Excel for Beginners**” provided by Great Learning Academy in the month of September 2024.

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STUDENT ACHIEVEMENT



S. Sunil Kumar and K. Prithivi (AI&DS), first-year students, Department of Science and Humanities have successfully completed the online Courses on **“Introduction to Generative AI Studio”** provided by Simplilearn SkillUP in the month of September 2024.

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STUDENT ACHIEVEMENT



K. S. Durga Darshini (AI&DS), a first-year student in the Department of Science and Humanities, has successfully completed the online Course on “**Introduction to Responsible AI**” provided by Simplilearn SkillUP in the month of September 2024.

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STUDENT ACHEIVEMENT



Jai Surya G.S., Jai Andru Barnik. A., Yashir. M.H., IIIrd-year students, Department of Civil Engineering, participated in the national-level technical fest and won a second place with a cash award of Rs 1500 in the paper presentation organized by Department of Civil Engineering, SSN College of Engineering, Kalavakam, held on 28th September 2024.

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STUDENT ACHEIVEMENT



Fahad Nawab. N., IInd-Year Student, Department of Civil Engineering, participated in the **Technical Quiz** at a National level technical Symposium organized by the Department of Mechanical Engineering, Dr. M. G. R Educational and Research Institute, held on 28th September 2024.

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STUDENT PARTICIPATION



S. Loshini and S. Sooraj (AI&DS), first-year students in the Department of Science and Humanities, have successfully completed the online Quiz on “**1st National Online Quiz on Mountaineering**” provided by MyGov.

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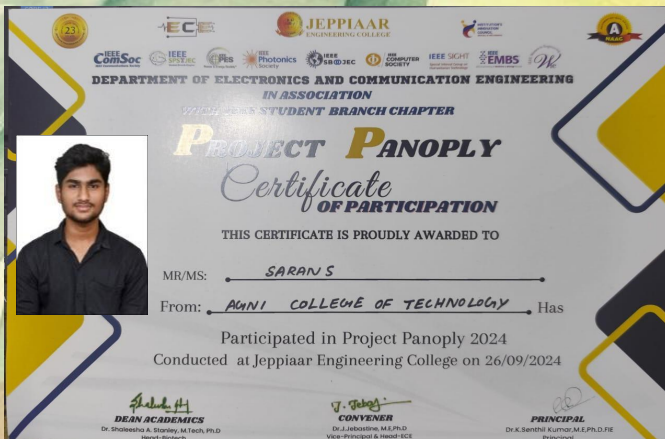
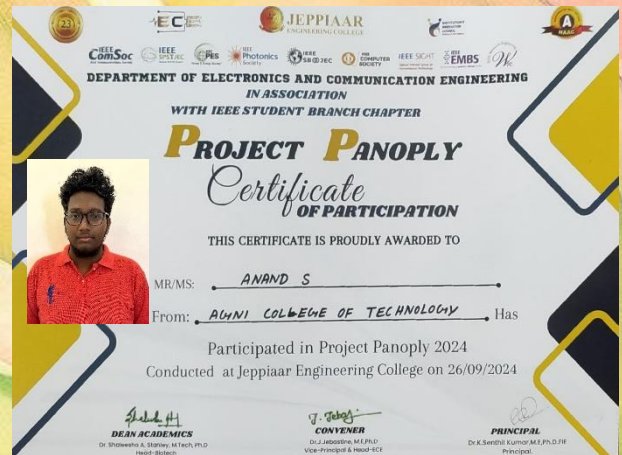
STUDENT PARTICIPATION



M. Sowmiya (AI&DS), a first-year student in the Department of Science and Humanities, has successfully completed the three-online Quiz on “Champions of India: National Sports Day Quiz 2024, Swachh Bharat Mission Grameen Phase –II Quiz and UP International Trade Show 2024 Quiz” provided by MyGov.

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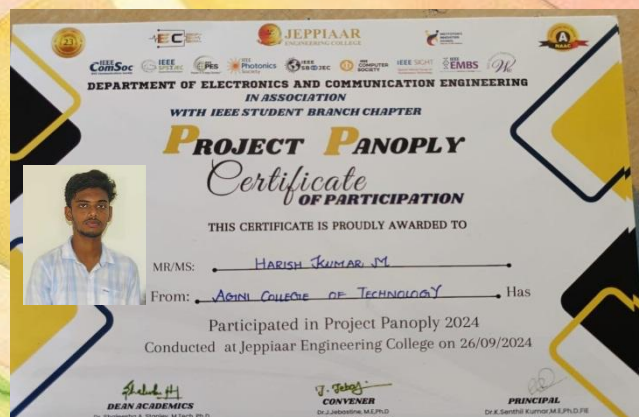
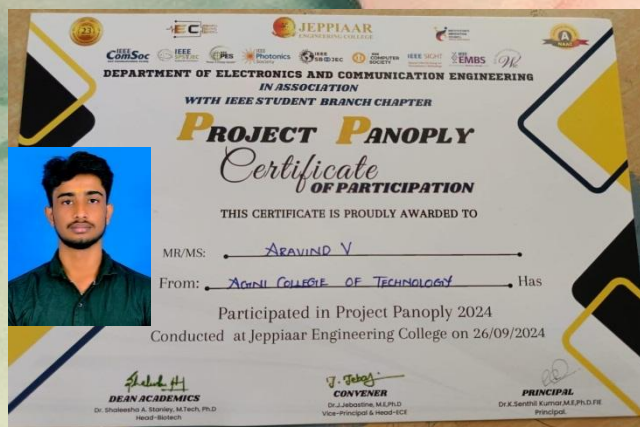
STUDENT PARTICIPATION



M. Manoj, S. Anand, S. Saran, and P. Sai Roshan, IIIrd-Year Students, Department of Electronics and Communication Engineering have participated in the project panoply 2K24 titled “Mechanized Autonomous Robotic Technical Assistance System-Tinker Bot” in association with IEEE students chapter held at Jeppiaar Engineering College on 26.09.24, under the guidance of Ms. D. Maheswari, Assistant Professor/ECE.

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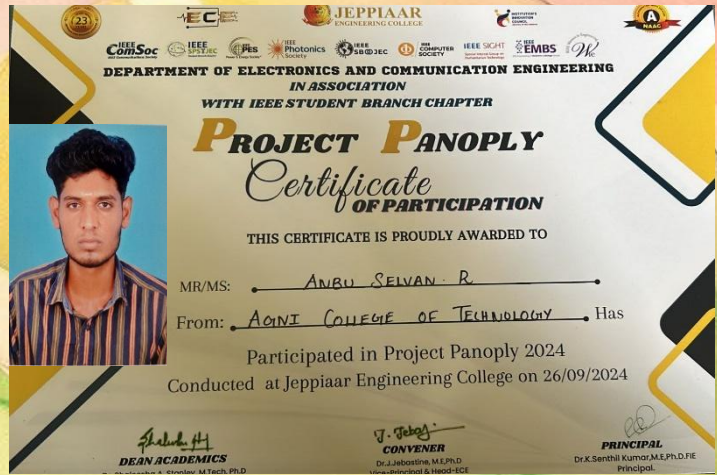
STUDENT PARTICIPATION



M. Sundar, S. Vignesh, V. Aravind, and M. Harish Kumar, IIIrd- Year Students, Department of Electronics and Communication Engineering have participated in the project panoply 2K24 titled “AI-Powered Route Optimization and Obstacle Avoidance for Self-Driving Delivery Systems” in association with IEEE students chapter held at Jeppiaar Engineering College on 26.09.24, under the guidance of Dr. P. Chitra, Assistant Professor/ECE.

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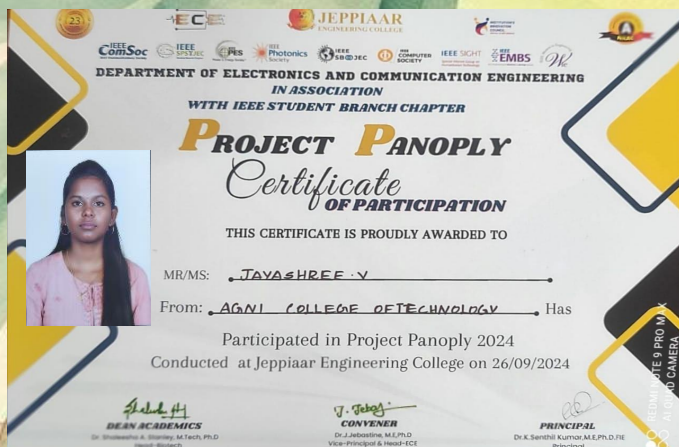
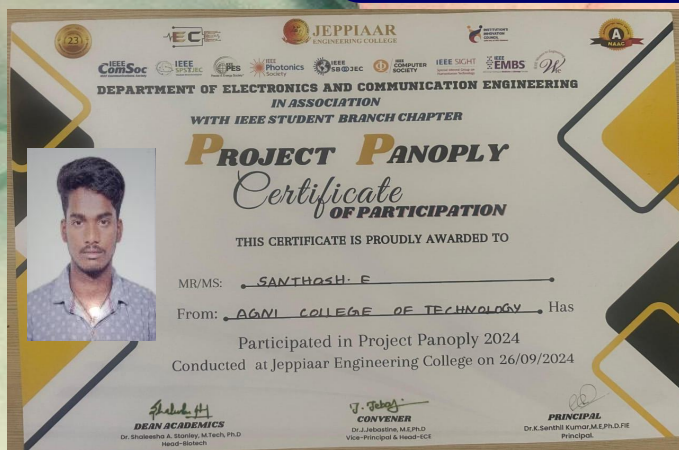
STUDENT PARTICIPATION



N. Siva Murthy, R. Siva Chandran, A. Ashwin, and R. Anbu Selvan, IIIrd-Year Students, Department of Electronics and Communication Engineering have participated in the project panoply 2K24 titled “A Robust Protection System for Indian Women: Intelligent Ring” in association with IEEE students chapter held at Jeppiaar Engineering College on 26.09.24, under the guidance of Dr. J. Rajeswari, Assistant Professor/ECE.

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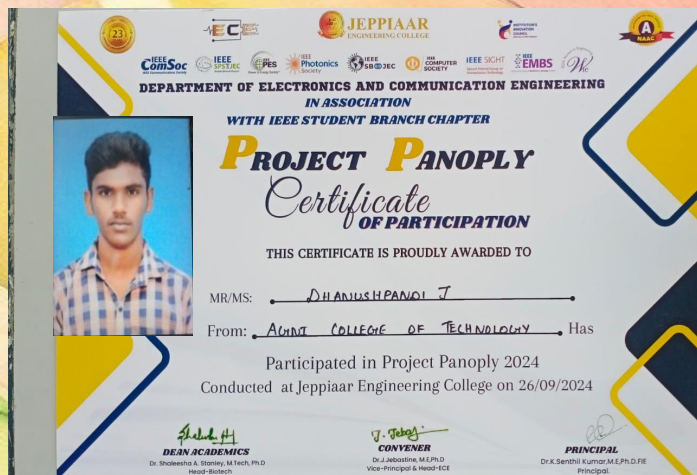
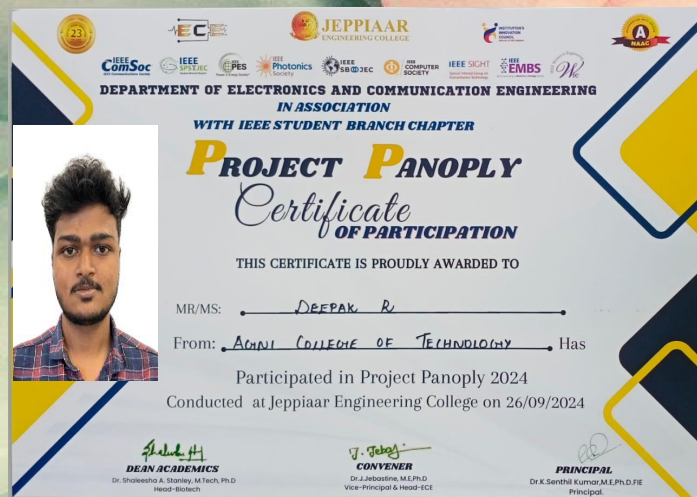
STUDENT PARTICIPATION



E. Santhosh, A. Subratha, V. Jayashree, and L.V. Sheroll Faith, IIrd-Year Students, Department of Electronics and Communication Engineering have participated in the project panoply 2K24 titled “AI-based visual assistance and navigation guidance for visually impaired people” in association with IEEE students chapter held at Jeppiaar Engineering College on 26.09.24, under the guidance of Dr. R. Ratheesh, Assistant Professor/ECE.

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STUDENT PARTICIPATION



R. Deepak, J. Dhanush Pandi, A. Priya Dharshini and K. L. Varsha, IIrd-Year Students, Department of Electronics and Communication Engineering have participated in the project panoply 2K24 titled “Autonomous Medical Drone” in association with IEEE students chapter held at Jeppiaar Engineering College on 26.09.24, under the guidance of Dr. R. Ratheesh, Assistant Professor/ECE.

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STUDENT PARTICIPATION



Sithick Sahil Ahamed Z, IInd-Year Student, Department of Information Technology, participated in the “Swachh Bharat Mission Quiz 2024” organized by MyGov.

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STUDENT PARTICIPATION



Tarun S, IVth-Year Student, Department of Information Technology, participated in the “Level – 1 E – Commerce & Tech Quiz” of the Flipkart GRID 6.0 – Software Development Track organized by the Flipkart.

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STUDENT PARTICIPATION



Ms. Praveena A, IInd-year, B section, Department of Computer Science and Engineering, has successfully completed an Internship program in the domain, “Web Development” from 2nd September 2024 to 29th September 2024 associated with InternPe Pvt Ltd, Chennai.

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FACULTY ACHEIVEMENT

Received: 21 July 2024 | Revised: 30 August 2024 | Accepted: 4 September 2024
DOI: 10.1002/bio.4901

RESEARCH ARTICLE

Fabrication of one-dimensional Zn-doped Bi₂S₃ nanorods for photodiode applications

Jayachandhiran Arumugam¹ | Amal George² | P. Saravanan³ | Subramani Rahul
Alphonse Dhayal Raj² | Mohammed F. Albeshr⁴ | Savarenathan Johnsundaram² |
Thangaswamy Selvankumar⁵ | Duraisamy Karthika⁶ | Jothi Vinoth Kumar⁷

¹Department of Physics, Velammal Engineering College (Autonomous), Chennai, India
²Department of Physics, Sacred Heart College (Autonomous), Tirupattur, Affiliated to Thiuvalluvar University, Vellore, Tamil Nadu, India
³Department of Chemistry, St. Joseph's College of Engineering, Chennai, Tamil Nadu, India
⁴Department of Zoology, College of Sciences, King Saud University, Riyadh, Saudi Arabia
⁵Biomaterials Research Unit, Center for Global Health Research, Saveetha Medical College and Hospitals, Saveetha Institute of Medical and Technical Sciences, Saveetha University, Chennai, Tamil Nadu, India
⁶Department of Chemical Engineering, Agni College of Technology, Thazhambur, Tamil Nadu, India
⁷BioNanocomposite Research Center, Department of Food and Nutrition, Kyung Hee University, Seoul, Republic of Korea

Correspondence
Jayachandhiran Arumugam, Department of Physics, Velammal Engineering College (Autonomous), Chennai 600 066, India.
Email: arumugamphy2289@gmail.com

Funding information
King Saud University, Grant/Award Number: RSP2024R436

Abstract
In this research, the impact of the different zinc (Zn) concentrations on the physical and optoelectronic properties of Bi₂S₃ nanorods as self-powered and photodiode applications was investigated. The performance of P-N junction photodiodes has been for decades since they are crucial in energy applications. The structure, degree of crystallinity, and shape of Zn-doped Bi₂S₃ nanorods of various doping percentages formed onto the indium tin oxide (ITO) substrates by the dip coating technique are investigated using X-ray powder diffraction (XRD) and SEM. With increasing illumination time, the current-voltage (I-V) graphs demonstrate a rise in photocurrent. The diode's idealist factor was estimated using the I-V technique under 30 min of light illumination.

KEYWORDS
photocurrent, photodiodes, P-N junction, Zn-doped Bi₂S₃ nanorods



1 | INTRODUCTION

In the past decades, photovoltaics has seen a considerable interest in the efficiency of energy conversion devices [1]. Their appearance emerges from their ability to combine the processing benefits that project the attractive properties of organic photovoltaics with the outstanding properties of inorganic compounds, such as enlarged charge carrier mobilities, high dielectric permittivity, low cost of production, and enhanced chemical stability [2]. Light is converted to electrical energy using photodiodes, which are semiconductor devices. Photodiode's optical and electrical features are critical in optoelectronic applications. In the world of digital engineering, photodiodes represent a revolution. They progressively occupied a variety of regions that are extremely stunning in today's lifestyle. Compact disc players, photodiodes, smoke detectors, space applications, optical communication, and medical applications are some of them worth mentioning. Because photodiodes play such an important role in electronics, scientists have been working to develop low-cost photodiode

Luminescence. 2024;39:e4901.
<https://doi.org/10.1002/bio.4901>

wileyonlinelibrary.com/journal/bio

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Mrs. C.D. Karthika, Assistant Professor, Department of Chemical Engineering published a paper entitled “**Fabrication of One-dimensional Zn-doped Bi₂S₃ nanorods for photodiode applications**” in Luminescence journal accepted on 04th September 2024 with Impact Factor 2.464.

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FACULTY ACHIEVEMENT



Ishwarya M.V
Gopinath N
Sharmila L

UI AND UX DESIGN



Dr. Ishwarya M.V., Associate Professor and Head of the Department of Artificial Intelligence and Data Science, published a book titled “UI AND UX DESIGN”, under the publication “LAP LAMBARD ACADEMIC PUBLISHING”, an international publication with ISBN on 29th SEP 2024.

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ACCEPTED MANUSCRIPT
Characterization of Graphite and ZrO₂ Reinforced Aluminium Metal Matrix Composite For Enhanced Mechanical Properties in Electronics Applications
Duraimurugan I¹ , K. Anandavelu² and Pandiyarajan R³
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Dr. R. Pandiya Rajan, Professor, Head of Mechatronics dept, has successfully published a paper titled “Characterization of Graphite and Zro2 Rein forced Aluminium Metal Matrix Composite for Enhanced Mechanical Properties in Electronics Applications” in the IOP Science journal.

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FACULTY PARTICIPATION



Dr. Sureka N, Assistant Professor/ HOD BME, Mrs. Bilna C, Assistant Professor, Ms. Himali Barman, Assistant Professor, attended the IEEE CAS Faculty Development Program (FDP) on "Design and Application of Semiconductor Devices" held from 5th August 2024 to 10th August 2024.

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FACULTY PARTICIPATION



ST.JOSEPH'S COLLEGE OF ENGINEERING AND TECHNOLOGY

A.S.Nagar, Elupatti, Thanjavur

(Affiliated to Anna University - Chennai, Approved by AICTE - New Delhi)



CERTIFICATE OF PARTICIPANTS

This is to certify that Dr. P. Balakrishnan
AP/PHYSICS of Agni College of Technology,
Chennai.

has participated in Five Days online Faculty Development Programme on "Recent Innovations in Mechanical Engineering" organized by Department of Mechanical Engineering from 16 Sep 2024 to 21 Sep 2024.


Head of the Department
(MECH)


Principal

Made for free with Certify'em

Dr. P. Balakrishnan, Assistant Professor, Department of Science and Humanities (Physics) participated in the Five-Day online **Faculty Development Programme** on "**Recent Innovations in Mechanical Engineering**" organized by the Department of Mechanical Engineering from 16th to 21st September 2024.

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SEMINAR

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**DEPARTMENT OF MECHANICAL SCIENCES
&
DESIGN CLUB**
Organises
A SEMINAR
on
**TOOLS AND METHODS TO ELEVATE
RENDERING QUALITY IN DESIGN**






SPEAKER
Mr. Saravanan Sundar
Sr.Design Engineer,
Tamil Nadu Centre of Excellence for
Advanced Manufacturing,Chennai

28.09.2024
9.30am
Haritha Lab

Faculty Coordinator
Mr.K.Saravanan AP/Mech
Mr.C.Anand AP/ASE

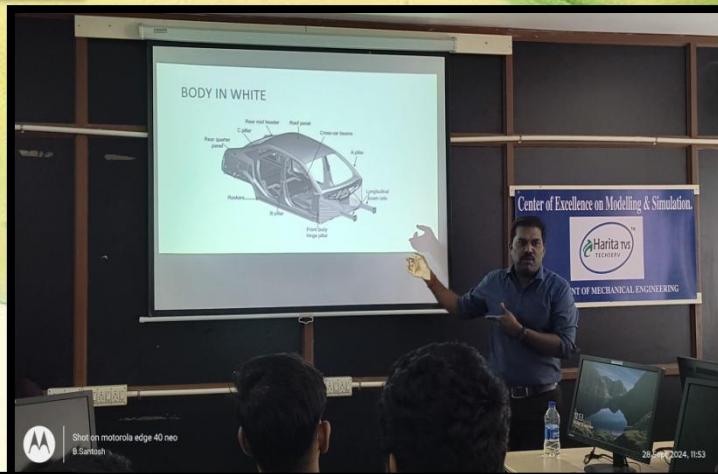
Dr. P. Purushothaman
Head of the Department

Dr. Srinivasan Alavandar
Principal

The Department of Mechanical Science and the Agni Design Club jointly organized a Seminar on "Tools and Methods to Elevate Rendering Quality in Design." The speaker, Mr. Saravanasundar, Senior Design Engineer at the Tamil Nadu Center of Excellence for Advanced Manufacturing, presented on 28th September 2024 at the Haritha Lab. A glimpse of the event can be found in the gallery.

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GALLERY



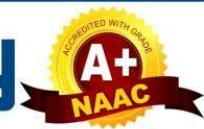
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PROJECT COMPETITION



The Department of **Computer Science and Engineering** conducted **Project Competition** for IIIrd yr CSE students. The project was evaluated by an industry expert, **Mr. R. Ganesh Prabhu**, Senior Manager, **Verizon India Pvt Ltd** on **28.09.2024**. The Principal, Dean academics and HoD of CSE gave a special address. The project was coordinated by Mrs. A. Suganya, AP/CSE.

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INDUSTRIAL VISIT



The Students of Mechatronics visited **CSIR (council of Scientific & Industrial Research)**, Taramani for an industrial visit to broaden their Industrial exposure.

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GALLERY



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DEPARTMENT MEETING

Dr. R. Ratheesh, Assistant Professor, **Department of Electronics and Communication Engineering** conducted the department meeting with all faculty members to discuss, IAT exam norms for students and faculty members, IQAC file update, department event planning, industrial visit, and coaching class held on 30.09.2024.

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DEPARTMENT MEETING



Dr Sureka N, Assistant Professor/HOD, Department of Biomedical Engineering, conducted the department meeting held on 30th September 2024. The agenda includes: Instruction on Exam Invigilation duty responsibilities and general instructions were discussed.

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PARENT TEACHERS MEETING



Dr. P. Murugan, Head of the Department, Chemical Engineering had a meeting with the parents of Gokul. I, Second year Chemical Engineering student on 26th September 2024. The discussion is about the academic performance of the student.

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**PARENT TEACHERS
MEETING**



Dr. Ishwarya M.V., Associate Professor and Head of the Department of Artificial Intelligence and Data Science had a meeting with the parents of Vasikaran A. The meeting was regarding the student's discipline, and his overall performance was held on 30. 09. 2024.

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