



# VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous)

Accredited by NAAC with 'A' Grade

Thindal, Erode - 638 012

**NEWSLETTER**

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Accredited by NBA

Volume 22

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Issue 2

### Editorial Board

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### MESSAGE FROM THE HOD

It gives me immense pleasure to lead the department of CSE. Our College is one of the premier institutions, unique like a prism reflecting the manifold shades of learning and co-curricular activities. The very motto of our department is to provide quality education. The process of learning is extremely important in life. What you learn, how you learn and where you learn play a crucial role in developing ones intellectual capability, besides career. Along with academic knowledge CSE also trains its Engineers to face the challenges in life by providing many value added courses to enhance their career prospects. The excellent infrastructure, teaching faculty of the best kind ensuring quality education such as interaction among students, parents and staff, along with a Training and Placement Cell ensures a bright future to its students. Thus, we are confident that our Engineers will emerge as assets not only to this institution and to the organization they belong, but also to the country at large.



### 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.

### MOU ACTIVITIES

- MoU was signed between department of CSE and Livewire on 04.03.2022
- MoU was signed between department of CSE and Carifer Technologies private limited on 23.03.2022

### ASSOCIATION ACTIVITIES

- A seminar on 'A Grasp on Web Blooming' was conducted on 03.03.2022. The function was honored by Mr. Abhinivesh Executive member of MAGNUMOPUS.



- A Technical seminar on 'Awareness Program along with Speed Maths Techniques and Logical Reasoning' on 10.03.2022. The function was honored by Mr. Thiagarajan Thirunavukkarasu Director T.I.M.E.



- A Technical Talk on 'The Journey from an Idea to Real World Product' on 16.03.2022. The function was honored Ms. Pavithra Partiban, Director, Carifer Technologies Private Limited, Erode, India.



- A Technical seminar on 'MACHINE LEARNING' on 02.05.2022. The function was honored by Mr. Dr. R P Ram Kumar, Professor & Head, Department of Computer Science and Engineering, KGiSL Institute of Technology, Coimbatore.



- Association of CSE organized seminar on 'Data Engineering Aspects' on 14.05.2022.



- Association of CSE has conducted the Webinar 'learning' on 02.05.2022. The function was honoured by Dr. R P Ram Kumar, Prof & Head, KGiSL Institute of Technology, Coimbatore.

- Association of CSE has conducted the 'Hackathon' project contest for the students of final year CSE on 17.05.2022

- Association of CSE have conducted technical event 'FUN QUIZZICLE' on 17.05.2022
- The Association of CSE MAGNUMOPUS and various CLUBS OF CSE has conducted valedictory function on 26.05.2022

### CLUB ACTIVITIES

- 46 participated in an event "Tick Or Trick" organized by Data Pirates Club on 9.3.2022
- 56 participated in an event "Seminar on Data Visualization And Business Intelligence" organized by Data Pirates Club on 24.3.2022
- 86 participated in an event "Seminar on Future of Full Stack Developer contest" organized by Data Pirates Club on 21.4.2022
- 38 participated in an event "Refresh 2.0" organized by Pylamp Club on 29.01.2022
- 89 participated in an event "Techiefun" organized by Pylamp Club on 17.03.2022
- 136 participated in an event "A seminar on Data Visualization Tools" organized by Pylamp Club on 08.04.2022
- 35 participated in an event "A talk on current trends in the IT world" organized by Pylamp Club on 09.04.2022
- 30 participated in an event "Seminar on OSINT-101" organized by Owasap Club on 02.02.22
- 50 participated in an event "Web Tech Quiz" organized by Owasap Club on 02.03.22
- 35 participated in an event "Capture the Flag Quiz" organized by Owasap Club on 07.04.22
- 50 participated in an event "Seminar on Deep dive into Hacking" organized by Owasap Club on 10.3.22
- 40 participated in an event "Demonstration on ethical hacking" organized by Hackerbay Club on 18.03.2022
- 43 participated in an event "CTF based on red team" organized by Hackerbay Club on 06.04.2022
- 45 participated in an event "CTF based on blue team" organized by Hackerbay Club on 13.04.2022
- 80 participated in an event "Guest Lecture On starting a startup while pursuing your professional course." organized by Hackerbay Club on 25.05.2022



### INDUSTRIAL VISIT

- Our third year students went one day industrial visit to Iroid Technologies, Kochi on 28th April 2022. Totally 111 students along with 4 faculty members have joined the industrial visit.



### STUDENTS ACTIVITIES

The following students were presented their paper in the National Conference on Trends in Engineering Applications conducted by Velalar College of Engineering and Technology on 06.05.2022.

- AJITH KUMAR K . S, KAPILANANTH K . S, ARUL PRAKASH S 'Alzheimer Disease Segmentation and Classification using RCNN'

- AATHISH B, KAVINKUMAR M, DHARSHAN G 'Improved Detection and Prevention Mechanisms for DDOS Attack in Cloud Computing Environment'
  - DEEPANAA R, DEEPIKA S, DHARUNKUMAR S 'Prediction of Chronic Kidney Disease- Machine
  - DHANUSH K R, HARSHAVARTHANAN P, GOKULAKRISNA V . JAY 'Joint Resource Allocation for device to device communication assisted Fog
  - JAYKRISHNAR, JEEVITHAAS, GOWTHAM M 'Image Detection and Feature Retrieval using CBIR'
  - AISWARYA A, DEEPANKUMAR S, AAKASH P K 'An optimized Blockchain - Topoguard framework for resource management'
  - APITHA N, JAGADEESH S, DHIVISH K 'Caser Node device discovery in cloud computing'
  - KEERTHANAS, GOKULA PRIYAR 'An Identity Management and Authentication Scheme Based on Redactable Blockchain for mobile networks'
  - JANET REXIYA M, HARIPRIYA A 'A machine learning based cyber security intrusion detection system'
  - KAVIYARASU V, DARANEES M S, DHANSURRYA S P 'Invulnerable data transfer using Inter Planetary File System(IPFS)'
  - AARTHI P, MANI SHANKAR G, CIBI T S 'Tenant-Led Ciphertext Information Flow Control for Cloud Virtual
  - JANANI V P, KARTHIKA T 'Predicting at-risk students in the virtual learning environment using Support Vector Machine'
  - HARIHARAN S, GOKUL RAJA T 'Semantic Segmentation of satellite images using Deep Learning'
  - MAHESHWARI M, GOWSHIGA S 'Predicting the faults in industrial metals using Support vector machine'
  - KAVYA SRI R , LOGESHVAR B 'Arrhythmia classification on Electrocardiogram'
  - DANUSH R, KAYALVILI K G 'Predicting the mode of childbirth using random forest with label encoding'
  - KIRUTHIKAA , HEBSIBA JENIFER R 'Encryption and decryption analysing for grey-color medical image analysis using RSA'
  - DHIVYABHARATHI S, GOKULAVANI P K 'Overcoming Jamming using
  - KAVIPRIYA K, KEERTHANA R 'Detection of Face mask and Social Distancing using SSD Object detection Algorithm'
  - BANUMATHI G, MALKA FIRDAUS A 'Analysis of road traffic fatal accidents using data mining techniques'
  - HEMAPRIYA S, BRINDHA P 'Data access control model with cipher-text Authentication'
  - SANGAVI J, MERCY BEAULAH A, SHRIMATHI S 'A proficient privacy protection method for cloud computing'
  - U R VISHWEESH, THIYAGARAJAN S, SABARISH V 'Stock Trend Prediction with Candle Stick Charting using LSTM algorithm in Machine Learning'
  - NIVAASHINI E S, PREETHI B 'A Automated Framework: Ensemble based House Price Prediction System'
  - YUVASRI C, SRI SANTHIYA V 'Data Integrity Auditing with Private Key based Online and Offline Verification for Secure Cloud Storage'
  - RAJASRI S, RAMYA VIPASHINHI M S R 'Dengue prediction using Machine Learning'
  - POONGODI T, SOWMIYA R, SRI MATHI.K 'Cloud Edge for Task Deployment and Load Balancing'
  - RAMANI L , RATHINA SNEKA M , SRI SHARAN P 'Obtrusion identification using voting based neural networks'
  - RUBAN KUMAR V, SOWMIYA K, VIJAYAKUMAR P 'An Effective Brain Tumors Claasification Based on MRI Dataset using Support Vector'
  - NIKILA A, SABARI S 'Prediction of heart disease using data mining techniques'
  - NARMATHA V, SWATHI G 'A Data mining approach for predicting subscription status of twitch users'
  - J. NOUSHEEN SHERIFA, K.YUVAASHRIE , R.PRIYATHARSHINI 'Automated Image Captioning Generation - In Deep Learning'
  - MOUNIKAS, PRIYANKA SRI R 'Hospital Secured Data Access Management with Privacy Protection using Blockchain
  - PREETHI S, RAJAM A 'A content based E -learning using classification
  - N P PRAVEEN, J SHERWIN SURYA, M.SATHISH KUMAR 'An improved machine learning approach for denial of service analysis'
  - J.SRIRAM, K.NAVEEN KUMAR, S.NITHISH KUMAR 'Machine Learning based Image Steganography'
  - NIVETHA G, SULAIKHALBEEVI M, SNEHA M 'Reduced energy consumption of data transmission for TCP download/uploads'
  - SARANYA V, SAATHVI R, SWETHA.M 'Diagnosing the prostate cancer using deep learning'
  - SOLOMON S, VISHVAKESH R L 'A Hybrid Algorithm to Enhance the Image Deblurring Model'
  - RAMYA M R, POOJA S, MAYILVEL RAVINDRAN P 'Software Vulnerability Classification Using Deep And Artificial Neural Networks'
  - SHARMILAT, VISHALI S, PRARTHANA N 'Big Data Analytics and Mining for Effective Visualization and Trends Forecasting of Crime Data'
  - JEEVANANTHAM G, VASANTH L, SELLA KUMAR C 'Prediction of Task Performance from Physiological Features of Stress Resilience'
  - JEEVANANTHAM G, VASANTH L, SELLA KUMAR C 'Prediction of Task Performance from Physiological Features of Stress Resilience'
- PLACEMENT ACTIVITIES**
- 04 students got placed in 'M-PHISIS', Chennai, for the position of Trainee Associate Software Engineer, Cost To Company Offered 3.25 lakhs per annum.
  - 02 students got placed in 'CAPGEMINI', Banglore, for the position of Associate Trainee, CTC Offered 3.5 lakhs per annum.
  - 01 student got placed in 'R-SYSTEMS', Chennai, for the position of Trainee Software Engineer, CTC Offered 3.6 lakhs per annum.
  - 01 student got placed in 'KAAR TECHNOLOGIES', Banglore, for the position of Trainee Software Engineer, CTC Offered 6.5 lakhs per annum.
  - 01 student got placed in 'ELAIT IT TECHNOLOGY SERVICES PVT LTD', Chennai, for the position of Trainee, CTC Offered 4.5 lakhs per annum.

- 01 student got placed in 'SOPRA STERIA', Chennai, for the position of Engineer Trainee, CTC Offered 6.0 lakhs per annum.
- 01 student got placed in 'ITC INFOTECH INDIA LTD', Chennai, for the position of Associate IT Consultant, CTC Offered 4.25 lakhs per annum.

## **FACULTY ACTIVITIES**

### **WORKSHOP ATTENDED**

- Dr.S.Kayalvili, K.Vijaya have participated in AICTE sponsored workshop on 'Preparation of SAR for NBA (Tier 1)' organized by Department of Mechatronics Engineering, Kongu Engineering College on 02.02.2022.

### **SEMINARS/WEBINARS ATTENDED**

- Dr.S.Jabeen Begum, Dr.V.Latha Jothi and Dr.S.Kayalvili have participated in the Six Days International Tech Talk Series titled 'Industry Institute Integrated Technology Transfer' organized by KGiSL Institute of Technology, Coimbatore from 14.03.2022 to 19.03.2022.
- Dr.S.Jabeen Begum, Dr.V.Latha Jothi and Dr.S.Kayalvili has participated in IP Awareness/Training program under National Intellectual Property Awareness Mission on 15.03.2022.
- Dr.S.Gokulraj, Dr.S.Sadesh have participated in the Virtual Faculty Development Program on Fundamentals of Cloud Computing, IBM Watson and Permissionless and Permissioned Block chain Systems:Myths and Reality, during 09.02.2022 to 11.02.2022 Organized by PALS-IIT.
- Ms.R.Vishalakshi have participated Short Term Training Programme on 'Data Science and Hydrogeological Studies' conducted by Department of Information Technology and Department of Applied Geology during 16.02.2022 to 20.02.2022 at National Institute of Technology Raipur, Chhattisgarh

### **FACULTY ENABLEMENT PROGRAM**

- Dr.S.Jabeen Begum, Dr.V.Latha Jothi and Dr.S.Kayalvili have completed in the AICTE/ISTE approved Orientation Programme on 'Advance Pedagogy using Smart Tools' held during 21.01.2022 to 28.01.2022 organized by K.L.N. College of Engineering.
- Dr.S.Jabeen Begum, Dr.V.Latha Jothi and Dr.S.Kayalvili have completed AICTE-NITTT Mentor Orientation Training Programme organized by NITTTTR-K Mentor Training Team, National Institute of Technical Teachers' Training & Research, Kolkata from 07.02.2022 to 11.02.2022.
- Dr.S.Gokulraj, has participated in AICTE-ISTE Sponsored Refresher Programme on 'Collaboration of AI with AR and VR' held during 14.02.2022 to 19.02.2022 Organized by KSR Institute for Engineering and Technology, Tiruchengode, Tamilnadu.
- Ms.R.Vishalakshi have participated in the Faculty Development Program on 'Block chain and its applications', during 07.03.2022 to 11.03.2022 Organized by Presidency University, Karnataka.
- Ms.M.Thilagarani, Ms.S.Keerthika has participated in the Six-day Faculty Development Training Programme on 'CS8074-Cyber Forensics' from 02.02.2022 to 08.02.2022 Conducted by Jaya Engineering College, Thiruninravur.
- Dr.S.Sadeesh participated one week faculty development program on ' ICT tools for effective teaching learning' from 23.05.2022 to 28.05.2022 at Amar Sewa Mandal's Kamala Nehru Mahavidyalaya, Nagpur, Maharashtra.

- Dr.S.Gokulraj has attended two days training programme for 'Mentors of Standards Club' held during 28.04.2022 to 29.04.2022 at Chennai, Conducted by Bureau of Indian Standards, National Institute of Training for Standardization.
- Dr.S.Gokulraj has attended three days online FDP on 'Intelligent Computing with IOT in Health Care' Organized by department of Information Technology, Mepco Schlenk Engineering College, Sivakasi on 09.05.2022 to 11.05.2022
- Ms.R.Vishalakshi has attended a program on IEEE SPS Seasonal School on 'Image , Audio,and Video Processing for Patteren Recognition' from 23.06.2022 to 28.06.2022 held at Kumaraguru College of Technology, Coimbatore – 641049.

### **LECTURE / KEY NOTE ADDRESS DELIVERED**

- Dr.S.Kayalvili has acted as Resource Person for the Faculty Development Program on 'OUTCOME BASED EDUCATION' held on 27.01.2022, organized by Internal Quality Assurance Cell, Vellalar College of Education.
- Dr.S.Kayalvili has acted as resource person in the workshop on 'Program Outcome (PO) Attainment', organized by Velalar College for Women on 29.04.2022.
- Dr.S.Kayalvili has acted as resource person in the webinar on 'NBA-OBE- CO PO Mapping', organized by SNS College of Technology, Coimbatore on 29.06.2022.
- Dr.V.Latha Jothi delivered a lecture on 'Approximation Algorithms for NP - Hard Problems' at KGiSL Institute of Technology on 30.05.2022
- Dr.V.Latha Jothi delivered a lecture on 'Analysis of Iterative Improvement Problems' for II year students in JP College of Engineering on 01.06.2022.
- Dr.S.Kayalvili acted as resource person for the event "Workshop on PO attainment" held on 29/04/2022 at Vellalar College for Women
- Dr.S.Kayalvili acted as resource person for the event "Workshop on PLO and CLO Mapping and attainment Computation" held on 12/5/2022 at Vellalar College of Education
- Dr.S.Kayalvili acted as resource person for the event "Faculty Development Program on Outcome Based Education" held on 27/1/2022 at Vellalar College of Education
- M.Mohanasundari acted as resource person for the event "Guest Lecture" held on 13/05/2022 at JP College of Engineering

### **CONFERENCE PRESENTED**

- Dr.S.Jabeen Begum has presented a paper on 'Rainfall monitoring using artificial neural network and ARMA based ground water' in International Conference organized by PSN Institute of Technology and Science, Tirunelveli on 28.04.2022 & 29.04.2022
- The following faculty was presented their paper in the National Conference on Trends in Engineering Applications conducted by Velalar College of Engineering and Technology on 06.05.2022.
- Dr.S.Jabeen Begum, 'Encryption and decryption of grey/medical image analysis using RSA'
  - Dr.S.Jabeen Begum, 'Stock trend prediction with candlestick charting using LSTM algorithm in machine learning'
  - Dr.V.Latha Jothi, 'Dengue Prediction using Machine Learning' .
  - Dr.V.Latha Jothi, 'Alzheimer disease Segmentation and Classification using RCNN'
  - Dr.S.Kayalvili, 'Obtrusion identification using voting based neural networks'
  - Ms.R.Vishalakshi, 'Arrhythmia classification on Electrocardiogram'
  - Ms.M.Thilagarani, 'Effective visualization and forecasting of crime data using data mining'
  - Ms.S.Keerthika, 'Software vulnerability classification using deep and artificial neural networks'

- Ms.M.Thilagarani, 'Detection of facemask and social distancing using SSD object detection algorithm'
- Ms.S.Keerthika, 'Predicting at-risk students in virtual learning environment using support vector machine'
- Mr.A.P.Gopu , 'Predicting the mode of child birth using random forest with label encoding'
- Mr.A.P.Gopu, 'Automated image captioning using generator deep learning'
- Ms.R.Vishalakshi, 'An optimized Blockchain - Topoguard framework for resource management'
- Dr.M.Deepa published a paper "Hospital secured data access management with privacy protection using blockchain technique" in International Research Journal of Modernization in Engineering Technology and Science, 2582-5208, Vol. 04, Issue 05 pp.3939-3943, May-22
- Dr.M.Deepa published a paper "Prediction of chronic kidney disease-a machine learning perspective" in International Journal for Research & Development in Technology, 2349-3585, Vol. 17, Issue 5, pp.6-11, May-22
- M.MohanaSundari published a paper "Improved face recognition using Convolutional Neural Network with unaided learning" in IEEE Xplorer, 978-1-6654-3524-6, IEEE Xplore Part Number: CFP 21 J 8 8 - A R D O I : 10.1109/ICECA52323.2021.9676104, Jan-22
- M.MohanaSundari published a paper "A content based e-learning using classification algorithms" in International Research Journal of Modernization in Engineering Technology and Science, 2582-5208, Vol. 04, Issue 05 pp.2621-2625, May-22
- M.MohanaSundari published a paper "Detection and prevention mechanisms for DDOS attack in cloud computing environment" in International Research Journal of Modernization in Engineering Technology and Science, 2582-5208, Vol. 04, Issue 05 pp.4566-4569, May-22
- K.Vijaya published a paper "Cloud-edge for task deployment and load balancing" in International Research Journal of Modernization in Engineering Technology and Science, 2582-5208, Vol. 4, Issue 5, pp. 4577-4783, 22-May
- K.Vijaya published a paper "Progressed Machine Learning method for deduplication in Cloud Computing" in International Journal of All Research Education and Scientific Methods, 2455-6211, Vol. 10, Issue 5, pp.2712-2715, 22-May
- S.Vivekanandan published a paper "Invulnerable data transfer using interplanetary file system (IPFS)" in International Research Journal of Modernization in Engineering Technology and Science, 2582-5208, Vol. 4, Issue 4, pp. 1-6, 22-Apr
- S.Vivekanandan published a paper "Semantic segmentation of satellite images using deep learning" in International Research Journal of Modernization in Engineering Technology and Science, 2582-5208, Vol. 4, Issue 5, pp. 2134-2138, 22-May
- C.Kotteeswari published a paper "Joint resource allocation for device-to-device communication assisted fog computing" in International Research Journal of Modernization in Engineering Technology and Science, 2582-5208, Vol. 4, Issue 5, pp. 1-7, 22-May
- D.Lavanya published a paper "Overcoming jamming using NOMA" in International Research Journal of Modernization in Engineering Technology and Science, 2582-5208, Vol. 4, Issue 5, pp. 3397-3341, 22-May

#### JOURNAL PUBLICATIONS BY THE FACULTY MEMBERS

- Dr.S.Jabeen Begum published a paper "Evolutionary Algorithm Based Adaptive Load Balancing (EA-ALB) in Cloud Computing Framework" in Intelligent Automation & Soft Computing, Tech Science Press, 2326-005X, doi:10.32604/iasc.2022.025137, Vol.34, No.2, 2022, pp.1281-1294, May-22
- Dr.V.Latha Jothi published a paper "Dengue prediction using machine learning" in International Research Journal of Modernization in Engineering Technology and Science, 2582-5208, Vol. 04, Issue 05 pp.4751-4755, May-22
- Dr.V.Latha Jothi published a paper "Segmentation and Classification of Alzheimer's Using RCNN" in International Journal of Research in Engineering and Science, 2320-9364, Vol. 10, Issue 5, pp.07-10, 2022
- Dr.S.Sadash published a paper "Data access control model with cipher- text authentication" in International Research Journal of Modernization in Engineering Technology and Science, 2582-5208, Vol. 04 Issue 05, pp 321-325, May-22
- Dr.S.Kayalvili published a paper "IoT Based Covid-19 Patient Health Monitoring System Using Wi-Fi" in International Journal of Innovative Research in Science and Engineering, 2454-9665, Vol. 8, Issue 4, pp.118-123, 22-May
- Dr.S.Kayalvili published a paper "Image Detection and Feature Retrieval using CBIR" in International Research Journal of Modernization in Engineering Technology and Science, 2582-5208, Vol. 4, Issue 5, pp. 931-935, 22-May
- Dr.S.Gokulraj published a paper "Towards Block chain for Suitable Efficiency and Data Integrity of IoT Ecosystem Transactions" in International Journal of Recent Advances in Multidisciplinary topics, 2582-7839, Vol. 3, Issue 5, pp.168-170, May-22
- Dr.M.Deepa published a paper "Medical Healthcare System with Hybrid Block based Predictive models for Quality preserving in Medical Images using Machine Learning Techniques" in IEEE Xplorer, 978-1-6654-9515-8, I E E E N o : # 5 4 4 8 8 , D O I : 10.1109/ICACTA54488.2022.9753355, Apr-22
- Dr.M.Deepa published a paper "Analysis of road traffic fatal accidents using data mining techniques" in International Journal for Research & Development in Technology, 2349-3585, Vol. 17, Issue 6, pp.10-16, Jun-22
- Dr.M.Deepa published a paper "Data integrity auditing with private key based online and offline verification for secure cloud storage" in International Research Journal of Modernization in Engineering Technology and Science, 2582-5208, Vol. 04, Issue 05 pp.4147-4150, May-22

- D.Lavanya published a paper “Diagnosing the prostate cancer using deep learning” in International Research Journal of Modernization in Engineering Technology and Science, 2582-5208, Vol. 4, Issue 5, pp. 4570-4576, 22-May
- S.Subathra published a paper “Predicting the faults in industrial metals using support vector machine” in International Research Journal of Modernization in Engineering Technology and Science, 2582-5208, Vol. 4, Issue 4, pp. 2245-2249, 22-Apr
- S.Nithya published a paper “An efficient method to enhance and deblur image using two dimensional discrete wavelet transform” in International Research Journal of Modernization in Engineering Technology and Science, 2582-5208, Vol. 4, Issue 5, pp. 4151-4158, 22-May
- M.Thilagarani published a paper “An automated framework: Ensemble based house price prediction system” in International Research Journal of Modernization in Engineering Technology and Science, 2582-5208, Vol. 4, Issue 5, pp. 4116-4122, 22-May
- M.Thilagarani published a paper “Detection of facemask and social distancing using SSD object detection algorithm” in International Research Journal of Modernization in Engineering Technology and Science, 2582-5208, Vol. 4, Issue 5, pp. 1340-1347, 22-May
- M.Thilagarani published a paper “Effective visualization and forecasting of crime data using data mining” in International Research Journal of Modernization in Engineering Technology and Science, 2582-5208, Vol. 4, Issue 5, pp. 4653-4656, 22-May
- A.P.Gopu published a paper “Predicting the mode of childbirth using random forest with label encoding” in International Journal for Research & Development in Technology, 2349-3585, Vol. 17, Issue 5, pp.46-49, May-22
- R.Vishalakshi published a paper “An optimized block chain-topoguard framework for resource management” in International Research Journal of Modernization in Engineering Technology and Science, 2582-5208, Vol. 4, Issue 5, pp. 2000-2003, 22-May
- R.Vishalakshi published a paper “Arrhythmia classification on electrocardiogram” in International Research Journal of Modernization in Engineering Technology and Science, 2582-5208, Vol. 4, Issue 4, pp. 1966-1970, 22-Apr
- M.Priyavarshini published a paper “A data mining approach for predicting subscription status of twitch users” in International Research Journal of Modernization in Engineering Technology and Science, 2582-5208, Vol. 4, Issue 5, pp. 4683-4687, 22-May
- M.Priyavarshini published a paper “A machine learning based cyber security intrusion detection system” in International Research Journal of Modernization in Engineering Technology and Science, 2582-5208, Vol. 4, Issue 5, pp. 1993-1997, 22-May
- S.Keerthika published a paper “Predicting at-risk students in virtual learning environment using support vector machine” in International Research Journal of Modernization in Engineering Technology and Science, 2582-5208, Vol. 4, Issue 4, pp. 2250-2254, 22-Apr
- S.Keerthika published a paper “Software vulnerability classification using deep and artificial neural networks” in International Research Journal of Modernization in Engineering Technology and Science, 2582-5208, Vol. 4, Issue 5, pp. 1993-1997, 22-May
- S.Keerthika published a paper “Tenant-led ciphertext information flow control for cloud virtual machines” in International Research Journal of Modernization in Engineering Technology and Science, 2582-5208, Vol. 4, Issue 5, pp. 3413-3418, 22-May

## RESEARCH ACTIVITY

### PATENT

- Dr. S. Sadesh Published a Patent on ‘FLEXIBLE ARM 3D PRINTER WITH PARAMETRIC CONTROL USING AI ‘ [Reg.No: 17.03.2022 & 202241014771]

### AWARDS / RECOGNITIONS

- Dr. S.Sadeesh , Executive Committee Member of Velalar College of Engineering and Technology, A PALS Partner Institute accordingly fulfilled the completion criteria for the faculty development program on Leadership and Administration conducted by PALS



- Dr.S.Sadeesh was awarded ‘Certificate of Appreciation’ in recognition of his role as mentor for NPTEL online certification course ‘ Data Analytics with Python’ during Jan –April 2022
- Dr.S.Sadeesh was awarded ‘Certificate of Appreciation’ for his instrumental role as SPOC for the SWAYAM\_NPTEL Local chapter based on performance and participation of candidates for the Jan –Apr 2022 semester
- Dr.S.Kayalvili was awarded ‘Certificate of Appreciation’ in recognition of her role as mentor for NPTEL online certification course ‘ Principles of Management’ during Jan –April 2022

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