



# VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous)

Accredited by NAAC with 'A+' Grade

Thindal, Erode - 638 012

**NEWSLETTER**

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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### MESSAGE FROM THE HOD

Our Department of Computer Science & Engineering (CSE) is dedicated for ensuring great careers for its students. Our faculty and students are constantly striving to excel and to advance the state of the art in Computer Science and Engineering. Our understanding is that persons who are clear and thorough about the fundamentals can adapt to rapid changes in technology relatively easily.

We want the education imparted to our students to be the basis of a life time of learning. Learning is a continuous process and does not end with the acquisition of a degree, especially because steady and rapid advances in computing technologies shorten the life of tools and techniques prevalent today. We believe that this approach to teaching-learning, coupled with practical experience gained during Industrial Training in reputed organizations, equips our students to handle the challenges posed by the software industry.

### VISION

To produce competent professionals for a globalized technological society by preparing them to become part of the industry and research organizations in the field of science and technology and orient them towards serving the society.

### MISSION

- Strengthening the core competence in Computer Science and Engineering through analytical learning and Industry – Institute interaction.
- Providing exposure to latest tools and technologies in the core area to design solutions and conduct investigations.



- Promoting innovative research based projects / activities in the emerging areas of technology convergence.
- Inculcating professional behavior, strong ethical values, leadership abilities, entrepreneurship skills and commitment to lifelong learning

### PROGRAM EDUCATIONAL OBJECTIVES

**Our graduates after few years of graduation will:**

**Preparation:** Develop professional skills for a successful professional career as an engineer, scientist, technocrat, administrator or an entrepreneur.

**Core Competence:** Design and implement practical systems consisting of software and/or hardware components through the key principles and practices of computation, mathematics and basic principles of engineering.

**Multidisciplinary:** Design and apply new ideas and technologies as the field evolves, to solve real world problems in related interdisciplinary areas.

**Professional Environment:** Demonstrate professional attitude and ethics, effective communication, team work and managerial skills for societal, environmental and global context.

**Learning Environment:** Engage in continuing education and training and acquire professional competence through lifelong learning.

### PROGRAM OUTCOMES

**Graduates will be able to**

**PO1:** Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

**PO2:** Problem Analysis: Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.

**PO3:** Design/Development of Solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

**PO4:** Conduct Investigations of Complex Problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions for complex problems.

**PO5:** Modern Tool Usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

**PO6:** The Engineer and Society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

**PO7:** Environment and Sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

**PO8:** Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

**PO9:** Individual and Team Work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**PO10:** Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

**PO11:** Project Management and Finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

**PO12:** Life-long Learning: Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

### PROGRAM SPECIFIC OUTCOMES

**PSO1.** Apply a variety of programming skills to solve business problems

**PSO2.** Apply design principles in the construction of computing systems and expert systems of varying complexity.

### ACADEMIC CONCLAVES IN VCET

#### ASSOCIATION ACTIVITIES

- Inaugural function of CSE association was conducted on 29.08.2023. Function was honored by Mr.S Sundara Raman National Head,Sales and Operations,Scopik Edutech Private Limited,Chennai-600091.
- Organized hands on training on 'Photoshop' on 21.07.2023 to 22.07.2023.
- Organized workshop on 'Amazon Web Services' on 01.08.2023.
- Organized orientation programme for 2022-26 Batch Students on 23.08.2023.
- Organized inaugural function of association, clubs and chapters on 29.08.2023.
- Organized Seminar on 'Digital Disruption and Disruption in Employability' for fresh ICI Graduates on 28.08.2023.
- Organized webinar on 'Data Analytics Application: Effective use in Different Industries on 05.09.2023.
- Organized hands on training on 'Data Science Using Python' on 08.09.2023.
- Organized workshop on 'Artificial Intelligence' on 20.09.2023.
- Organized an awareness program on 'Competitive exam' on 20.10.2023 by Mr.Thiagarajan Thirunavukkarasu, Director, T.I.M.E – Erode.
- Organized a Hands on Training 'Web Design using python' on 24.11.2023 by Mr. S. Sathish Kumar, Centre Manager, Dream Zone, Erode-638001, Mr. Gowtham. M,IT Trainer – Technical, CADD Centre, Erode-638011.
- Organized an Orphanage Visit on 25.11.2023 and gave awareness on 'Current trends in Computer Science and Engineering'.



- Organized a Hands on Training on 'Future Technology in IoT and AI/ML' on 29.12.2023 by Mr. A. Kesavan, Chief Executive Officer, Svasti Technology Solutions, Madurai -625016.

### PROGRAMS ORGANIZED

- Dr.V.Kavitha, Ms.R.Vidhya has organised five days Faculty Development Program on 'ICT45- Funding Opportunities in Engineering' sponsored by NITTTR, Chandigarh from 24.07.2023 to 28.07.2023 at Velalar College of Engineering and Technology, Erode.
- Ms.S.Nithya, Ms.M.Thilagarani has organised five days Faculty Development Program on 'Marketing in the METAVERSE Era' sponsored by NITTTR, Chandigarh from 21.08.2023 to 25.08.2023 at Velalar College of Engineering and Technology, Erode.
- Ms.I.Nivetha, Ms.D.S Eneeya Sri has organised five days Faculty Development Program on 'Maganerial Skills for Technical Teachers and Administrator' sponsored by NITTTR, Chandigarh from 28.08.2023 to 01.09.2023 at Velalar College of Engineering and Technology, Erode.
- Dr.S.Jabeen Begum organized a 13 Days Training programme on 'Mudra Loans & Business Correspondents for e-Sevai Operators' from 28.08.2023 to 13.09.2023.
- Dr.S.Jabeen Begum, Mrs.C.Kotteeswari organized ICTACT powered 5 Days FDP on 'DataAnalytics using Power BI' from 11.09.23.to 15.09.23.
- Dr.S.Jabeen Begum, Mrs.I.Nivetha coordinated Infosys Springboard Internship Program on 'New Content Alert -Google Certification and Professional Specialization'.
- Dr.S.Jabeen Begum coordinated the event 'Engineers Day and Teachers Day Celebration of 2023' on 29.09.23.
- Mr.P.Mariappan, Ms.S.Devisri have organized the special Lecture on 'Innovation and Entrepreneurship Opportunities in AI Technology Industry' for the III Year CSE Students on 25.08.2023 at Velalar College of Engineering and Technology, Erode.
- Mrs.R.Vidhya and Dr.V.Kavitha have organized a five day online FDP on 'Employability Skills for Industry 4.0' under the Entrepreneurship Development and Industrial Coordination Department by National Institute of Technical Teachers Training & Research (NITTTR), Chandigarh from 16.10.2023 to 20.10.2023.

### PLACEMENT ACTIVITIES

- Ms.Priyadharshini K & Ms.Swethaa J V got placed in Mallow Technologies Pvt Ltd.
- Ms.Natchattira T S got placed in lamneo.
- Ms.Santhiya K B got placed in Checktronic India Pvt Ltd.
- Mr.Bhavanishankaran K & Ms.Pangayarkarasi P got placed in ZUCI Systems.
- Mr.Gokul S & Mr.Mohamed Mohideen Asdhaque M got placed in One yes Infotech.
- 19 students got placed in 'Coapps Development Solutions Private Limited', Chennai.
- Sruthi K I got placed in 'KGISL Information System', Coimbatore.
- Vighnesh RaaghaV G got placed in 'Crypton Tech', Erode.
- 11 students got placed in 'Omega Health Care Pvt Ltd', Coimbatore.



## TRAINING ACTIVITIES

- Placement training was conducted from 19-June-2023 to 06-July-2023 by Focus Academy for carrier enhancement.
- Placement training on soft skill was conducted from 07-July-2023 to 12-July-2023 by Focus Academy for carrier enhancement.
- Program on Enrichment of Programming Skills conducted in the month of August 2023.
- Practice test Conducted through examly Portal.



## ALUMNI INTERACTION MEET

- Organized an Alumni Interaction Meet with second students on the topic 'Full Stack Development' by Mr Muraleesh Duraisamy(2006 - 2010), General Manager, M/S. Schneider Electric India Pvt. Ltd., Bangalore on 28/12/2023.

## STUDENTS ACTIVITIES

- Ms Karunya G S, 732922CSR058 has won First Prize in the event English Essay Writing Competition by Fine Arts Club of VCET in the view of Bharat Ratna Dr APJ Abdul Kalam's birth Anniversary on 7.11.2023.
- Ms Harshana D, 732921CSR031 has participated in Thinkathon by PALS at MAM college Trichy on 28.11.2023.
- Ms Harshana D, 732921CSR031 has won First Prize in the event mini project creation by PALS at IIT Madras in the view of Storm water drain blockage detection system(think create enginner workshop) on 27.12.2023.
- Ms Mohanapriya C, 732921CSR062 has participated in the Workshop on 'React JS' conducted by Dr. N. G. P Institute of Technology on 25.08.2023.
- Ms Geethasri D, 732921CSR022,has won First Prize in the event Capture the Flag Competition in Genio 2k23 conducted at Anna University Regional Campus,Coimbatore at 31.10.2023.
- Mr Mukilan SS, 732922CSR078 and Mr Piruthvi M, 732922CSR082 has participated in 'Techstars Startup Weekend :Sustainability Coimbatore' conducted by AIC RAISE from 01.12.2023 to 03.12.2023.
- Ms DEEPIGA S K, 732921CSR015 has participated in the Workshop on 'React JS' conducted by Dr. N. G. P Institute of Technology on 25.08.2023.
- Mr Mukilan SS, 732922CSR078 and Mr Yaswanth R, 732922CSR124 has participated in 'Techstars Startup Weekend' conducted by Open Weaver from 28.10.2023 to 30.10.2023.

## NPTEL

- Akhila Shree K V of third year CSE has successfully completed a course on 'Programming, Data Structures And Algorithms Using Python'.

## INTERNSHIP

- 15 students undergone Internship training in various companies.
- 120 Students of final year have completed their internships.

## PAPER PRESENTATIONS

- 11 Students of second have presented papers in National level Technical Symposium at Bannari Amman Institute of Technology, Sathyamangalam on 11.11.23.

## CLUB ACTIVITIES

### HACKERS BAY CLUB

- A Seminar on 'CTF MAX' was handled by the core members of the club to third year students of CSE on 26.07.2023. Capture the Flag competition was conducted among the students so that they can practice and sharpen their skills.
- A Workshop on 'Amazon Web Services' was conducted on 01.08.2023. The workshop was led by Mr. G. Aravindraj, Founder & CEO of NmindsAcademy, Erode.
- Organized a Seminar on 'CTF MAX 2.0' on 26.09.2023 for second-year CSE students. The programme was conducted to give an introduction about the club followed by 'Capture the Flag competition'.
- Organized Placement Orientation Session for pre final year students on 02.11.2023 (Resource Person : Thiru.Vamsi Krishna Komanduru, Chief Executive Officer, Dishak Technologies Private Limited, Bengaluru).
- Organized Hands-on Training on 'GitHub Tour 2.0' for Second , Third year students on 21.11.2023.



### PYLAMP CLUB

- Organised a technical event 'Solvide' which mainly focused on problem solving and helping the club members to proceed with the problems on 19.07.2023. The event was honored by Lamin Muhammed M(Tech Champ), Kaarthika M (Pymentor).
- Organised a technical event 'Resumea' focused on building effective resumes tailored to specific job applications on 12.08.2023. The event was honored by Sanjay Kumar( Tech Wizard) and Sanjay Vijayakumar(Grandmaster).
- Conducted the 'Mentor Requirement test' to select the core members for PyLamp club on 25.08.2023. The event was honored by All the PyLamp Members.
- Organised a technical event 'Domain Realm' focused on choosing the domain and providing a path for all the students to choose their domain on 12.09.2023. The event was honored by Sanjay Vijayakumar (Grandmaster).
- Organises technical event series 'Tech Talk Thursday' on every Thursday to create an awareness among the members on the recent emerging technologies. The event was honored by our Pylamp Core Team Members.
- 'Domain realm 2.0' focused on discussing various domains, including enhancing clarity for individuals building their careers. The event was held on 19.10.2023. The event was conducted by Pylamp core members.
- 'SOLVIDE-2' focused on Problem solving. The event was held on 10.11.2023 and conducted by Lamin Muhammed M(Tech Champ) and Gokul S (Senior Pymentor).





- 'The Untold Story of AR/VR for Beginners' held on 5.10.2023 conducted by Logeshwaran P.
- 'Exploring Graphic Designing & Creating Logo' using AI held on 12.10.2023 conducted by Shakthi Varshaa R, Logamitra K M.
- 'The Art of App Development' held on 26.10.2023 conducted by Maheen Muhammed Ismayeel M.
- 'Domain Realm - An Online Version' held on 2.11.2023 conducted by Sowbharnika S, Swathi N, Kaarthika M.
- 'Exploring Data Analytics' held on 09.11.2023 conducted by Sivambiga S.
- 'Web 3.0 and Blockchain' held on 16.11.2023 conducted by Mukilan S S.
- 'Domain Realm - An Online Version – 2' held on 23.11.2023 conducted by Lamin Muhammed M, Sanjaykumar S.
- 'Introduction To Open Source' held on 30.11.2023 Elanngo Madheswaran, Sudarsan M
- 'Success Stories & Strategies' held on 07.12.2023 honoured by Akila Subramaniam, Founder&CEO of Minnus Boutique.
- 'Generative AI & Deep Fake Insights' held on 14.12.2023 conducted by Pylamp Core members (Karunya G S).
- 'Smart Home' held on 21.12.2023 conducted by Santhiya V.
- 'Chat GPT plus' held on 28.12.2023 conducted by Mukilan S S.



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#### DATA PIRATES

- Organized seminar on 'LinkedIn Profile Optimization & Digital Marketing' on 02.08.23.
- Organized an eye opener session on 'Data Science Domain' on 23.09.2023.
- Organized 'Insight Ignition An Intro to Data Analytics' on 08.11.2023.
- Organized online Workshop on 'Insight Ignition 2.0(Power BI domination workshop)' on 14.11.23.



#### TECH CREW CLUB

- Organized workshop on 'Basics of Flutter' on 28.07.23.
- Organized an seminar on 'Digital Disruption and Disruption in Employability for Fresh ICT Graduates' was conducted on 28.08.2023. The workshop was led by Dr. Radhakrishnan Subramaniam, Director NCS - Singtel Group, DevOps and Automation Practice Lead, Coimbatore.
- Organized seminar on 'Basics of Flutter' on 27.09.23.
- Organized workshop on 'Routing in Flutter' on 04.11.23.
- Organized seminar on 'Entrepreneurial Endeavors' on 09.11.23.



#### CSI CLUB

The Computer Society of India (CSI) - Student Chapter

organized the following workshop and events for the students:

- A Technical seminar on 'Hardware Perspective of Gadgets' on 24.08.2023 to the CSI society members. The seminar focused on the live study on the various hardware parts of the gadgets.
- A Technical talk on 'placement opportunities in recent trends' by our alumni Mr.Karthik Nannepamula, MTS/R&D Metricstream Infotech, Bangalore on 02.09.2023. The event inclined to make the students to apprehend the industry expectation and shape up for the same.
- A Three days workshop on 'Mindfulness a Heartfulness Way' was conducted to all the students of CSE was conducted from 12-09-2023 to 14-09-2023. The workshop focused on self-respect, self-care, self-awareness, self-discipline and self realization for persisting a stress-free life.



#### FACULTY ACHIEVEMENTS

##### CONFERENCES

- Dr.S.Jabeen Begum has presented a paper on 'Spectral Data Classification for Supply Chain Management' in 5<sup>th</sup> International Conference on Inventive Research in Computing Applications organized by RVS College of Engineering and Technology from 03.08.23 to 05.08.23.
- Dr.S.Russia has presented a paper on 'Augmented Reality based Smart Surgical Glass for Medical Surgery' in 14<sup>th</sup> International Conference on Computing, Communication and Networking Technologies, held at IIT-Delhi, in association with IEEE Electronics Packaging Society, on 06.08.2023.
- Dr.S. Russia has published the paper on 'A Novel Structure to Mine High Utility Items Based on Transactional Weights' in the First International Conference on Advances in Electrical, Electronics and Computational Intelligence (ICAEECI 2023) held at K.S.R. College of Engineering, Tiruchengode, Tamil Nadu, India during 19-20, October 2023.
- Mrs. R Vidhya has presented and published a paper on 'Map Reduce Based K-Means Genetic and C- Means Fuzzy Clustering Formation for Community Detection and Community Validation' in the 7th International Conference on Electronics Communication and Aerospace Technology (ICECA 2023) held at RVS Technical campus, Sulur, Coimbatore, Tamil Nadu, India during 22-24, November 2023.

##### WORKSHOPS

- Dr.V.Latha Jothi has participated in the Workshop on 'Blockchain Technology and its Applications' organized by National Institute of Technology, Tiruchirappalli from 21.08.23 to 25.08.23.

##### SEMINARS

- Dr.S.Russia has attended webinar on 'Biodegradable Polymers' conducted by Thiagrajar College of Engineering, Madurai (TCE EIACP PCRP on Plastic Waste Management) on 25.08.2023.

## FDP ATTENDED

- Dr.S.Gokulraj, A.P.Gopu, S.Senthilnathan, P.Mariappan, S.Devisri,D.Yamunathangam ,K.Mohanapriya,Ms.S.Nithya, Ms.M.Thilagarani, Ms.I.Nivetha,Ms.V.Raaga Varsini has attended five days Faculty Development Program on 'Data Science Using R' sponsored by NITTTR, Chandigarh from 17.07.2023 to 21.07.2023 at Velalar College of Engineering and Technology, Erode.
- Dr.S.Gokulraj, has participated in the Three Days Faculty Development Program on 'Recent Trends and Research Methodologies in Information Technology' organized by Department of Information Technology, Adithya Institute Of Technology, Coimbatore, from 24-07-2023 to 26-07-2023.
- Dr.S.Russia & Dr.V.Latha Jothi has attended in five days Faculty Development Program on 'Full Stack Development' conducted by Kamaraj College of Engineering and Technology, Virudhunagar from 11.07.2023 to 15.07.2023.
- Dr.S.Gokulraj & Dr.V.Latha Jothi, has participated in the One week National level Faculty Development Program on 'Cloud Infrastructure' organized by Erode Sengunthar Engineering College in collaboration with Brainovision Solutions India pvt Ltd and AICTE during the period of 21.08.2023 to 25.08.2023 August 2023.
- Dr.S.Gokulraj, A.P.Gopu, S.Senthilnathan, P.Mariappan, S.Devisri, D.Yamunathangam Ms.S.Nithya, Ms.M.Thilagarani,Ms.V.Raaga Varsini has attended five days Faculty Development Program on 'Marketing in the METAVERSE Era' sponsored by NITTTR, Chandigarh from 21.08.2023 to 25.08.2023 at Velalar College of Engineering and Technology, Erode.
- Dr.S.Jabeen Begum, Dr.V.Latha Jothi, Dr.S.Gokulraj, S.Vivekanandan, A.P.Gopu, S.Senthilnathan, P.Mariappan,S.Devisri ,K.Mohanapriya Ms.S.Nithya, Ms.M.Thilagarani has participated in five days Faculty Development Program on 'Microsoft Power BI data Analyst Associate' conducted by ICT Academy on 11.09.2023 to 15.09.2023 at Velalar College of Engineering and Technology, Erode.
- D.Yamunathangam has attended Faculty Enablement Program on Generative AI Training on Citizen Data Science organised by Infosys from 31.7.2023 to 27.9.2023.
- Ms.S.Nithya, Ms.M.Thilagarani has attended a one week online FDP on Innovative Teaching Methodology-A Creative Pedagogy organised by D.Y. Patil College of Engineering in association with ISTE and IQAC DYPCOE from 21.7.2023 to 04.08.2023.
- Ms.I.Nivetha, Ms.D.S Eneeya Sri, Ms.V.Raaga Varsini has attended five days Faculty Development Program on 'Maganerial Skills for Technical Teachers and Administrator' sponsored by NITTTR, Chandigarh from 28.08.2023 to 01.09.2023 at Velalar College of Engineering and Technology, Erode.
- Mrs Vishlakshi R, Mrs Vidhya R have participated in AICTE sponsored the five day online Faculty Development Program on 'Emerging Trends in Artificial Intelligence and Machine Learning' organized by Faculty Development Training Centre, Government College of Technology, Coimbatore from 04.12.2023 to 08.12.2023.
- R.Vishalakshi participated in a five days Faculty Development Program on 'Outcome based Curriculum Development ' sponsored by NITTTR, Chandigarh from 11.09.2023 to 15.09.2023 at Velalar College of Engineering and Technology, Erode.
- Dr.S.Jabeen Begum, Dr.V.Latha Jothi attended the five days AICTE-ATAL sponsored Faculty Development Program on 'Design Challenges and Realization of Wearable Antennas from an Antenna Engineer Perspective' at Velalar College of Engineering and Technology from 18.12.2023 to 23.12.2023.
- K Mohanapriya attended the Faculty Development Program on 'Virtual Labs' organized by Pals Vlab 2023 – 24 Initiative with NITK Surathkal.
- Dr.S.Russia has attended the five days AICTE-ATAL sponsored Faculty Development Program on 'Block Chain Technology with AI for Next Generation Computing' at K.S.Rangasamy College of Technology, Thiruchengode from 30.10.2023 to 04.11.2023.
- Dr.S.Russia has attended the five days AICTE-ATAL sponsored Faculty Development Program on 'Design Thinking On Strategic Development Goals (SDG)' at Vivekanandha College of Engineering For Women, at Elayampalayam from 27.11.2023 to 02.12.2023.
- Dr.S.Russia has attended the ICTACADEMY sponsored 15 Hours Online FDP on 'TensorFlow for Machine Learning' from 27.11.2023 to 01.12.2023.
- Dr.S.Gokulraj has attended one day Industrial Workshop on ' Design Thinking' at Zenovex Technologies, Software Technology park, Chennai on 16.12.2023.
- Dr.S.Gokulraj has undergone Innovation Ambassador (IA) training 'Foundation Level' conducted in online mode by MoEs innovation Cell & AICTE during the month of December 2023.
- R.Vishalakshi attended one week FDP on 'Deep Learning and AI based Health care system' from 18.12.2023 to 24.12.2023 organised by Department of ECE, Coimbatore Institute of technology, Coimbatore.
- Dr.V.Kavitha, Ms.I. Nivetha has attended the International Level Virtual Faculty Development Program on 'Modern Research Convergence in Next Generation Computing' from 18.12.2023 to 22.12.2023.
- Dr.V.Kavitha, Ms.I.Nivetha has attended five days online FDP Program on 'AI based Edge and Fog Computing:A Future direction' from 30.10.2023 to 03.11.2023.
- Dr.V.Kavitha has attended Wipro Certified Faculty Program in '.NET Fullstack' conducted by Talent Next from 11.09.2023 to 03.10.2023.

## KEY NOTE ADDRESS DELIVERED

- Dr.S.Russia acted as a Resource Person in Seminar on the topic on 'Data Science – Overview' organized by Rendering Clan Technical Club, ECE Department, VCET on 08.11.2023.
- Dr.S.Russia acted as a Resource Person in SERB sponsored 2nd National Level Technical Symposium on 'Innovations in Intelligent Systems and Soft Computing' on the topic 'Soft Computing and Intelligent Systems: Techniques and Applications' at Muthayammal Engineering College, Rasipuram on 06.01.2024.

## PAPER PRESENTED

- Ms.Vidhya R presented a paper on International Conference on Computational Sciences And Applied Mathematics (ICCSAM 2023) on 'Hybrid Design Of Advanced Crop Recommendation System Using Machine Learning'.

## NPTEL PROGRAMS ATTENDED

- Dr.S.Russia, Ms.R.Vidhya has completed the course on 'Python for Data Science'.
- Dr.V.Latha Jothi has secured Elite certification in the course on 'Design and Analysis of Algorithms'.
- Dr.V.Latha Jothi received NPTEL Top performing Mentor certificate for the course 'Introduction to internet of Things' in July-December 2023.
- K.Mohanapriya received NPTEL Mentor certificate for the course 'Introduction to internet of Things' in July-December 2023.
- Dr.S.Russia received NPTEL Mentor certificate for the course 'Organizational Behaviour' in July-December 2023.

## BOOK PUBLICATIONS

- Dr.S.Russia wrote the book 'Foundations of Data Science' for Anna University, R2021 syllabus for Charulatha Publications, Chennai.
- Dr.V.Latha Jothi published the book titled 'Distributed Computing' for Anna University R2021 with ISBN 978-93-87950-67-2 in September 2023 for Lakshmi Publications, Chennai.
- Dr.S.Jabeen Begum published the book titled "Artificial Intelligence" in November 2023 for Charulatha Publications.

## RESEARCH ACTIVITIES

### JOURNAL PUBLICATIONS

- Dr. S. Gokulraj published a paper on 'Optimizing Pre-Trained Models of Deep Learning for Identification of Plant Disease' International Journal on Recent and Innovation Trends in Computing and Communication, ISSN: 2321-8169 Volume: 11 Issue: 10s, September 2023.
- Ms.M.Mohanasundari published the paper 'Brain Tumor Detection Based on Amended Convolution Neural Network using MRI Images' in International Journal of KSII Transactions on Internet and Information Systems (ISSN No. 1976-7277), Vol. 17, No.10, pp. 2788 – 2808.
- Dr.S. Russia has published the paper on 'Augmented Reality based Smart Surgical Glass for Medical Surgery "in 2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT), published by IEEE.

### PATENT PUBLICATIONS

- Dr.S.Jabeen Begum published a patent titled 'Implementation of Graph-Based Machine Learning Techniques for Just-In-Time Defect Prediction of Manufacturing Units' on 01.09.2023 with application number 202341055409A, Journal No: 35/2023.
- Dr.S.Gokulraj registered a design patent titled 'Smart Tablet Vending Machine' (Design No-388995-001, Publication Date: 25/08/2023, Journal No: 34/2023).
- Dr.S.Russia published a patent 'Enhancing Smart City & IoT Solutions with Adversarial LSTM & CNN Models' on 01.09.2023 with application number 202341049093A.
- Dr.V.Latha Jothi registered a design patent titled 'AI based Apparatus for Skin Disease Detection' (Design No- 383347-001, Publication Date: 13.07.23, Journal No: 28/2023).

- Ms.M.Thilagarani published a patent 'Implementing Ai Techniques to analyse the Futuristic Trends In Diabetic Retinopathy' on 01.09.2023 with application number 202341055450A.
- Dr.V.Latha Jothi published a Design patent 'AI based Hybrid Leg' (Application No. 398175-001) on 20.11.2023.
- Ms. M.Mohanasundari, Ms. C.Kotteeswari published a design patent on 'AI based Blood Flow Monitoring Device in Head' (Application No. 397793-001) on 23.11.2023.
- Ms. I. Nivetha published a patent on 'AI based Smart Conversational Robot to Assist Blind People using Cloud & ML Algorithms' (Application No. 202341065080) on 01.12.2023.
- Mr. P. Mariappan published a UK design patent on 'Cholesterol Monitoring Device' (Application No. 6319725) on 04.12.2023.
- Ms. D S Eneeya Sri published a patent on 'Recycling of Waste Water & Water Management into Irrigation Water in Smart Cities Using IoT' (Application No. 202341059449) on 06.10.2023.
- Dr.V.Kavitha Published a Patent 'Automation Nursing Robot for Hospitals Based on Wireless Beacon Network' Application No 202341068192 on 20.10.2023.

## AWARDS / RECOGNITIONS

- Mrs Vidhya R has acted as the Jury for the event Paper Presentation in the Intra College Mini Symposium- KNACK'23 organized by Rotaract Council, Rotaract Club of VCET, Group - 1; RI District 3203 on 25.11.2023.
- Mrs Vidhya R and Dr Kavitha V have received Certificate of Appreciation for conducting a five day online FDP on 'Employability Skills for Industry 4.0' under the Entrepreneurship Development and Industrial Coordination Department by National Institute of Technical Teachers Training & Research (NITTTR), Chandigarh from 16.10.2023 to 20.10.2023.

## RESOURCE PERSON

- Dr.S.Russia acted as a Reviewer at 2nd International Conference on Intelligent Computing Systems and Applications (ICICSA 2023), organized by Department of Computer Science and Engineering, National Institute of Technology Silchar, Assam, India during September 22-23, 2023.
- Dr.V.Latha Jothi acted as a Reviewer for the 14th International Conference on Computing, Communication and Networking Technologies, held at IIT-Delhi, in association with IEEE Electronics Packaging Society, from 06.07.23 to 08.07.23.
- Dr.V.Latha Jothi acted as a Reviewer for the IEEE International Conference on Networks, Multimedia and Information Technology (NMITCON) organized by NITTE Meenakshi Institute of Technology, Bengaluru on 01.09.2023 and 02.09.23.

## INDUSTRIAL VISIT

- 104 Students of III year CSE along with 4 faculty members went to an Industrial Visit 'Masco Tea Factory', Vagamon, Kerala on 30.09.2023.
- 92 Students of II year CSE along with 4 faculty members went to an Industrial Visit 'Cloud Logic Technology Pvt. Ltd', Pondicherry on 14.10.2023.







**VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY**  
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