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Mrs.E.Vijayalakshmi, M.E., AP/CSE

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III CSE-C



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III CSE- C



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Dr.A.Meenakshi, M.E., Ph.D.,
Professor & HoD



Dr.A.Anandh,M.E.,M.B.A., Ph.D.,
Professor



Dr.G.Uma Maheswari, M.E., Ph.D.,
Associate Professor



Dr.V.Rajesh Kannan,M.E.,Ph.D.,
Assistant Professor



Mr.G.Sundararaju,M.Tech.,
Assistant Professor



Mr.R.Kumaravel,M.E.,(Ph.D).,
Assistant Professor

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Mrs.S.Athilakshmi,M.Sc., M.Phil.,
M.E.,(Ph.D).,
Assistant Professor



Mr.B.Muthu Krishna Vinayagam,
M.E.,(Ph.D).,
Assistant Professor



Mr.G.Praveen Kumar,M.E.,(Ph.D).,
Assistant Professor



Mr.J.John Livingston,M.Tech.,
(Ph.D).,
Assistant Professor



Mr.S.Ram Prasath,M.E.,(Ph.D).,
Assistant Professor



Mr.D.Asir,M.Tech.,(Ph.D).,
Assistant Professor

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Mrs.X.Ignatius Selvarani,M.E.,(Ph.D).,
Assistant Professor



Mrs.E.Vijayalakshmi, M.E.,
Assistant Professor



Mr.D.Raj,M.E,(Ph.D).,
Assistant Professor



Mrs.K.Leelarani,M.E.,(Ph.D).,
Assistant Professor



Ms.D.Pradhiba, M.Tech.,
Assistant Professor



Mrs.S.Maria Sobana,M.E.,
Assistant Professor

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Mrs.G.Rohinipriya,M.E.,(Ph.D).,
Assistant Professor



Mrs.G.A.Muthuchelvi,M.E., (Ph.D).,
Assistant Professor



Mrs.S.Saraswathi,M.E.,
Assistant Professor



Mrs.G.C.Pushpalatha, M.E.,
Assistant Professor



Mrs.S.Archana Devi,M.E.,(Ph.D).,
Assistant Professor



Mrs.T.Divya,M.E.,(Ph.D).,
Assistant Professor

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Mrs.M.Mohana,M.E., (Ph.D.,)
Assistant Professor



Mrs.K.Priyadharshini,M.E., (Ph.D.,)
Assistant Professor



Ms.I.Shalom Priscilla, M.E.,
Assistant Professor



Mrs.R.Swathi pugal,M.E.,
Assistant Professor of Practice

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VISION OF THE INSTITUTION

TO MAKE THE INSTITUTION THE ONLY OF ITS KIND IN THE FIELD OF RESEARCH AND DEVELOPMENT ACTIVITIES IN THE PART OF THE WORLD.

MISSION OF THE INSTITUTION

TO IMPART HIGHLY INNOVATIVE AND TECHNICAL KNOWLEDGE TO URBAN AND REMOTE RURAL STUDENTS THROUGH "TOTAL QUALITY EDUCATION."

QUALITY POLICY

COMMITED TO IMPART QUALITY TECHNICAL EDUCATION IMBIDED WITH PROFICIENCY, HUMAN VALUES AND CONTINUAL IMPROVEMENTS

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VISION OF THE DEPARTMENT

TO MAKE THE DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING THE UNIQUE OF ITS KIND IN THE FIELD OF RESEARCH AND DEVELOPMENT ACTIVITIES IN THIS PART OF WORLD

MISSION OF THE DEPARTMENT

TO IMPART HIGHLY INNOVATIVE AND TECHNICAL KNOWLEDGE TO THE URBAN AND UNREACHABLE RURAL STUDENT FOLKS IN COMPUTER SCIENCE AND ENGINEERING THROUGH "TOTAL QUALITY EDUCATION".

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PROGRAM EDUCATIONAL OBJECTIVES

PEO1

Apply the necessary mathematical tools and fundamental knowledge of Computer Science & Engineering to solve the variety of Engineering problems.

PEO2

Develop software based solutions for real life problems and be a leaders in their profession with social and ethical responsibilities.

PEO3

Pursue life-long learning and research in selected fields of Computer Science & Engineering and contribute to the growth of those fields and society at large.

PROGRAM SPECIFIC OUTCOMES

PSO1

Profession Skills: The ability to understand, analyze and develop computer Programs in the areas related to algorithms, system software, multimedia, web design, big data analytics, and networking for efficient design of Computer-based systems of varying complexity.

PSO2

Problem - Solving Skills: The ability to apply standard practices and strategies in software project development using open-ended programming environments to deliver a quality product for business success.

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ABOUT THE DEPARTMENT

The Department of Computer Science and Engineering was established in the year 1998 with the initial intake of 40. The primary objective of our department is to provide "Total Quality Education" in the field of information and Communication Engineering, amid 120 students per year. Computer Science & Engineering, a dazzling department for ever is always a forerunner in impacting innovative & technical knowledge to the aspirants. The department of Computer Science and Engineering has excellent infrastructure facilities and is powered with the highly sophisticated lab with the higher configuration systems and servers with recent software updated to meet the demands of the IT industry, Research and Development organizations and computer related areas. The department offers an excellent academic environment with a team of highly qualified faculty who are technically sound and talented persons. Our faculty members monitor student's performance regularly and give moral support and motivation to them. Our department has a separate association called CYBERHEFT through which we conductvarious technical events to student.

HOD'S MESSAGE

"Technology is the driving force behind the evolution of our world, and at the Department of Computer Science and Engineering, we are committed to nurturing the next generation of innovators, problem-solvers, and leaders who will shape the future. As we stand at the intersection of cutting-edge research and real-world applications, our mission is to empower students with the knowledge, skills, and mindset to tackle global challenges and create transformative solutions. This tech magazine serves as a testament to the incredible advancements and ideas emerging from our vibrant community. It is a platform to celebrate creativity, collaboration, and the relentless pursuit of excellence. Let us continue to push boundaries, embrace curiosity, and harness the power of technology to build a smarter, more connected, and sustainable world. To our students, faculty, and industry partners - your passion and dedication inspire us every day. Together, let's keep innovating, learning, and leading the way in the ever-evolving landscape of technology."

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Dr. A. Meenakshi, Professor and Head of the Department of Computer Science and Engineering at Kamaraj College of Engineering and Technology, Near Virudhunagar, has over 25 years of teaching experience and nearly 15 years of research experience in the field of Computer Science and Engineering. She obtained her Master of Engineering in Computer Science and Engineering from Anna University, Chennai, and her Ph.D. in Information and Communication Engineering, specializing in Machine Learning, from the same university.

Dr. Meenakshi has published more than 15 papers in reputed national and international journals and presented over 20 papers at national and international conferences. She is a recognized research supervisor under the Information and Communication Engineering domain at Anna University, Chennai, and currently guides seven research scholars.

Her research interests include Big Data Analytics, Machine Learning, and Deep Learning. She is also a member of the Computer Society of India (CSI) and a life member of the Indian Society for Technical Education (ISTE).

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DEPARTMENT ACTIVITIES

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The department of CSE conducted PAC meeting on 25/7/2026.

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Department of CSE organized an Expert session by Industry Professional on "Building the future with IOS Mobile application development" for II CSE students through Cloud Nexus club on 03-08-2026.

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The department of CSE conducts Industry Ready Value added courses for the III CSE students from 3/8/26 to 7/8/26.



The Department of Computer Science and Engineering, through the Industry Institute Interaction Cell, organized a One-Day Workshop on "Building Cyber-Resilient Businesses" on 06 August 2026 for II CSE students. The session was handled by Mr. Seenivasan SR, Senior Cyber Security Head, Kaizen Infinities Private Limited, who shared practical insights on cyber security awareness, business resilience, and emerging cyber threats.

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The Department of Computer Science and Engineering, through the Entrepreneurship Development Cell, organized a guest lecture on "The Analytics Edge: Transforming Data into Intelligent Decisions" on 07 August 2026 for II CSE students. The session was delivered by Ms. T. Sindhupairavi, BDM & Technical Trainer, GatesCloud Technologies, Madurai, who highlighted the role of data analytics in informed decision-making, industry applications, and career opportunities. The session provided students with practical insights into data-driven technologies and their real-world impact.

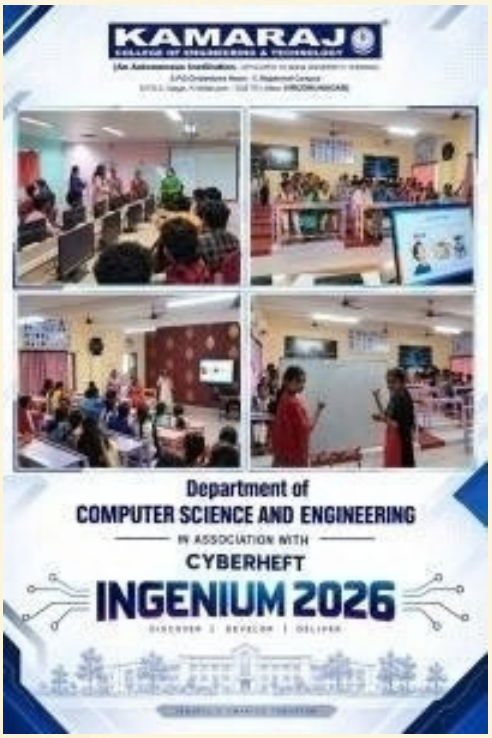
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The Department of CSE is organizing an Intensive Programming Bootcamp on "OOPS using Java and Data Structures" from 07.09.2026 to 24.10.2026. The bootcamp is designed to strengthen students' problem- solving abilities, and coding proficiency through comprehensive training in OOPS concepts and Data Structures using Java.



The Department of CSE in association with CYBERHEFT (Students' Association - CSE) organized an intra department contest " INGENIUM-2026 " for II and III CSE students in account of Engineer's Day Celebration on 23.09.2026.

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The Department of Computer Science and Engineering conducted a two-day hands-on workshop on "Java to Database: Hands-on Application Development using JDBC" from 23.09.2026 to 24.09.2026 for the II CSE students.

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Second year students of CSE attended an interactive session on "The Tech Stack Roadmap" by Mr. Karthik, Chief Architect, RelevantZ, Chennai.



Dr. Senthil Kumar, Professor/CSE, Amrita Vishwa Vidyapeetham, Coimbatore delivered a Guest Lecture on "Impact of AI Tools in Development" to III Year IT, CSE and ADS students

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The department of CSE has signed MoU with Dotcom Infoway. This will facilitate internship opportunities for the Students.

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FACULTY ACHIEVEMENTS



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Mrs. K. Leelarani, AP/CSE, attended the workshop titled “AI-Powered IoT”, organized by RECCSAR Pvt. Limited on 19 July 2026.



Mrs. K. Leelarani, AP/CSE attended 5 days FDP on "Generative AI" from 22.07.2026 to 27.07.2026 organized by Department of CSE,CMR Engineering College.

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Mr. G. Praveenkumar and Mrs. G. Rohinipriya act as Resource Persons for the one-day workshop on "Data Visualization Techniques" organized by Saiva Bhanu Kshatriya College, Aruppukottai on 23 July 2026.


Reccsar
PRIVATE LIMITED

CERTIFICATE OF PARTICIPATION

This certificate is proudly presented to **Mrs. LEELARANI K**

for being an active participant in the **Online Workshop** held on 26th July 2026

"**Build Intelligent Workflows with n8n**" organized by **Reccsar Pvt. Ltd**

Your enthusiasm and engagement made the online sessions a great success!

Authorized Signatory

Mrs. K. Leelarani, AP/CSE, attended the workshop titled “n8n”, organized by RECCSAR Pvt. Limited on 26 July 2026.

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Ms. S. Athilakshmi, AP/CSE, served as a Resource Person for a guest lecture on "Insights into Java Programming" held on 11 August 2026 at Fatima Michael College of Engineering and Technology.



Mr. D. Asir, AP/CSE, received a Certificate in Recognition of valuable contribution, dedicated mentorship, and expert guidance as a Mentor to the student innovators participating in the "Nimirnthu Nil" Hackathon – State-Level District Final Pitch, held on 18.08.2026 at Sivagangai, under the Tamil Nadu Youth Innovation and Entrepreneurship Development Programme (TNYIEDP)

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Kamaraj, in association with ICT Academy, organised a five-day Faculty Development Programme on "Cybersecurity" from 18th to 22nd August 2026. Faculty members from various colleges participated in the FDP, which focused on practical approaches to strengthening digital security and enhancing cybersecurity knowledge and skills. The following faculty members from the Department of Computer Science and Engineering (CSE) participated in this program and successfully obtained their certificates:

Dr. A. Meenakshi, Professor & Head – CSE
Dr. G. Uma Maheswari, ASP – CSE
Mr. S. Ramprasath, AP – CSE
Mr. J. John Livingston, AP – CSE
Mr. D. Asir, AP – CSE
Mr. G. Praveen Kumar, AP – CSE
Ms. G. C. Pushpalatha, AP – CSE
Ms. G. Kavitha, AP – CSE
Ms. D. Pradhiba, AP – CSE
Ms. S. Maria Sobana, AP – CSE

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Mr. D. Asir, AP/CSE, successfully completed the 5-Day Faculty Development Program on "Future Industries with Agentic AI, IoT, and Green Intelligent Technologies" organized by Department of CSE (IoT, CS, BT), Institute of Engineering and Management, New Town in association with HRDC, IEM-UEM Group held from 24th August to 28th August 2026 with 100 % Marks.

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- **Dr. A Meenakshi, Professor/ HoD - CSE has successfully presented a research paper entitled "SLM-Based Precision Irrigation System for Resource-Constrained Farms Using Edge-Enabled IoT Systems" at the 7th International Conference on Electronics and Sustainable Communication Systems (ICESC 2026) organised by Department of Electronics and Communication Engineering, Hindusthan Institute of Technology, Coimbatore, India on 26 - 28, August 2026.**

- **Ms. Leelarani, AP/CSE has successfully presented a research paper entitled "SLM-Based Precision Irrigation System for Resource-Constrained Farms Using Edge- Enabled IoT Systems" at the 7th International Conference on Electronics and Sustainable Communication Systems (ICESC 2026) organised by Department of Electronics and Communication Engineering, Hindusthan Institute of Technology, Coimbatore, India on 26 - 28, August 2026.**

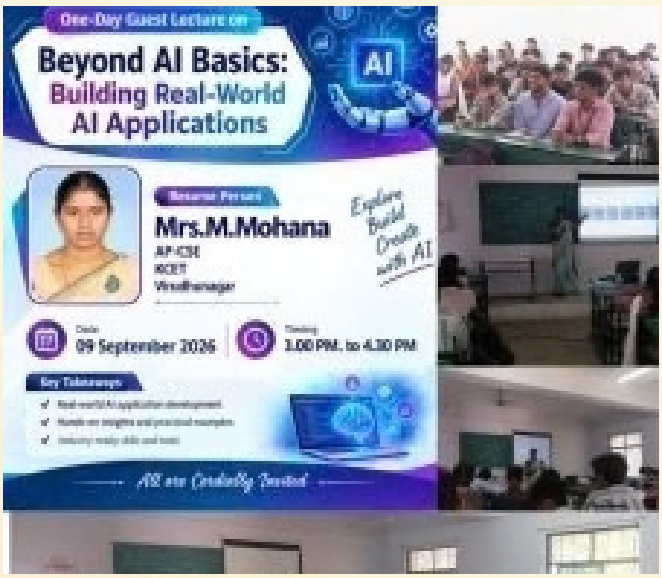
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Successfully completed a 5-Day Online Faculty Development Program on "Intelligent Computing and Emerging Technologies", organized by Siliguri Institute of Technology in association with MOES Innovation Cell, IQAC & IIC, and in collaboration with the IEEE Computational Intelligence Society, Kolkata Chapter, held from 7–11 September 2026.

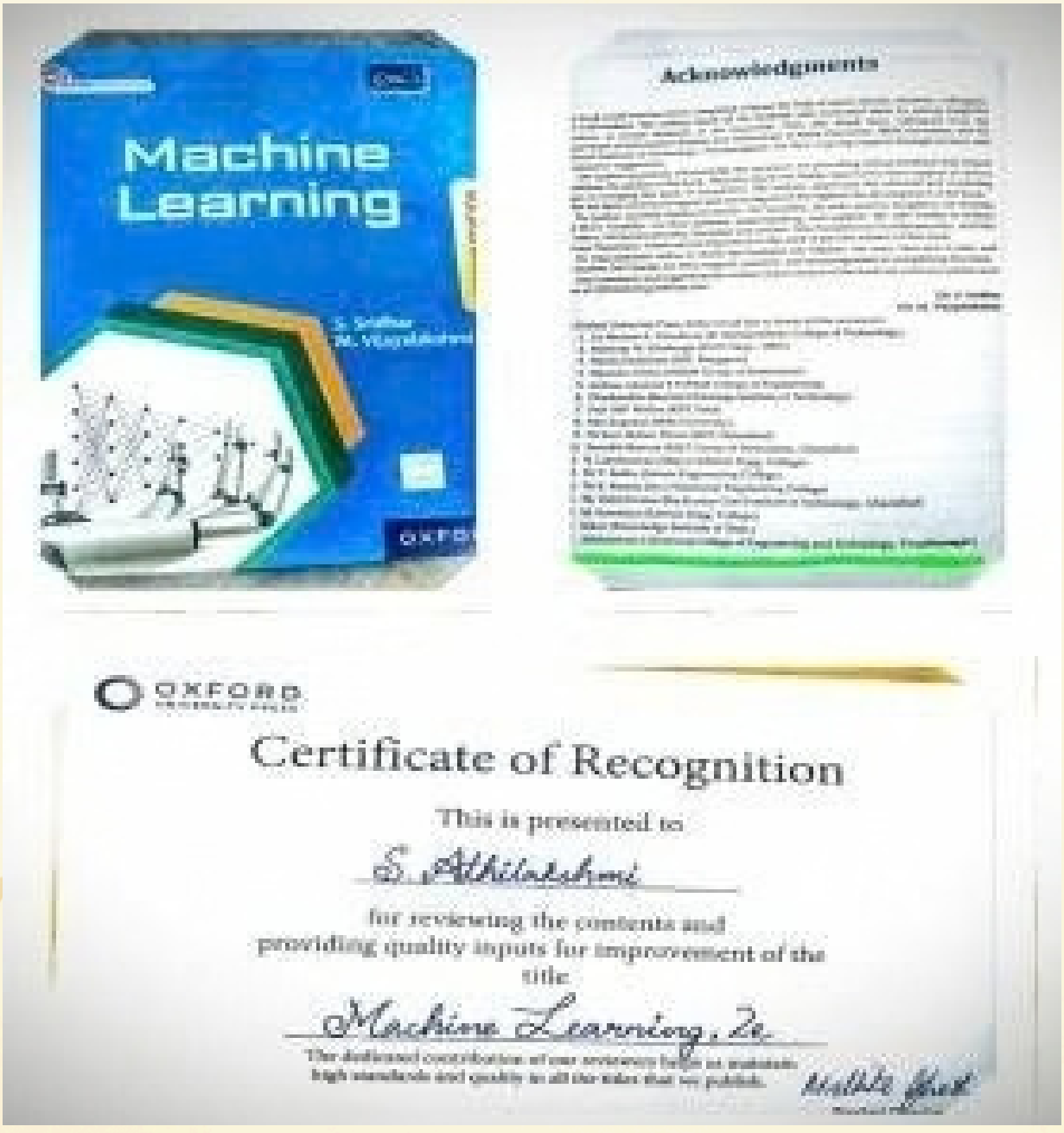


Mrs. M. Mohana, AP–CSE served as the Resource Person for the Guest Lecture on "Beyond AI Basics: Building Real-World AI Applications" at Government College of Engineering, Tirunelveli on 09.09.2026.

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Ms. S. Athilakshmi, AP/CSE, received recognition from Oxford University Press for her contribution as a reviewer of the textbook Machine Learning (2nd Edition).

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Mrs. K. Leelarani, AP/CSE, acted as the Resource Person for the webinar on "AI/ML Integrated Full Stack Development," conducted by the Department of Computer Science and Engineering, Velammal College of Engineering and Technology, Madurai.



Mrs. K. Leelarani, AP/CSE, acted as the Resource Person for the Guest Lecture on "Modern Java Development and Career Opportunities," conducted by the Department of Computer Science and Engineering, Velammal College of Engineering and Technology, Madurai.

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Mrs. K. Leelarani, AP/CSE successfully completed the NPTEL course "DATA SCIENCE FOR ENGINEERS" with Elite certification

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STUDENTS ACHIEVEMENTS



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The CSE student team, along with their mentor, Mr. D. Asir, AP/CSE, participated in the Day 2 Bootcamp of the Nimirnthu Nil Hackathon 2026, organized by the Tamil Nadu Entrepreneurship Development and Innovation Institute (TNEDII) at the Anna University Regional Campus, Madurai.

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Congratulations to the following II CSE A students for their achievements at SYNTAX- 2K26, held at Nadar Saraswathi College of Engineering and Technology on 04.08.2026.

- **Eswara Karuppasamy K – First Place in Paper Presentation**
- **Shriram S – Third Place in Web Design Battle**
- **Muthupandi B, Eswara Karuppasamy K and Muthu Irulappan S – First Place in Short Film**

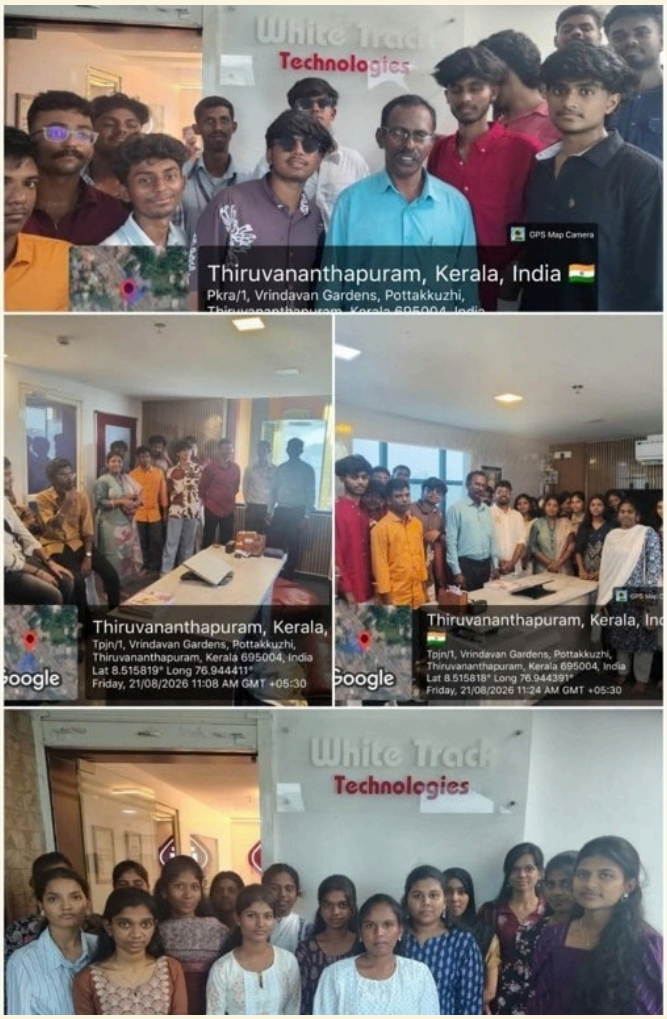


III CSE A students visited Regional technologies, Calicut as part of their industrial visit on 21.08.26

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III CSE C students visited the industry Ethorn Infotech Pvt. Ltd., Trivandrum on 21.08.26







III CSE B students visited the industry Ethorn Infotech Pvt. Ltd., Trivandrum on 21.08.26

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II CSE A students visited ,MAXVY Technologies Pvt. Ltd., Bangalore on 04-09-2026 as part of their industrial visit.

II CSE B students visited Technologics Global Pvt Ltd, Bangalore on 04-09-2026 as part of their industrial visit.



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II CSE C students visited Innomatics Research Labs, Bangalore on 04.09.2026 as part of their industrial visit.

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Appreciation for the active involvement and valuable contribution of I Year CSE-A students in the International Human Duties Day programme conducted by JCI Elite Virudhunagar on 11.09.2026.

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Ms. Bavana Sri A from CSE-C , Kamaraj College of Engineering and Technology had participated in the Rangoli Competition held at MEPCO Schlenk Engineering College and secured Third Prize.



Swetha and Team at Anna University Regional Campus, Madurai during the Hackathon

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Our boys basketball team won the Third place in the Anna university 17th zone Inter collegiate basketball tournament for boys held at Nadar saraswathi college of Engineering and Technology, Theni today .In this event Praveen Kumar, IV CSE acted as Captain.



Swetha S from the Department of CSE secured 3rd Place in Volleyball at Zone 17

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Our boys Table Tennis team won the second place in the Anna university 17th zone Inter collegiate Table Tennis tournament for boys held at University college of Engineering, Dindigul. Congratulations



Kamaraj appreciated Ms. Rakshaya S and Ms. Nithyashree P of II Year CSE-B for securing the Second Prize in the Paper Presentation event conducted at KPR Institute of Engineering and Technology, Coimbatore. Their outstanding presentation, technical proficiency, and effective communication skills earned them a cash prize of ₹1,000.

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Ms. Sangeetha R. S. and Ms. Yamuna Devi S. of II Year CSE-B secured the First Prize in the Paper Expo (Paper Presentation) event conducted at Anna University Regional Campus, Madurai. Their outstanding presentation, technical and knowledge, communication skills earned them top honors in the competition.



Participation of our II year CSE students in the Tamil Speech competition organised by Sithar Kudam, Kalligudi

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Kamaraj was delighted to welcome its proud alumnus Mr. Kamalakannan (CSE, Batch of 2025), who is currently serving in the Border Security Force (BSF). His visit to the campus was a moment of pride and inspiration for the students and faculty.



Idhayanila V P,of IV CSE secured 2nd place in Badminton at Zone 17 which held at Kamaraj College of Engineering and Technology

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- THE DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY, SUCCESSFULLY ORGANIZED A ONE-DAY FACULTY DEVELOPMENT PROGRAMME (FDP) TITLED "MASTER THE FUTURE OF AI – WITH HANDS-ON AGENTIC AI DEVELOPMENT" ON 01 AUGUST 2026.

- HE FDP AIMED TO EQUIP FACULTY MEMBERS WITH THE LATEST ADVANCEMENTS IN ARTIFICIAL INTELLIGENCE THROUGH PRACTICAL, HANDS-ON LEARNING. THE PROGRAMME WAS LED BY EXPERTS FROM ISYSWAY TECHNOLOGIES, THANJAVUR: DR. T. THAMARAISELVAN (CEO), DR. V. MANOCHITRA (CTO), AND MR. N. ISMAIL (SENIOR SOFTWARE TRAINER).
- DR. A. ANANDH, PROFESSOR, DEPARTMENT OF CSE, SERVED AS A REVIEW COMMITTEE MEMBER FOR THE INTERNATIONAL CONFERENCE ON ELECTRICAL, COMPUTER, COMMUNICATIONS AND MECHATRONICS ENGINEERING (ICECCME 2026) AND SUCCESSFULLY REVIEWED TWO RESEARCH PAPERS.

- DR. V. RAJESH KANNAN, ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, SERVED AS A HACKATHON JUDGE IN ROUND 1 OF HACKNIMA 2026 (INTERNATIONAL LEVEL HACKATHON).THE EVENT WAS JOINTLY ORGANIZED BY THE FACULTY OF COMPUTER SCIENCE AND ENGINEERING, POORNIMA UNIVERSITY, JAIPUR, INDIA, IN ASSOCIATION WITH ECLEARNIX EDTECH LLC, USA.HE CONTRIBUTED TO THE EVALUATION OF HACKATHON PROJECTS ON 29 AUGUST 2026, IN RECOGNITION OF HIS TECHNICAL EXPERTISE AND ACADEMIC CONTRIBUTION.

- WE PROUDLY APPRECIATE OUR STUDENTS JEGANNAATHAN, HARI HARA SUDHAN AND PRAMILA FROM III CSE C FOR SECURING SECOND PRIZE WITH A CASH PRIZE OF ₹5,000 IN THE 32-HOUR HACKATHON HELD AT RAMCO INSTITUTE OF ENGINEERING ON 10-09-2026. THEIR DEDICATION, INNOVATIVE THINKING, TEAMWORK AND COMMITMENT THROUGHOUT THE CHALLENGING 32-HOUR COMPETITION ARE TRULY COMMENDABLE. THIS ACHIEVEMENT REFLECTS THEIR TECHNICAL SKILLS, CREATIVITY AND ABILITY TO WORK EFFECTIVELY UNDER PRESSURE.

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MEMBERSHIP IN PROFESSIONAL BODIES

S. No.	Name of the Faculty	Professional Body/Society	Category/Grade of Membership	Membership No., if any
1	Dr.A.Meenakshi	Indian Society for Technical Education	LM37500	Life Member
		Computer Society of India	F8004138	Valid up to 31.8.2027
2	Dr.A.Anandh	Indian Society for Technical Education	LM73812	Life Member
		International Association of Engineers	349397	Life Member
		Institute for Engineering Research and Publication.	PROF-80035965	Valid up to 9.7.2026

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3	Dr.G.Uma Maheswari	Indian Society for Technical Education	LM59122	Life Member
		International Association of Engineers	532417	Life Member
4	Dr.V.Rajesh Kannan	Indian Society for Technical Education	LM129088	Life Member
5	Ms.S.Athilakshmi	Indian Society for Technical Education	LM59512	Life Member
		International Association of Engineers	532048	Life Member

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6	Mr.B.Muthukrishna Vinayagam	Indian Society for Technical Education	LM59485	Life Member
7	Ms.X.Ignatius Selvarani	Indian Society for Technical Education	LM94406	Life Member
		AMIEE Association	AMI/25/01672	Life Member
8	Mr.D.Asir	International Association of Engineers	218235	Life Member
9	Mr.J.John Livingston	International Association of Engineers	207135	Life Member

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10	Ms.K.Leelarani	Indian Society for Technical Education	LM104237	Life Member
		International Association of Engineers	347986	Life Member
11	Ms.E.Vijayalakshmi	International Association of Engineers	520541	Life Member
		Institute for Engineering Research and Publication	55339214	Valid up to 12.7.2026
12	Ms.M.Mohana	Indian Society for Technical Education	LM113331	Life Member
		International Association of Engineers	143766	Life Member

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13	Ms.K.Priyadharshini	International Association of Engineers	534459	Life Member
14	Mr.G.Praveen Kumar	Computer Society of India	F8005319	Valid up to 31.8.2027
15	Mr.D.Raj	Computer Society of India	F8005318	Valid up to 31.8.2027
		Indian Society for Technical Education	LM135259	Life Member
16	Mr.S.Ram Prasath	International Association of Engineers	339533	Life Member
		Institute for Engineering Research and Publication	79077354	1 year

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17	Mr.R.Kumaravel	International Association of Engineers	534667	Life Member
		Institutions of Engineers (India)	AM1259620	Life Member
		Indian Society for Technical Education	LM72624	Life Member
18	Ms.T.Divya	International Association of Engineers	534666	Life Member
		AMIEE Association	AMI/25/01722	Life Member
19	Ms.S.Archana Devi	International Association of Engineers	534748	Life Member

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20	Ms.G.Rohinipriya	International Association of Engineers	534662	Life Member
		AMIEE Association	AMI/25/01724	Life Member
21	Ms.G.A.Muthuchelvi	International Association of Engineers	534730	Life Member
22	Ms.G.C.Pushpalatha	International Association of Engineers	534736	Life Member
23	Ms.I.Shalom Priscilla	International Association of Engineers	534728	Life Member
24	Ms.S.Mariasobana	International Association of Engineers	530944	Life Member

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25	Ms.S.Saraswathi	International Association of Engineers	367355	Life Member
26	Mr.G.Sundararaju	Indian Society for Technical Education	LM56321	Life Member
27	Ms.S.Janani	Indian Society for Technical Education	LM86893	Life Member

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GREEN COMPUTING: MAKING TECHNOLOGY ENVIRONMENTALLY SUSTAINABLE

TECHNOLOGY PLAYS AN IMPORTANT ROLE IN OUR DAILY LIVES. AS COMPUTER SCIENCE STUDENTS, WE USE COMPUTERS, SMARTPHONES, THE INTERNET, AND CLOUD PLATFORMS REGULARLY. HOWEVER, THESE TECHNOLOGIES CONSUME ELECTRICITY AND GENERATE ELECTRONIC WASTE, CREATING ENVIRONMENTAL CONCERNS. GREEN COMPUTING ADDRESSES THESE ISSUES BY PROMOTING THE SUSTAINABLE USE OF TECHNOLOGY.
GREEN COMPUTING MEANS USING COMPUTERS AND DIGITAL TECHNOLOGIES IN WAYS THAT REDUCE ENVIRONMENTAL HARM. IT FOCUSES ON ENERGY EFFICIENCY, EXTENDING DEVICE LIFESPANS, RECYCLING E-WASTE, AND DEVELOPING SUSTAINABLE TECHNOLOGIES.

ONE MAJOR CONCERN IS ENERGY CONSUMPTION. COMPUTERS, SERVERS, AND DATA CENTRES REQUIRE ELECTRICITY TO OPERATE. USING ENERGY-EFFICIENT HARDWARE, IMPROVED COOLING SYSTEMS, AND POWER-SAVING MODES CAN REDUCE ENERGY USAGE. SWITCHING OFF UNUSED DEVICES ALSO HELPS CONSERVE ELECTRICITY.
ELECTRONIC WASTE IS ANOTHER IMPORTANT ISSUE. INSTEAD OF REPLACING OLD DEVICES IMMEDIATELY, REPAIRING OR UPGRADING THEM CAN EXTEND THEIR LIFESPAN. PROPER RECYCLING OF ELECTRONIC EQUIPMENT HELPS REDUCE ENVIRONMENTAL POLLUTION.

SOFTWARE ALSO CONTRIBUTES TO GREEN COMPUTING. EFFICIENT PROGRAMS USE FEWER PROCESSING RESOURCES AND LESS MEMORY. DEVELOPERS CAN REDUCE ENERGY CONSUMPTION BY OPTIMIZING CODE AND ELIMINATING UNNECESSARY CALCULATIONS AND BACKGROUND PROCESSES.
COMPUTER SCIENCE STUDENTS CAN USE TECHNOLOGIES SUCH AS IOT AND ARTIFICIAL INTELLIGENCE TO MONITOR RESOURCE USAGE, MANAGE WASTE, AND SUPPORT SUSTAINABLE AGRICULTURE. IN COLLEGE LABORATORIES, SWITCHING OFF UNUSED COMPUTERS, REDUCING UNNECESSARY PRINTING, AND RECYCLING ELECTRONIC DEVICES ARE SIMPLE WAYS TO PRACTISE GREEN COMPUTING.
EDUCATIONAL INSTITUTIONS CAN PROMOTE SUSTAINABILITY BY USING ENERGY-EFFICIENT SYSTEMS, ENCOURAGING DIGITAL SUBMISSIONS, AND ORGANIZING E-WASTE COLLECTION PROGRAMMES.

GREEN COMPUTING IS EVERYONE'S RESPONSIBILITY. AS FUTURE COMPUTER SCIENCE PROFESSIONALS, WE SHOULD DEVELOP TECHNOLOGIES THAT ARE NOT ONLY EFFICIENT AND INNOVATIVE BUT ALSO ENVIRONMENTALLY FRIENDLY. TECHNOLOGICAL PROGRESS AND ENVIRONMENTAL SUSTAINABILITY MUST GO HAND IN HAND.



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QUANTUM COMPUTING: THE TECHNOLOGY THAT COULD CHANGE THE FUTURE

TECHNOLOGY IS ADVANCING RAPIDLY, AND QUANTUM COMPUTING IS ONE OF THE MOST PROMISING DEVELOPMENTS IN COMPUTER SCIENCE. UNLIKE TRADITIONAL COMPUTERS, WHICH USE BITS, QUANTUM COMPUTERS USE QUBITS BASED ON THE PRINCIPLES OF QUANTUM MECHANICS. THIS TECHNOLOGY COULD TRANSFORM FIELDS SUCH AS HEALTHCARE, CYBERSECURITY, FINANCE, ARTIFICIAL INTELLIGENCE, AND CLIMATE RESEARCH.

CLASSICAL COMPUTERS PROCESS INFORMATION USING BITS, WHICH REPRESENT EITHER 0 OR 1. QUANTUM COMPUTERS USE QUBITS, WHICH CAN EXIST IN A COMBINATION OF STATES THROUGH A PROPERTY CALLED SUPERPOSITION. ANOTHER IMPORTANT PROPERTY, ENTANGLEMENT, CREATES STRONG CORRELATIONS BETWEEN QUBITS. THESE QUANTUM PROPERTIES ENABLE SPECIALIZED ALGORITHMS TO SOLVE CERTAIN PROBLEMS MORE EFFICIENTLY THAN CLASSICAL COMPUTERS.

QUANTUM COMPUTING HAS SEVERAL POTENTIAL APPLICATIONS. IN HEALTHCARE, IT COULD SUPPORT DRUG DISCOVERY AND MOLECULAR SIMULATION. IN CYBERSECURITY, POWERFUL QUANTUM COMPUTERS MAY THREATEN SOME EXISTING ENCRYPTION METHODS, ENCOURAGING THE DEVELOPMENT OF POST-QUANTUM CRYPTOGRAPHY. IN FINANCE AND CLIMATE RESEARCH, QUANTUM COMPUTING COULD HELP WITH COMPLEX OPTIMIZATION AND SCIENTIFIC SIMULATIONS.
RESEARCHERS ARE ALSO EXPLORING QUANTUM COMPUTING FOR ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING. HOWEVER, PRACTICAL ADVANTAGES OVER CLASSICAL COMPUTERS REMAIN AN ACTIVE AREA OF RESEARCH.

IN CONCLUSION, QUANTUM COMPUTING REPRESENTS AN EXCITING STEP IN THE FUTURE OF TECHNOLOGY. ALTHOUGH SIGNIFICANT CHALLENGES REMAIN, CONTINUED ADVANCES IN HARDWARE, ALGORITHMS, AND ERROR CORRECTION MAY CREATE NEW OPPORTUNITIES ACROSS MANY INDUSTRIES. FOR COMPUTER SCIENCE STUDENTS, UNDERSTANDING QUANTUM COMPUTING PROVIDES VALUABLE INSIGHT INTO THE NEXT GENERATION OF COMPUTATIONAL TECHNOLOGY.



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