

NEWS LETTER



July – December 2023

Issue: 01

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Student Members:

20L214 – Gopi P

IV EC B

717821L314 – Gunabharath K

III EC C

717821L216 – Jagath M

III EC B



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DEPARTMENT @ GLANCE

B.E. Electronics and Communication (EC) Engineering offered at Karpagam College of Engineering and established in the year 2000. The department has experienced and qualified faculty members, well equipped laboratory such as DSP lab, MEMS Lab, Communication and Microwave Engineering Lab, LIC / Digital Lab, VLSI Design Lab, Network sand Simulation and Electron Devices Lab with availability of latest and updated version of software package. The department has also promoted different center of excellence for MEMS Research and Development (CMRD), Centre for Signal Processing Research and Development (CSPRD), Centre for Embedded system Research and Development (CESRD), Centre for Image and Video Processing Research and Development (CIVRD), Centre for VLSI Design and Development (CVDD) and Centre for Research Communication and Wireless Network (CRCWN) for developing research activities in the field of Electronics and Communication Engineering.



VISION OF THE DEPARTMENT

- ❖ To be recognized as a premier department for delivering competent Electronics and Communication Engineers with socio-ethical responsibility.

MISSION OF THE DEPARTMENT

- ❖ Adapting innovative pedagogical methodologies for effective curriculum delivering.
- ❖ Establishing Centre of Excellence in various domains for fostering collaborative research and innovation related pursuits.
- ❖ Inculcating ethics, social responsibility with inclusive leadership skills.
- ❖ Incubating entrepreneurship ventures and imparting employability skills.

PROGRAMME EDUCATIONAL OBJECTIVES (PEO)

PEO1: Graduates will be professionals in Electronics and Communication Engineering/allied industries, pursue higher studies or entrepreneurs

PEO2: Graduates will be executing multidisciplinary projects with leadership skills, social responsibility and ethics

PEO3: Graduates will be design and develop technical solutions for contemporary technological engineering problems with continual learning

PROGRAMME SPECIFIC OUTCOMES (PSO)

PSO1: Good knowledge and hands-on competence to solve emerging real-world problems related to Electronic Devices and Circuits, Communication Systems, Digital Systems, and Electro-magnetics

PSO2: Demonstrate proficiency in specialized software packages and computer programming useful for the analysis/design of electronic engineering systems and profession



**DEPARTMENT OF
ECE**



INDUSTRY INSTITUTE PARTNERSHIP CELL (IIPC)

(Centre of Excellence / MoU's / Collaboration Activities / Partial Delivery)

- The Department of EC signed MoU with **Gateway Software solution, Coimbatore**, under SPOC of Dr. S. Deepa, ASP/EC.
- In view of Alumni Interaction, **Career Guidance – Opportunities in IT Industries** has been conducted on 24th August 2023 for 3rd year students. Mr. Balamurugan G (Class of 2023) acted as resource person for the event.



Fig. 1. Mr. Balamurugan G (Software Engineer, iLink Digital, Coimbatore) addressing the students.

- In view of Alumni Interaction, **Guidance for Higher Studies Program** has been conducted on 30th August 2023 for 3rd year students. Mr. Prasanna Balaji T (Class of 2023) acted as resource person for the event.

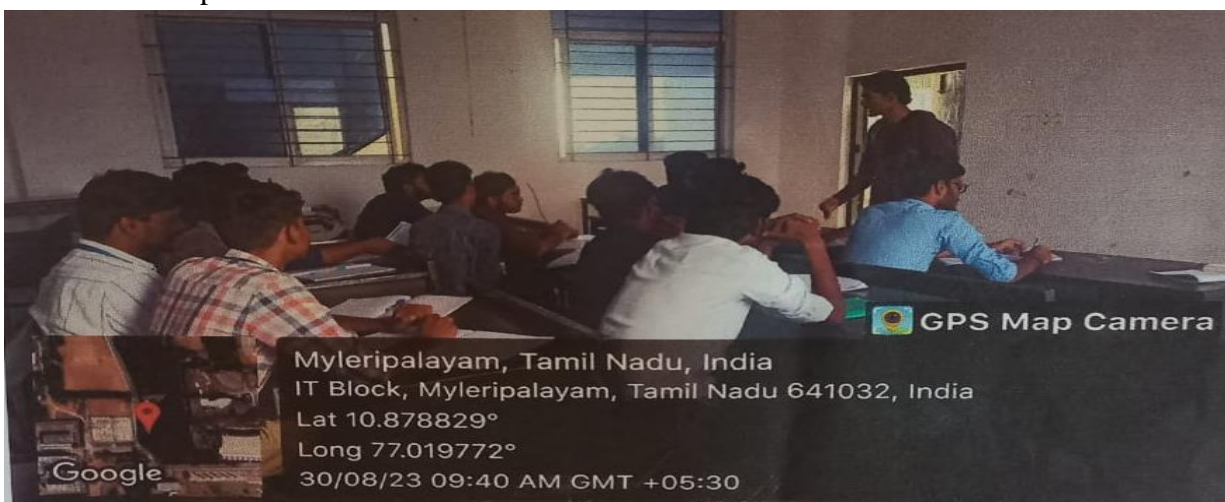


Fig. 2. Mr. Prasanna Balaji T (Software Analyzer, CTS, Bangalore) addressing the students.

- **Mr.S.Ram Prasath**, AP/EC and **Mr.C.Mukuntharaj**, AP/EC visited **Enthu Technologies India Private Limited, Peelamedu, Coimbatore** on 31.08.2023 on behalf of Department of EC through IIPC cell.



Fig. 3. Our FM's at Enthi Technology solutions, India pvt ltd.

- **Dr. S. Deepa**, ASP/EC and **Mrs. S. Malini**, AP/EC organized the Partial delivery on the course 21ED23 – Computer Networks by the industry expert **Mr. M. Sabarinathan, Sr. Technical Manager, Gateway Software Solutions, Coimbatore**, on 31st August 2023 and 16th September 2023.
- The following Centre of Excellences (CoE) are initialized in the department of EC
 - ✓ Centre of excellence for VLSI Design
 - ✓ Centre of excellence for Embedded Systems
 - ✓ Centre of excellence for Antenna design



FACULTY CORNER

Faculty Grants / Research Consultancy / Seed money

- **Dr. G. Saravanakumar**, as a co-principal investigator, has received project grant of **Rs. 1,04,00,780** and from **Department of Science and Technology [DST]** for the Project titled “Camellia-IDrone: An Intelligent Automatic System for the Pest Infestation Assessment and Spraying Intervention in Tea Plants of North East Region” in month of June 2023.
- **Dr. A. Rajendran** has received seed money of **Rs: 75,000/-** for the project titled “Smart reminder medicine box using IOT” on 29th September 2023.

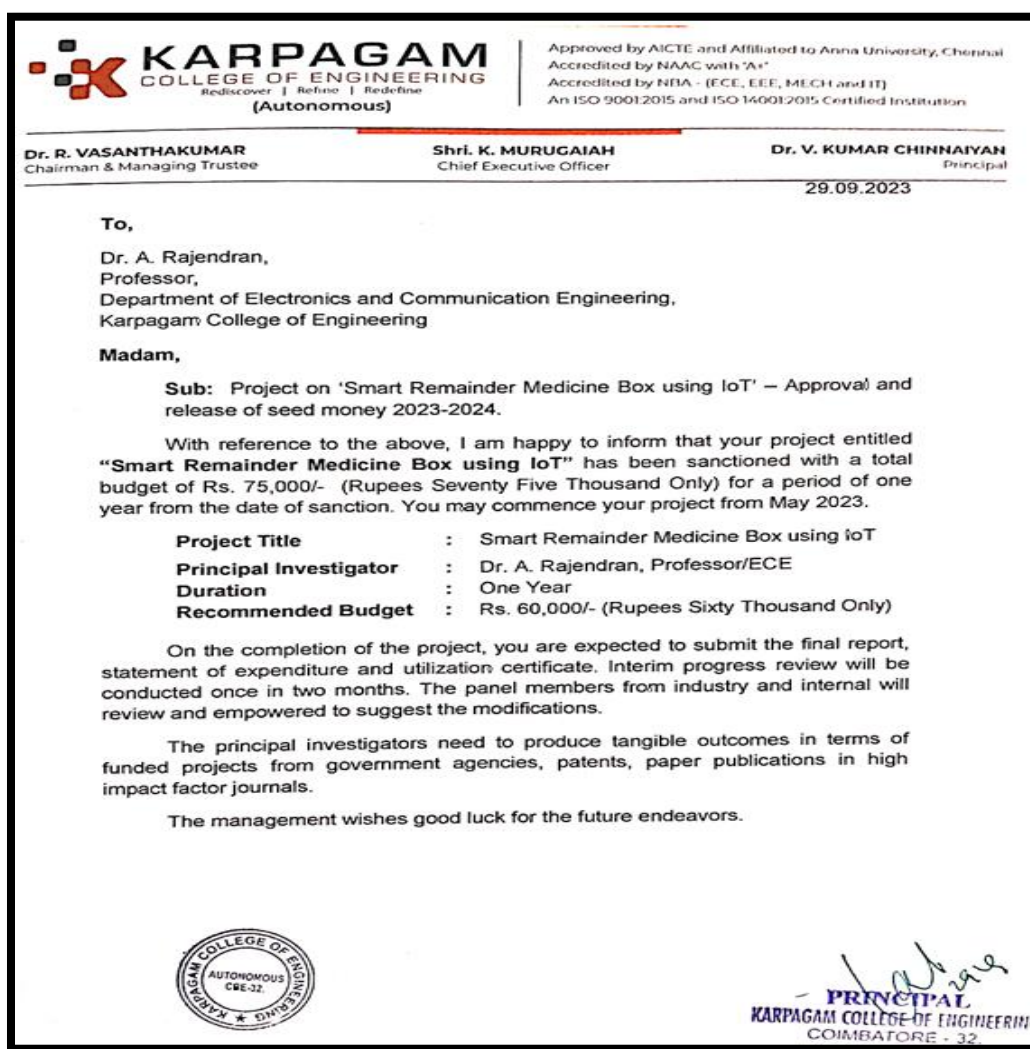


Fig. 4. Dr. A. Rajendran, Prof/EC received approval letter for Seed money.

- **Dr. M. Annalakshmi** has received seed money of **Rs: 37,500/-** for the project titled “Recognition of different medicinal plants using deep learning approach” on 29th September 2023.

KARPAGAM
COLLEGE OF ENGINEERING
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(Autonomous)

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Accredited by NBA - (ECE, EEE, MECH and IT)
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Dr. R. VASANTHAKUMAR
Chairman & Managing Trustee

Shri. K. MURUGAIAH
Chief Executive Officer

Dr. V. KUMAR CHINNAIYAN
Principal

29.09.2023

To,

Dr. M. Annalakshmi,
Assistant Professor,
Department of Electronics and Communication Engineering,
Karpagam College of Engineering

Madam,

Sub: Project on 'Waste Management: Compost from Plant Wastage' –
Approval and release of seed money 2023-2024.


With reference to the above, I am happy to inform that your project entitled
“**Waste Management: Compost from Plant Wastage**” has been sanctioned with a
total budget of Rs. 37,500/- (Rupees Thirty Seven Thousand Five Hundred Only) for
a period of one year from the date of sanction. You may commence your project
from May 2023.

Project Title	: Waste Management: Compost from Plant Wastage
Principal Investigator	: Dr. M. Annalakshmi, Assistant Professor/ECE
Co-Principal Investigator	: Dr. R. Suguna, Assistant Professor/ECE
Duration	: One Year
Recommended Budget	: Rs. 37,500/- (Rupees Thirty Seven Thousand Five Hundred Only)

On the completion of the project, you are expected to submit the final report,
statement of expenditure and utilization certificate. Interim progress review will be
conducted once in two months. The panel members from industry and internal will
review and empowered to suggest the modifications.

The principal investigators need to produce tangible outcomes in terms of
funded projects from government agencies, patents, paper publications in high
impact factor journals.

The management wishes good luck for the future endeavors.



PRINCIPAL
KARPAGAM COLLEGE OF ENGINEERING
COIMBATORE - 32

S.F.No. 758, 759, 760, Othakkal Mandapam, Coimbatore - 641032
Phone - 0422 - 2619005, 06
E-mail: office@kce.ac.in | Web: www.kce.ac.in

Administrative Office:
Pollachi Main Road, Eachanari Post, Coimbatore - 641021
Phone - 0422 - 2980011, 12 | Fax - 0422 - 2980022

Fig. 5. Dr. M. Annalakshmi, Prof/EC received approval letter for Seed money.

- **Dr. G. Saravanakumar** has received seed money of **Rs: 80,000/-** for the project titled “Development of Testing of Machine Learning based tool- PARACELSUS for Toxicity End Point Estimation of Drug Candidates” on 29th September 2023.




 KARPAGAM COLLEGE OF ENGINEERING Rediscover Refine Redefine (Autonomous)		Approved by AICTE and Affiliated to Anna University, Chennai Accredited by NAAC with 'A+' Accredited by NBA - (ECE, EEE, MECH and IT) An ISO 9001:2015 and ISO 14001:2015 Certified Institution								
Dr. R. VASANTHAKUMAR Chairman & Managing Trustee	Shri. K. MURUGAIAH Chief Executive Officer	Dr. V. KUMAR CHINNAIYAN Principal								
29.09.2023										
To, Dr. G Saravanakumar, Professor, Department of Electronics and Communication Engineering, Karpagam College of Engineering										
Madam, Sub: Project on 'Development of Testing of Machine Learning based tool – PARACELSUS for Toxicity End Point Estimation of Drug Candidates' – Approval and release of seed money 2023-2024. With reference to the above, I am happy to inform that your project entitled “Development of Testing of Machine Learning based tool – PARACELSUS for Toxicity End Point Estimation of Drug Candidates” has been sanctioned with a total budget of Rs. 80,000/- (Rupees Eighty Thousand Only) for a period of one year from the date of sanction. You may commence your project from May 2023. <table><tr><td>Project Title</td><td>: Development of Testing of Machine Learning based tool – PARACELSUS for Toxicity End Point Estimation of Drug Candidates</td></tr><tr><td>Principal Investigator</td><td>: Dr. G Saravanakumar, Professor/ECE</td></tr><tr><td>Duration</td><td>: One Year</td></tr><tr><td>Recommended Budget</td><td>: Rs. 80,000/- (Rupees Eighty Thousand Only)</td></tr></table> On the completion of the project, you are expected to submit the final report, statement of expenditure and utilization certificate. Interim progress review will be conducted once in two months. The panel members from industry and internal will review and empowered to suggest the modifications. The principal investigators need to produce tangible outcomes in terms of funded projects from government agencies, patents, paper publications in high impact factor journals. The management wishes good luck for the future endeavors.			Project Title	: Development of Testing of Machine Learning based tool – PARACELSUS for Toxicity End Point Estimation of Drug Candidates	Principal Investigator	: Dr. G Saravanakumar, Professor/ECE	Duration	: One Year	Recommended Budget	: Rs. 80,000/- (Rupees Eighty Thousand Only)
Project Title	: Development of Testing of Machine Learning based tool – PARACELSUS for Toxicity End Point Estimation of Drug Candidates									
Principal Investigator	: Dr. G Saravanakumar, Professor/ECE									
Duration	: One Year									
Recommended Budget	: Rs. 80,000/- (Rupees Eighty Thousand Only)									
										
 PRINCIPAL KARPAGAM COLLEGE OF ENGINEERING COIMBATORE - 32.										
Administrative Office: S.F.No. 758, 759, 760, Othakkal Mandapam, Coimbatore - 641032 Phone - 0422 - 2619005, 06 E-mail: office@kce.ac.in Web: www.kce.ac.in Pollachi Main Road, Eachanari Post, Coimbatore - 641021 Phone - 0422 - 2980011,12 Fax - 0422 - 2980022										

Fig. 6. Dr. G. Saravanakumar, Prof/EC received approval letter for Seed money.

Faculty Awards / Achievements/ Patents

- **Dr. T. K. Sethuramalingam, ASP/EC** has design patent “AUTOMATIC FERTILIZER DISPENSER ROBOT” on 14th December 2023 (Patent No: 397065-001).
- **Dr. S. Deepa ASP/EC** has utility patent “APPARATUS FOR CRYSTAL GROWTH IN VACUUM AND A METHOD THEREOF” on 30th August 2023 (Patent No: 202141057590).
- **Dr. S. Deepa ASP/EC** has utility patent “AN APPARATUS FOR CLEANING A STORAGE TANK” on 05th September 2023 (Patent No: 201741017415).
- **Dr. S. Deepa ASP/EC** has design patent “DUCT AIR PURIFIER” on 29th September 2023 (Patent No: 389587-001).
- **Dr. A. Rajendran, prof/EC** got awarded with **Elite plus Gold and Topper with 5%** in NPTEL for the Course “Accreditation and Outcome Based Learning”.



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to
DR RAJENDRAN A
for successfully completing the course
Accreditation and Outcome Based Learning

with a consolidated score of **90** %

Online Assignments	24.13/25	Proctored Exam	65.5/75
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Total number of candidates certified in this course: **1356**

Aug-Oct 2023
(8 week course)



Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL23GE46S733800380



To verify the certificate



No. of credits recommended: 2 or 3

Fig. 7. Dr. A. Rajendran, Prof/EC secured elite plus gold and topper with 5% in NPTEL.

- Mrs. S. Malini, AP/EC got awarded with **Elite plus Gold and Topper with 5%** in NPTEL for the Course “Introduction to Internet of Things”.



Elite

NPTEL Online Certification




(Funded by the MoE, Govt. of India)

This certificate is awarded to
S MALINI
for successfully completing the course
Introduction to Internet of Things
with a consolidated score of **90** %

Online Assignments	23.91/25	Proctored Exam	66/75
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Total number of candidates certified in this course: **25880**

Jul-Oct 2023
(12 week course)



Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



FREE ONLINE EDUCATION
swayam
विद्यया ऽमृतं, ज्ञानं मृतम्

Roll No: NPTEL23CS83S93380223

To verify the certificate



No. of credits recommended: 3 or 4

Fig. 8. Mrs. S. Malini, AP/EC secured elite plus gold and topper with 5% in NPTEL.



- **Dr. M Tamil Nidhi, AP/EC**, acted as keynote speaker with topic “Role of IoT in Healthcare” in the International conference on “Recent Trends in Science, Engineering and Technology – 2023” held on 22nd December 2023.



Fig. 9. Dr. M. Tamil Nidhi, AP/EC acted as keynote speaker in the international conference.



Faculty Participation – Seminar / Webinar / Workshop / FDP / STTP

- **Dr. S. Sobana**, Associate Professor attended *AICTE Training and Learning (ATAL) Academy* Faculty Development Program on "Applications of IoT Integrated Wireless Biosensors in Diagnosing Public Health Issues" at Hindustan College of Engineering and technology from 11th to 16th December 2023.
- **Dr. T. K. Sethuramalingam**, Associate Professor attended *AICTE Training and Learning (ATAL) Academy* Faculty Development Program on "Applications of IoT Integrated Wireless Biosensors in Diagnosing Public Health Issues" at Hindustan College of Engineering and technology from 11th to 16th December 2023.
- **Dr C. Priya**, Associate Professor attended one-week National Level Faculty Development Program on “Cloud Infrastructure and AWS Technology” at Nandha Engineering College from 21th to 25th August 2023.
- **Mr. G. Arun Francis** Assistant Professor attended five days Faculty Development Program on “Design of High-frequency Antennas for Real-time Applications (DHARA-2023)” at Nandha Engineering College from 21th to 25th August 2023.
- **Mrs. T. Happila** Assistant Professor attended five days Faculty Development Program on “Design of High-frequency Antennas for Real-time Applications (DHARA-2023)” at Nandha Engineering College from 21th to 25th August 2023.
- **Mr C. Mukunthraj** Assistant Professor attended Workshop on “VLSI to System Design: Silicon to End Application Approach” at Arm Education and ST Microelectronics from 31st to 04th August 2023.
- **Dr R. Selvakumar** Assistant Professor attended Workshop on “VLSI to System Design: Silicon to End Application Approach” at Arm Education and ST Microelectronics from 31st to 04th August 2023.
- **Mr S.Ramprasath** Assistant Professor attended Workshop on “VLSI to System Design: Silicon to End Application Approach” at Arm Education and ST Microelectronics from 31st to 04th August 2023.
- **Dr R.Suguna** Assistant Professor attended Workshop on “VLSI to System Design: Silicon to End Application Approach” at Arm Education and ST Microelectronics from 31st to 04th August 2023.
- **Dr. R. Sarankumar**, Professor & Head has completed NPTEL course on “Accreditation and Outcome Based Learning” with Elite plus Silver.
- **Dr. A. Rajendran**, Professor has completed NPTEL course on “Accreditation and Outcome Based Learning” with Elite plus Gold and **secured 5% topper**.
- **Dr. G Saravanakumar**, Professor has completed NPTEL course on “Deep Learning” with Elite plus Silver.
- **Dr. G Saravanakumar**, Professor has completed NPTEL course on “Python for Data Science” with Elite.
- **Dr M Annalakshmi**, Professor has completed NPTEL course on “Hardware Modeling Using Verilog” with Elite plus Silver.

- **Dr. C. Priya**, Associate Professor has completed NPTEL course on “Soft Skills” with Elite plus Silver.
- **Dr. S Deepa**, Associate Professor has successfully completed NPTEL course on “The Joy of Computing Python”.
- **Dr. S. Sobana**, Associate Professor has completed NPTEL course on “Introduction to Industry 4.0 and Industrial Internet of Things” with Elite.
- **Dr. R. Suguna**, Assistant Professor has completed NPTEL course on “Hardware Modeling Using Verilog” with Elite.
- **Dr. R. Selvakumar**, Assistant Professor has completed NPTEL course on “VLSI Design Flow: RTL to GDS” with Elite plus Silver.
- **Mr. C. Mukuntharaj**, Assistant Professor has completed NPTEL course on “Hardware Modeling Using Verilog” with Elite.
- **Mr. NM Jayadevan**, Assistant Professor has completed NPTEL course on “Basic Electrical Circuits” with Elite.
- **Ms. L Saranya**, Assistant Professor has completed NPTEL course on “VLSI Design Flow:RTL to GDS” with Elite.
- **Ms. L Saranya**, Assistant Professor has completed NPTEL course on “Technical English for Engineers” with Elite plus Silver.
- **Ms. S Malini**, Assistant Professor has completed NPTEL course on “Introduction to Internet of Things” with Elite plus Gold and **secured 5% Topper**.
- **Ms. T Happila**, Assistant Professor has completed NPTEL course on “Digital Image Processing” with Elite.
- **Ms. S Tharanipriya**, Assistant Professor has successfully completed NPTEL course on “Introductory Neuroscience & Neuro-Instrumentation”.
- **Ms. K Sudha**, Assistant Professor has successfully completed NPTEL course on “Digital Circuits”.
- **Ms. PK Ghibitha Bebin**, Assistant Professor has completed NPTEL course on “Digital Circuits” with Elite.
- **Ms. P Archana**, Assistant Professor has successfully completed NPTEL course on “Introduction to Machine Learning (Tamil)”.



Faculty Publications – Books / Conferences / Journals

- **Ms. Archana. P.** has published paper titled “Face recognition-based vehicle starter using machine learning”
- **Dr. Suguna. R.** has published paper titled “Pulse Jamming Attack Detection using Swarm Intelligence in Wireless Sensor Networks”
- **Ms. Malini. S.** has published paper titled “A Web based Optimized Hybrid Power Management with IOT”
- **Ms. Malini. S.** has published paper titled “Embedded based Smart Accident Pre-alert prevention system with Machine Learning”
- **Dr. Annalakshmi. M.** has published paper titled “An approach to deep learning based on Discrete wavelet transform for the diagnosis of epilepsy”
- **Dr. Annalakshmi. M.** has published paper titled “Age Group Classification based on Bins of Gradients over Gradient Hessian space facial Images”
- **Dr. Saravanakumar. G.** has published paper titled “A Ddos Attack Categorization and Prediction Method Based on Machine Learning”
- **Dr. Tamilnidhi. M.** has published paper titled “Medical Image classification using Deep Learning Techniques: A Review”
- **Ms. Dharanika** has published paper titled “An Ample Approach for Rational Apothecary to Enhance Medication Adherence”
- **Ms. Tharanipriya** has published paper titled “Sports Applications of Biomechanics Wearable Sensors using IOT”



STUDENTS CORNER

Students Innovative / Inter-disciplinary Projects

- **Mr.Arun V** (III EC C) has presented the project “Robotic Dog based fire extinguisher” in GENESIS’23 conducted by Sri Ramakrishna Engineering College, Coimbatore held on 04th October 2023.
- **Mr.Arun V** (III EC C) has presented the project “Robotic Dog based fire extinguisher” in IDEATHON and HACKATHON-1.0 conducted by SRM Institute of Science and technology held during 12-13 October 2023.
- **Mr.Arun V** (III EC C) has presented the project “Wireless controlled and solar powered lawn cutter and vacuum cleaner” in IDEATHON and HACKATHON-1.0 conducted by SRM Institute of Science and technology held during 12-13 October 2023.
- For 3rd year students, Mini-project expo has been organized on 20th October 2023 by **Mr G. Rajarathinam**, Associate Professor and students showcased their project works in the expo.



Fig. 10. Students’ participation and Faculty Members Visit to the Project expo.



Fig. 11. Students' participation and Faculty Members Visit to the Project expo.

- Ms. Dharani V, Mr. Gunabharath K, Mr. Sudarsun S, Mr.Thirumal P, Mr.Mohanraj V, Mr.Rathish S (III EC C) were actively participated in the event “Smart India Hackathon 2023” organized by Karpagam college of engineering on 14th September 2023 to exhibit their project ideas.



Fig. 12. Students' participation in Smart India Hackathon organized by KCE

- **Mr. Arun V, Mr. Gokul S and Mr. Pavan kumar S (III EC C)** have participated in “**Hackathon & Ideation 1.0**” organized by SRM Institute of Science and Technology during 12th and 13th October 2023.



Fig. 13. Students’ participation in Hackathon & Ideation organized by SRM institution.

Students Awards / Achievements/ Patents

- **Mr. Arun V, Mr. Maharajan M and Mr. Pavan kumar S (III EC C)** have filed a patent titled “Piezoelectric Power Harvester on Staircase/Footstep for Domestic Lighting Application” (Application No: TEMP/E-1/87186/2023-CHE) on 30th October 2023.
- **Mr.P. R. Agathesh, Mr.N.D Akash, Ms.S. Rohitha, Mr. S. Hariharasudhan** have participated in online design contest and honored with JURY CHOICE AWARD by PCI Innovism 4.0 on 22nd October 2023.
- **Mr.S. Gokul, Mr.S Jiyath Rashid , Mr.Thirumal P, Mr.Lalidesh J, Mr.Keerthiraj VS, Mr.Pavankumar S and Mr.Srikanth KS** have participated in National level Technical Symposium “GENESIS’23 – Project Palooza (project expo) conducted by Association of Electronics and Communication Engineers (ASELCOME) at Sri Ramakrishna Engineering College on 4th October 2023.

- **Ms.Saraswathi R, Ms.Mani Santhiya C** have participated in National level Technical Symposium “GENESIS’23 – Ideasphere (paper presentation) conducted by Association of Electronics and Communication Engineers (ASELCOME) at Sri Ramakrishna Engineering College on 4th October 2023.
- **Mr.S Sudarsun and Mr.Lalidesh J** have participated in “Idea/Project Presentation” during “Innovism Version 4.0” and presented his idea “Smart Robotic Arm” on 22nd October 2023 organized by PCI.
- **Mr.Lalidesh J** has participated in “Idea/Project Presentation” during “Innovism Version 4.0” and presented his idea “Weather monitoring Station” on 22nd October 2023 organized by PCI.
- **Mr.Maharajan M** has participated in “Idea/Project Presentation” during “Innovism Version 4.0” and presented his idea “RFID based Access control system” on 22nd October 2023 organized by PCI.
- **Ms.L. Nandhitha** has wrote poetry in Tamil and same has been published in the book titled “VIZHITHEZHU” Authored by Mr.A. Niththan.



Fig. 14. Front cover page of the book VIZHITHEZHU



மனித குலம்

சாதி, மதம், இனம் இவையே சமூகம்
என்றால் விகம் காற்றில் விசம் பரவட்டும்!
அனைவரும் மனிதகுலம் என்பதே உண்மை!
மரப்பாச்சி பொம்மைக்கும் மானம் காத்த
இந்திய நாட்டில் மணிப்பூர் விவகாரம்தான் சான்றா?
கண்ணுக்கு இமையழகு!
மண்ணுக்கு மரமழகு!
என்பது உண்மையல்லவா?
மரம் உயர நாட்டின் தரம் உயர
மாகம் தூகம் சேர்ந்தால் நாசம் நமக்குத்தான்!
மாக நிறைந்த நாட்டிலே காக
இருந்து என்ன பயன்?
இயற்கை நமது மூதாதையரிடம் பெற்ற
பரம்பரை சொத்தல்ல, நமது எதிர்கால
சந்ததியிடம் ஒப்படைக்க வேண்டிய கடனே!
சந்திரயான்-3 நிலவில் தரையிறங்கிய செய்தி கேட்டு
உலகம் வியப்பது மட்டும் பெருமையல்ல தளர்வே!
பெண்கள் இரவில் நடந்து செல்லும்
எதிர்காலம் ஏற்பட்டால் அன்றே பெண்ணுக்குச் சுதந்திரம்!

-நந்திதா.லோ

Fig. 15. Tamil Poetry written by Ms. L. Nandhitha and same is printed in the book VIZHITHEZHU

- Ms.L. Nandhitha has participated and won 2nd place in “WisdomWaves” held as a part of SNS COLORS (A National Design Thinking Contest & Festival) on 12th September 2023.
- Ms.L. Nandhitha has participated and won 1st place in “Start-up Pitching” held as a part of SNS COLORS (A National Design Thinking Contest & Festival) on 12th September 2023
- Ms.L. Nandhitha has participated and won 1st place in “Tech Talk Throwdown” held as a part of SNS COLORS (A National Design Thinking Contest & Festival) on 12th September 2023.

- Students of EC have arranged and celebrated the “Engineers Golu” on the behalf of Department of EC.



Fig. 16. Students and Faculty Members in “Engineers Golu”

Students Publications – Conferences / Journals

- Anuvarshni R, Bhavashri D S And Sakthi Priya K “Leveraging Deep Learning Techniques to Perform Detection And Classification of Brain Tumor” In Innovative Research in Electrical, Electronics and Communication Engineering (Electrox ‘23), Karpagam Institute of Technology
- Kaviya M, Yamini Devi M P, Princy Flora F And Pradhipa R, “Municipality Waste Segregation, Monitoring and Management using Iot” In Innovative Research in Electrical, Electronics and Communication Engineering (Electrox ‘23), Karpagam Institute of Technology
- Lingash Kumar U, Hariharasudhan V, Vijay A, Mohamed Apsar, “Self Defense System for Women Safety using Shock Effect , Audio Recording and Fingerprint based Timer” In Innovative Research in Electrical, Electronics and Communication Engineering (Electrox ‘23), Karpagam Institute of Technology
- Manimaran K, Arjun R, Vadivel M, Sandeep, “Smart Helmet-Based Personal Proximity Warning System for Underground Mine Safety” In Innovative Research in Electrical, Electronics and Communication Engineering (Electrox ‘23), Karpagam Institute of Technology
- Nandan R T, Akash R, Sachin R S And Thamil S V, “Low-Cost Ventilator Using Atmega 328p” In Innovative Research” In Innovative Research in Electrical, Electronics and Communication Engineering (Electrox ‘23), Karpagam Institute of Technology
- Surya K, Gokul P, Surendhar V, Nithish Kumar N, “Design of Modified Full Adder-Based Low Power Array Multiplier” In Innovative Research in Electrical, Electronics and Communication Engineering (Electrox ‘23), Karpagam Institute of Technology
- Alagu Thanush A, Gopi P, Jagathesh V And Kaviswaran “High Speed Triple Operand Adder for Graphic Processing And Cryptography” In Innovative Research in Electrical, Electronics and Communication Engineering (Electrox ‘23), Karpagam Institute of Technology
- Mohamed Aabid M, Selvaprakash J, Vikram Kumar S, Suresh Kumar G, “Footstep Power Generation Using RFID”, In Innovative Research in Electrical, Electronics and Communication Engineering (Electrox ‘23), Karpagam Institute of Technology
- Suvetha S, Karthiga S, Sowmiya B, “Ai Based Programmed Medical Care Squander Isolation and Removal Framework” In Innovative Research in Electrical, Electronics and Communication Engineering (Electrox ‘23), Karpagam Institute of Technology
- Ajith Kumar R, Akash K, Alismail M, Arun A, “Fruit Quality Detection using Machine Vision Techniques” In Innovative Research in Electrical, Electronics and Communication Engineering (Electrox ‘23), Karpagam Institute of Technology
- Mohamed Afzar N, Madasamy Muthukumar R, Nithersana Moorthy E, “Bluetooth based Seed Sowing Robot” In Innovative Research in Electrical, Electronics and Communication Engineering (Electrox ‘23), Karpagam Institute of Technology

Students Participation – Seminar / Workshop / Symposium / NPTEL / AICTE / MOOC's

- **V. Arun** has successfully completed an NPTEL course entitled “Digital Circuits” and awarded with Elite plus Silver
- **JOHN JAYAPANDIAN J** has successfully completed an NPTEL course entitled “Data Structures and Algorithms Using Java” and awarded with Elite plus Silver
- **RAMIYA SRI S** has successfully completed an NPTEL course entitled “Data Structures and Algorithms Using Java” and awarded with Elite plus Silver
- **DHARANYA P** has successfully completed an NPTEL course entitled “Data Structures and Algorithms Using Java” and awarded with Elite plus Silver
- **RITHANYA M** has successfully completed an NPTEL course entitled “Data Structures and Algorithms Using Java” and awarded with Elite plus Silver
- **ELAMATHI R** has successfully completed an NPTEL course entitled “Data Structures and Algorithms Using Java” and awarded with Elite plus Silver
- **PALANIAPPAN N** has successfully completed an NPTEL course entitled “Data Structures and Algorithms Using Java” and awarded with Elite plus Silver
- **RATHINAVEL P** has successfully completed an NPTEL course entitled “Data Structures and Algorithms Using Java” and awarded with Elite plus Silver
- **AGATHESH P R P** has successfully completed an NPTEL course entitled “Data Structures and Algorithms Using Java” and awarded with Elite plus Silver
- **KARTHICK R** has successfully completed an NPTEL course entitled “Data Structures and Algorithms Using Java” and awarded with Elite plus Silver
- **VENKATESH S** has successfully completed an NPTEL course entitled “Data Structures and Algorithms Using Java” and awarded with Elite plus Silver
- **JANANI N** has successfully completed an NPTEL course entitled “Data Structures and Algorithms Using Java” and awarded with Elite plus Silver
- **KIRUTHIKA J** has successfully completed an NPTEL course entitled “Data Structures and Algorithms Using Java” and awarded with Elite plus Silver
- **AKSHITHA A** has successfully completed an NPTEL course entitled “Data Structures and Algorithms Using Java” and awarded with Elite plus Silver
- **HARINI PRIYA S** has successfully completed an NPTEL course entitled “Data Structures and Algorithms Using Java” and awarded with Elite plus Silver
- **RAGHUL R** has successfully completed an NPTEL course entitled “Programming in Java” and awarded with Elite plus Silver
- **PON SELVAKUMAR V** has successfully completed an NPTEL course entitled “Introduction to Internet of Things” and awarded with Elite plus Silver
- **VINOTH KUMAR S** has successfully completed an NPTEL course entitled “Introduction to Internet of Things” and awarded with Elite plus Silver
- **RAKSITH C R** has successfully completed an NPTEL course entitled “Introduction to Internet of Things” and awarded with Elite plus Silver

- **B A. Dinesh Kumar** has successfully completed an NPTEL course entitled “Digital Circuits” and awarded with Elite
- **S. Gokul** has successfully completed an NPTEL course entitled “Digital Circuits” and awarded with Elite
- **K. Gunabharath** has successfully completed an NPTEL course entitled “Digital Circuits” and awarded with Elite
- **J. Lalidhesh** has successfully completed an NPTEL course entitled “Digital Circuits” and awarded with Elite
- **M. Maharajan** has successfully completed an NPTEL course entitled “Data Structure and Algorithms Using Java” and awarded with Elite
- **V. Mohanraj** has successfully completed an NPTEL course entitled “Data Structure and Algorithms Using Java” and awarded with Elite
- **S. Pavankumar** has successfully completed an NPTEL course entitled “Digital Circuits” and awarded with Elite
- **G. Prawin Raj** has successfully completed an NPTEL course entitled “The Joy of Computing Using Python”
- **R. Saraswathi** has successfully completed an NPTEL course entitled “Programming in Java”
- **V. Vinith Kumar** has successfully completed an NPTEL course entitled “Data Structure and Algorithms Using Java”
- **L. Nandhitha** has successfully completed an NPTEL course entitled “Digital Circuits”
- **M V Muhil, R Yaswanth** has attended workshop in VIT Vellore on Python for Science and Engineering Applications



Fig.17: Students at VIT campus for attending the workshop

EVENTS ORGANIZED

- **Dr. S. Deepa** Associate Professor, has organized the event “Women’s Health” – Guest Lecture on 18th Aug 2023 to facilitate the girl students and faculty members.



Fig.18: Recourse person delivering the content to audience in the event “Women’s Health

- **Dr. M Annalakshmi and Dr. R. Suguna** have organized the National Level workshop on “Advanced Driver Assistant System (ADAS)” on 15th September 2023 in collaboration with IE chapter.



Fig.19: Group photo with Mr. Prasanth G, Project manager, Bosch Global Software Technologies Pvt. Ltd, Coimbatore and Participants of the event “Advanced Driver Assitaance System (ADAS)”

- **Dr. S Deepa and Ms. S Malini** have organized the Career Awareness Program on “Role of Electronics in Aviation” on 15th July 2023 in collaboration with Karuppa foundation.
- **Dr. S Deepa and Ms. S Malini** have organized the National Level workshop on “Data Analytics with Python” on 28th July 2023 in collaboration with Linumiz, Namakkal.
- **Dr. S Deepa and Ms. S Malini** have organized the National Level workshop on “Embedded based Application Development using Arduino and AVR Microcontroller” on 24th November 2023 in collaboration with Karuppa foundation.



Fig.20: Mr. Gajendran P, AP/EE sharing the knowledge with participants in the event “Embedded based Application Development using Arduino and AVR Microcontroller”

- **Ms T Happila and Mr. S. Ramprasath** have organized the National Level workshop on “Building computer vision modules with python” on 5th September 2023 in collaboration with Steps Knowledge Services.
- **Dr. C.Priya and Ms. L. Saranya** has organized on day workshop on “Industrial Internet of Things” on 4th August 2023 in collaboration with Linumiz, Namakkal.
- **Dr. S. Sobana and Ms. T Dharanika** has organized on day workshop on “Machine Learning Techniques for EEG Processing” on 27th July 2023 in collaboration with Bonfay TECH

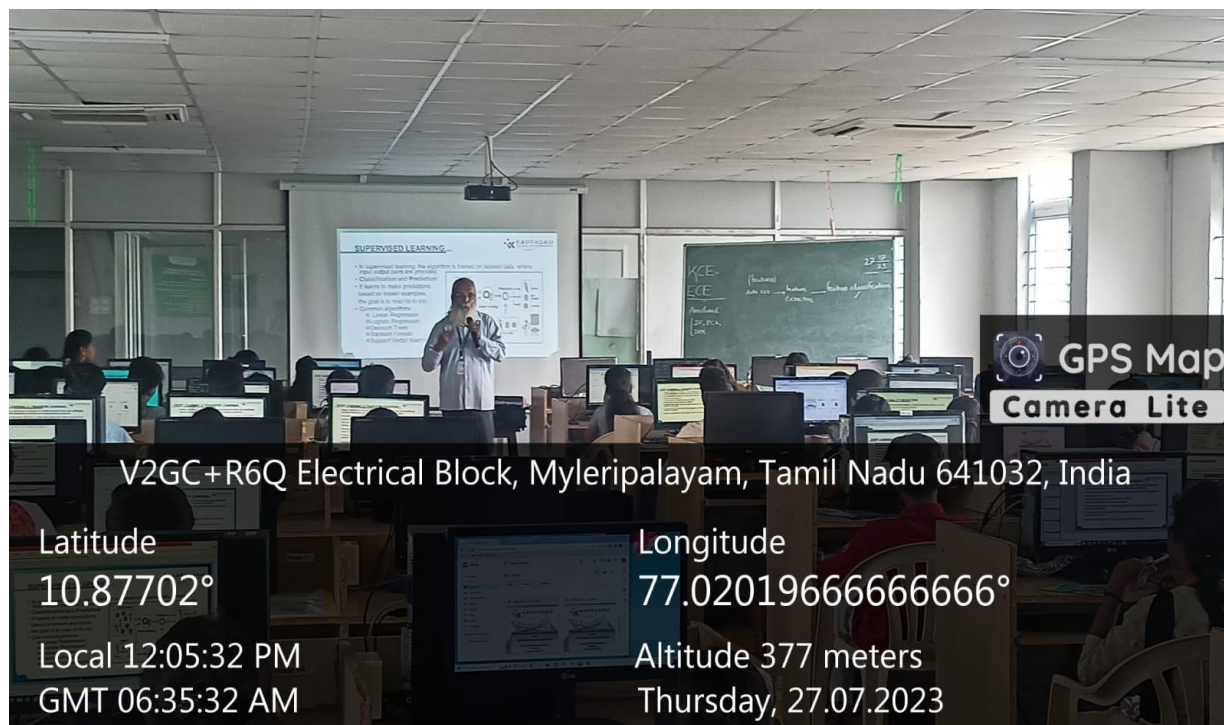


Fig.21: Dr.G. Saravanakumar, Prof/EC sharing the knowledge with participants in the event “Machine Learning Techniques for EEG Processing”

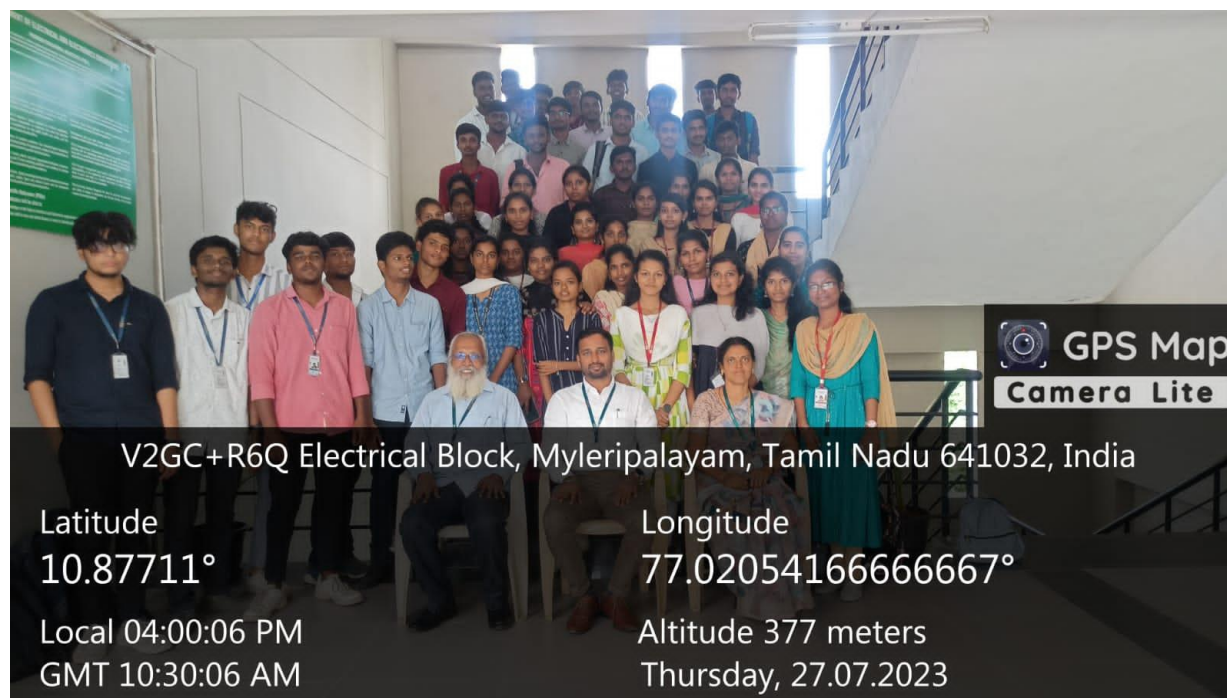


Fig.22: Group photo of the event “Machine Learning Techniques for EEG Processing”

Industrial Visit / Implant Training

Sl.No.	Class	Date of the visit	Name of the Industry visited	No.of Students	Name of the accompanied Faculty Members
1	III EC A	11.08.2023	JVS Electronics, Bengaluru	111	Mr. G. Arun Francis, AP/EC Ms. S.Tharanipriya, AP/EC
2	III EC B	11.08.2023	JVS Electronics, Bengaluru		Mr.C.Mukuntharaj, AP/EC Ms. Ghibitha Bebin, AP/EC
3	III EC C	11.08.2023	Iroid Technologies, Kerala	57	Dr. S. Deepa, Asp/EC Dr.R.Selavakumar, AP/EC



Fig. 23: Students (III EC A) Industrial Visit to JVS Electronics, Bengaluru



Fig. 24: Students (III EC B) Industrial Visit to JVS Electronics, Bengaluru



Fig. 25: Students (III EC C) Industrial Visit to Iroid Technologies

Extra-Curricular Activities – Sports / Cultural

- **S.Gokul** has participated in “Project Palzooa Genesis 2023” Organized by Sri Ramakrishna Engineering College, Coimbatore.
- **C.K GokulaKrishna** has participated in “Project Palzooa Genesis 2023” Organized by Sri Ramakrishna Engineering College, Coimbatore.
- **K.Gunabharath** has participated in “Project Palzooa Genesis 2023” Organized by Sri Ramakrishna Engineering College, Coimbatore.
- **A. Jeyasuryaprabharan** have participated in “Idea/Project Presentation” during “Innovism Version 4.0” and presented his idea “Smart Robotic Arm” on 22nd October 2023 organized by PCI.
- **S.Jiyath Rashiq** has participated in “Project Palzooa Genesis 2023” Organized by Sri Ramakrishna Engineering College, Coimbatore.
- **V.S.Keertheraj** has participated in “Project Palzooa Genesis 2023” Organized by Sri Ramakrishna Engineering College, Coimbatore.
- **J.Lalidesh** has participated in “Project Palzooa Genesis 2023” Organized by Sri Ramakrishna Engineering College, Coimbatore.
- **M Maharajan and M.Logesh** have participated in “Idea/Project Presentation” during “Innovism Version 4.0” and presented his idea “Smart Robotic Arm” on 22nd October 2023 organized by PCI.
- **R.Saraswathi , S.Pavan Kumar and C Mani Santhiya** has participated in “Project Palzooa Genesis 2023” Organized by Sri Ramakrishna Engineering College, Coimbatore.
- **S.Sudarsan and P.Thirumal** has participated in “Project Palzooa Genesis 2023” Organized by Sri Ramakrishna Engineering College, Coimbatore.
- **S.Venkatesh** has participated in “Idea/Project Presentation” during “Innovism Version 4.0” and presented his idea “Smart Robotic Arm” on 22nd October 2023 organized by PCI.
- **K.S.SriKanth and Divya M** has attended workshop in “Project Palzooa Genesis 2023” Organized by Sri Ramakrishna Engineering College, Coimbatore.