



VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous)

Accredited by NAAC with 'A' Grade & Accredited by NBA
Thindal, Erode – 638 012

Newsletter

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MESSAGE FROM THE PRINCIPAL

Seeking for an active academic atmosphere is a healthy and holistic exercise. We have set out on an elevating and simulative journey with the aim of providing our students an exclusive learning practice by teaching them to march ahead with positive attitude, skill, confidence, sympathy and responsibility. This call for the integration of students is the qualitative processes of VCET. It demands an innovation to improve the skills of students in diverse programs to mould them to become notable change-

makers of the society. The aim is to make learning an enriching, fulfilling, and enjoyable one through a multidisciplinary approach like combining theory and practice in pedagogy. The attention should be on not only 'what is taught' but also 'the way it is taught'. Research being an important pillar of academic growth, the main theme has to be on socially relevant, locally need-based, nationally important, and globally significant research initiatives. Creating fertile ground for effective interactions between research and teaching skills, nurturing and developing critical thinking, analysing, designing and problem-solving among students is the command of VCET pedagogue. Hence, our tireless efforts must be to power the intellectual and emotional capabilities of students, encourage the free and lively exchange of ideas to celebrate diversity, while ensuring inclusivity. It should be our collective attempt to promote an inspirational, motivational, value-based academic and an executive environment.

Let us all entreat for the blessings of noble as we march ahead and gear up to executive, economic, societal, and environmental challenges.

DEPARTMENT OF BIOMEDICAL ENGINEERING

Association Activities

Webinar on 'FPGA based digital filter design for biosignal processing' was conducted on 12.04.2022. Dr. J. Prasad, Assistant Professor (Sl. Gr.), Department of ECE, KPR Institute of Engineering and Technology, Coimbatore was the Chief Guest and the Resource Person.

The Project Expo -2022 "Engineering Innovations" was conducted by BME on 07.05.2022. Mr. Nataraja Perumal Vasudevaraju, Global - HRSS, M&A Senior Project Manager, Genpact, Bengaluru graced the occasion. Around 140 students participated and 41 projects were displayed.

A Guest Lecture on 'Research Challenges in Medical Application' was arranged on 13.05.2022. Dr. R. Malathi, Professor, Department of EIE, Annamalai University, Chidambaram was the Chief Guest and the Resource Person.

A Guest Lecture on 'Improve your self-care and personal hygiene' in association with Women Empowerment Cell was organized on 15.06.2022. Dr. V. Sudha Jothi, MBBS, DGO, IOG, Gynecologist, CK Hospital, Erode was the Chief Guest and the resource person.

MoUs SIGNED

Signed a Memorandum of Understanding with M/S Operon Biotech and Healthcare on 27.05.2022.



STUDENTS' PARTICIPATION

C. Kiruthika, R. Sindhu, S. Thavamani, M. Vishva Udhaya presented a paper titled 'Detection of Ovarian Cancer based on Segmentation using MATLAB' in CSIR Sponsored National Conference on Point of Care Technology: The Next Frontier in Personalized Medical and Health Care from 21.04.2022 to 22.04.2022 at Dr. N.G.P. Institute of Technology, Coimbatore.

Abin Santhosh, Amal K Babu, Bejoin Aji Mathew presented a paper titled 'Smart Ear Aid System for Deaf People in Public Area' in CSIR Sponsored National Conference on Point of Care Technology: The Next Frontier in Personalized Medical and Health Care from 21.04.2022 to 22.04.2022 at Dr. N.G.P. Institute of Technology, Coimbatore.

C. Malavika, M. Mohanapriya, S. Preethi presented a paper titled 'Diagnosis and Detection of Skin cancer using Deep Learning' in CSIR Sponsored National Conference on Point of Care Technology: The Next Frontier in Personalized Medical and Health Care from 21.04.2022 to 22.04.2022 at Dr. N.G.P. Institute of Technology, Coimbatore.

INDUSTRIAL VISIT

Third year students underwent an Industrial visit to Aegous Healthcare Pvt. Ltd., Ernakulam, Kerala on 30.04.2022.

DEPARTMENT OF CIVIL ENGINEERING SYMPOSIUM:

Technical Symposium RACES-2K22 was held on 19.04.2022. Mr.M.Vimal Kumar, Deputy General Manager, Human Resources, CorroHealth, Coimbatore graced the occasion and delivered the inaugural address. A total of 60 technical papers were received, from that 21 papers were selected for presentation. Technical events like Paper presentation, Technical Quiz, Code Cracking and CaDD Contest were conducted by our students. At the end Cash Prizes were issued for the innovative theme work.



PROJECT EXPO - 2022 ON ENGINEERING INNOVATION

PROJECT EXPO 2022 was conducted on 07.05.2022. Totally 14 projects have been exhibited by 56 students and top three projects were awarded with cash prizes and 'appreciable' prizes along with certificates were awarded to noteworthy ideas.



VALEDICTORY FUNCTION

The valedictory function of RACE was held on 23.05.2022. Dr.E.Ravi, Prof. & Head, Department of Civil felicitated the gathering and Dr.M.Jayaraman, Principal delivered the valedictory address. Jeevitha R, Final Year Civil Engineering Department presented the annual report for the academic year 2021-22. At the end of the session, prizes were distributed for the student achievers.



Industrial visit

The Third year students underwent an Industrial Visit to the construction projects Jains Tufnell Gardens, Kakkanad, Kerala and Olive Ourania, Edappally, Ernakulam, Cochin, Kerala state on 22.04.2022.



Alumni Expert Interactions:

An Alumni Interaction programme was organised on 23.06.2022 through online mode on the topic 'Latest Trends & Opportunities for Civil Engineers in Future'. The renowned alumni Er.K.Sarathkumar, Managing Director, Sri Velavaa Pavers, Erode, Er.D.Prakashraj, Cad Technician, Systra MVA Consulting, Chennai, Er.K.Kirupakaran, Assistant Engineer – PWD, TN Water Resources Department, Erode, Er.K.Gayathri, System Engineer, TCS Ltd., Chennai and Er.S.Suvetha, System Engineer, Infosys Technologies, Chennai took part in the discussion.



Survey Camp

The survey camp for fourth semester students (2020-2024 Batch) was conducted from 25.05.2022 to 27.05.2022 at VCET Campus, Erode. During the camp, various types of surveying like Triangulation survey, Block Contouring, Radial contouring, Longitudinal and Cross surveying of roads and digital surveying using Advanced Total Station survey and GIS was carried out.



FOSS Training

FOSS Training programme was conducted for second year (2020-2024 Batch) students in QCAD – 2D (Open source application for Computer Aided Drafting). 91% of the students cleared the online test conducted on 17.05.2022 and received the certificates.

For third year students (2019-2023 Batch) training programme on Latex (Open source software) was conducted. 82% of the students cleared the online test conducted on 18.05.2022 and received the certificates.

NPTEL - Students

Eight students from second year successfully completed their course in Groundwater Hydrology and Remote Sensing Principle and Applications.

Fifteen students from third year successfully completed their course in Understanding Incubation and Entrepreneurship, Geographic Information System and Remote Sensing Principle and Applications.

Internship Training

Twenty three students from final year (2018-2022 Batch) completed the internship training for the period of three months in the construction industry viz: M/s Gayathri Builders, Sri Muninathan Builders, M/s Viyan Engineering and Builders, M/s Dheernd Group of Construction, M/s Sunstar Foundation Consultant, M/s YESPEE Builders, M/s Revathi Builders and M/s Sri Muninathan Builders in and around Erode district.

Placement Activities

A total of 23 final year students got placed in reputed companies viz: M/s Ramalingam Construction Company, M/s Infosys Ltd, M/s Aarbee Structures, M/s Milekal Engineering, M/s Focus Edumatics, M/s Sreedevi Infra Developers, M/s Sri Muninathan Builders, and M/s Gayathri Builders.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Association Activities

A seminar on 'Data Engineering Aspects' was organized on 14.05.2022

A Webinar on 'Machine Learning' was conducted by Dr.R.P.Ram Kumar, Prof & Head, KGiSL Institute of Technology, Coimbatore on 02.05.2022.

'Hackathon' project contest was conducted for the students of final year CSE on 17.05.2022

A technical event 'FUN QUIZZICLE' was conducted on 17.05.2022

The Association of CSE MAGNUMOPUS and various CLUBS OF CSE has conducted valedictory function on 26.05.2022



Students Activities :

Students have presented Forty - Two papers under various titles at the National Conference on Trends in Engineering Applications conducted by Velalar College of Engineering and Technology on 06.05.2022.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Association Activities

- 17th National Level Technical symposium was conducted on 26.04.2022.
- 12th International conference about 'Trends in Engineering Applications' was conducted on 06.05.2022.
- An interdepartmental Project Expo was conducted on 07.05.2022.

Students Activities:

- Totally 304 students participated in various events organized in other institutions from April-June 2022 which includes 16 awards in paper presentation, 6 awards in project events and 2 awards in other events.
- 11 Students attended workshops under various topics.
- Totally 163 students participated and presented their papers in National and International conferences.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Association Activities

- Emerflux conducted CSIR Sponsored one day National level Seminar on 'The Challenges and issues of Battery Swapping in Electric Vehicles', on 11.05.2022. Dr.S.Albert Alexander, PDF (USA) Associate Professor, Department of EEE Kongu Engineering College, Dr.R.Senthil Kumar, Assistant Professor,

Department of EEE, Sri Krishna College of Technology were the resource persons for this function. 31 EEE Students attended and benefitted from this program.

Placement Activities

- Five students got placed in Aspire Systems.
- One student got placed in Hexaware Technologies.

DEPARTMENT OF MECHANICAL ENGINEERING

Association Activities :

a. Intra Departmental Activity

Intra-departmental paper presentation was organized on 09.04.2022. Third & second year students have actively participated and showcased their innovative ideas.



b. Hands on Training Programme

As a part of curriculum enrichment, workshop on 'Foundation to CAD using AutoCAD' was organized on 19.04.2022 & 20.04.2022 for the first year students. Mr.R.Hariharasudhavelan and Ms. M. Bhuvaneshwari, CADD Engineers, CADD Centre, Erode gave training on AUTOCAD software to the students.



c. IEI Webinar

A webinar on Finite Element Concepts in Biomedical Applications in IEI – Erode Local centre was organized on 20.04.2022. Dr.S.Shankar, Professor & Chief Coordinator, Research & Development Cell, Kongu Engineering College, Perundurai was the Chief Guest. He prefaced his lecture to mold the students in new technological path on human implants, finite element concepts and biomedical applications.



d. National Level Technical Symposium "MECH ZEAL '22"

A National level Technical Symposium was organized on 26.04.2022. Mr. Sathyamurthy Chinnasamy, Vice President–Operations & Mr.T.Narendran, VP-Finance-Administrations, Aquasub Engineering, Coimbatore graced the occasion as Chief Guests. Students from various institutions actively participated in various events like Paper presentation, Quiz, Aqua Rocketry, CAD Modeling and empower their talents in their respective fields.



e. IEI Webinar

A webinar on "Energy Efficiency in Air Compressors in IEI" was conducted on 28.04.2022. Dr.P.Selvakumar, Associate Professor, Department of Mechanical Engineering, Kongu Engineering College, Perundurai was the Chief Guest. In his lecture, he explained about industrial air compressors and their applications.



f. Workshop

A two day workshop on AutoCAD was conducted on 28.04.2022 & 29.04.2022 for the second year students. Ms.M.Bhuvaneshwari, CADD Engineer, CADD Centre, Erode gave a training and demo on AutoCAD software to the students and explained the role and importance of design software in industries.



Students Activities:

- Second year students P. Navin, and R. Sandhiya, attended a workshop on 'Design Thinking' at CADD Centre Erode on 24.05.2022.
- Third year student S. Dheena Dayaal presented a paper on "Solar Desalination Process" and secured 1st prize at Shree Venkateshwara Hi-Tech Engineering College, Gobichettipalayam, on 28.05.2022.
- Second year students N.Sapnaa and R.Sandhiya presented a paper on "Study on Tribological properties of Aluminium alloys (AA7075) at Nandha College of Technology, 01.06.2022.

- 25 students attended quiz and workshops conducted by various institutions.

DEPARTMENT OF MEDICAL ELECTRONICS

Association Activities :

National Level Technical Symposium "MEDIX 2K22" was Conducted on 19.04.22. The participants from various institutions participated in Paper Presentation, Tech Talk and Minute To Win It events. In paper presentation 14 papers were presented.



A National Conference on "Recent Trends in Engineering Applications" was Conducted on 06.05.22. The participants from various institutions have participated and 24 papers were presented.

Project Expo was conducted on 07.05.2022. Second and third year students participated and exhibited their innovative projects. The prizes were distributed for the best three projects.

Valedictory Function of Students' Association Medieclitex, Med Tech Club, BMESI & SBE Students' Forum was conducted on 26.05.22. Principal Dr.M.Jayaraman and Dean Prof.P.Jayachandar addressed the gathering and distributed certificates to the prize winners of various association activities.



Students Activities

Dhivyalakshmi.T and Kaviya P third year has participated and won the first prize in Paper Presentation organized by Erode Sengunthar Engineering College, Erode on 22.04.2022 and Sengunthar College of Engineering and Technology, Thiruchengode on 30.04.2022.

Kousik.R and Shiva K S of third year has secured the second runner up in Hackatonix 2022 – Future Institute of Engineering and Management, Calcutta on 14.05.2022-15.05.2022. Around 20 students have participated in paper presentation and other technical events organized by various Engineering colleges.

DEPARTMENT OF INFORMATION TECHNOLOGY

Association Activities:

- A Seminar on 'Cloud Computing and Its Applications in AWS' was conducted on 05.04.2022 for the benefit of the third year students.
- 17th National Level Students Technical Symposium was conducted on 19.04.2022 for the benefit of all the students.
- Association Valedictory Function was conducted on 19.05.2022 and certificates were issued for the students who took part in the activities.
- A Seminar on 'Research Techniques and Tools' was conducted on 10.06.2022 for the benefit of the third year students.



Student activities:

NPTEL Online Certification:

- Niwas S of second year has secured Elite grade and 6 students of Second year have successfully completed the NPTEL online certification course 'Ethical Hacking'.
- 16 students of third year have secured Elite grade and 22 students of Third year have successfully completed the NPTEL online certification course 'Data Analytics with Python'.
- Karthickrajan V of second year has successfully completed the NPTEL online certification course 'Blockchain and its Applications'.

Internship :

- Sathyajothi C of third year attended a Internship Training conducted by PALS, for a period of one month
- 10 students of third year attended Internship Training conducted by Weox Technologies, for a period of three month.
- 8 students of final year attended Internship Training conducted by WSDL Hosting Solutions Private Ltd. for a period of one month.

- 4 students of final year attended Internship Training conducted by Livewire for a period of one month.
- Naveen S of final year attended Internship Training conducted by Mind Tree, for a period of 3.5 month.
- Rahul P of final year attended Internship Training conducted by Wipro Technologies, for a period of 3 month.
- Velavan B of final year attended Internship Training conducted by Aalam Info Solutions, for a period of 5 month.
- 3 students of final year attended Internship Training conducted by Cognizant Technology Solutions, for a period of 3.5 month.
- 4 students of final year attended Internship Training conducted by Kanini Software Solutions, for a period of 4 month.
- Harinesha D of final year attended Internship Training conducted by Rajat Agarwal Creators, Uttar Pradesh for a period of 2 month.

Workshops attended:

- Nandhini J, Shashian and T, Sindhu T E of second year attended the workshop 'Web Development' conducted by Kongu Engineering College on 07.04.2022
- Poornisha K of second year attended the workshop 'Application Security and its Risk' conducted by Velalar College of Engineering and Technology from 08.04.2022 to 09.04.2022
- Amritha S of second year attended the workshop 'Application Security' conducted by Karpagam College of Engineering and Technology on 09.04.2022
- 4 students of second year attended the workshop 'Data Science and its Application' conducted by SRM College of Engineering and Technology from 08.04.2022 to 09.04.2022
- 9 students of second year attended the workshop 'Data Visualization using modern computer Analogs' conducted by Velalar College of Engineering and Technology on 26.04.2022
- 34 students of second year attended a Spoken Tutorial Project on 'Advanced CPP' conducted by Velalar College of Engineering and Technology on 04.05.2022.
- Lingeshkanna K of second year attended the workshop 'IoT using Raspberry Pi' conducted by Pantech eLearning on 14.05.2022

Webinar:

- Mugila S P of second year attended Microsoft Certification Program on 'How to get Intership and 75% scholarship' conducted by Microsoft certification on 12.04.2022.
- Anto Jenish E of second year attended an online webinar on 'A Recent advances in Biometrics security with ML' conducted by Government Engineering College, Rajkot on 24.04.2022.
- 10 students of second year attended an online webinar on 'A journey from Linear Algebra to Machine Learning' conducted by Government Engineering College, Rajkot on 01.05.2022.
- 15 students of third year attended spoken tutorial on HTML conducted by Velalar College of Engineering and Technology on 13.05.2022

Quiz:

- Kanishka K of second year attended a Quiz 'Principles of Management' conducted by Matrix Education Foundation on 08.04.2022
- Nandhini D, Pradeepa S of second year attended a Quiz 'Software Engineering' conducted by PPG Institute of Technology on 25.04.2022

Paper Presented:

- Nandhini D of second year presented a paper on 'Home Automation using IoT' conducted by Kongu Engineering College on 06.04.2022
- Naveena R and Supreeta S of second year presented a paper on 'Storage using Cloud Computing' conducted by Kongu Engineering College on 06.04.2022
- 43 students of final year attended and presented papers in an International Conference on Latest Trends in Science, Engineering and Technology conducted by Karpagam college of Engineering and Technology on 20.05.2022 and 21.05.2022

- 12 students of final year presented papers in an International Conference on Contemporary Engineering and Technology 2022 conducted by Shri Venakatestwara Padmavathy Engineering college, Chennai on 21.05.2022 and 22.05.2022

DEPARTMENT OF MANAGEMENT STUDIES

GUEST LECTURE

A guest lecture on "Impact of Goods and Service Tax (GST) in India" was organized on 01.04.2022. CA. K. C. Senthilkumar, Secretary, Institute of Chartered Accountants of India (ICAI), Tiruppur was the resource person.



WORKSHOP

A Workshop on "Yoga for Health of the Human Life" was organized on 13.04.2022. Shri. Yogi Anandaswamy, Yoga Specialist and Trainer, Ananda Marga Pracharaka Samgha, Coimbatore was the resource person.



BLOOD DONATION CAMP:

Organized a Blood Donation Camp along with Yi Yuva Erode on 12.04.2022.



INTRA DEPARTMENT MEET:

Organized an intra department meet on 02.06.2022 for first and second year MBA students. The various events namely, Business Quiz, Business Plan, Ad zap and Best Manager were conducted.



VALEDICTORY FUNCTION:

The association valedictory function was organized on 10.06.2022. The prizes and trophies were distributed to the winners of intra department meet.



DEPARTMENT OF MATHEMATICS

Association Activities

Mathematics Colloquium:

To expose the creativity and subject knowledge, Mathematics Colloquium of Department of Mathematics conducted Poster Making Contest on 'Applications of Vector Calculus in Engineering' for the first year B.E./B.Tech students during the month of May 2022.

Science Club:

Paper presentations on the topics related to Mathematics, Physics, Chemistry, and English were conducted by Science Club PHENMACH in order to improve the students' presentation skills on 21.04.2022 and 22.04.2022.



The Science Club conducted a 'COGNITARE QUIZ' competition for the first-year B.E./B.Tech students on 18.05.2022.



The Science Club organized an invited lecture on 'A Holistic Approach for Career Development' on 24.06.2022 with the objective of guiding the first year students for their career development. Mr.S.Hariharan, Associate Trainee, Kanini Software Solutions, Coimbatore was the speaker.



DEPARTMENT OF ENGLISH

Association Activities

Department of English Conducted a Refresher Course on 'Enhancing English Proficiency through Mass media Utilization' for the first year B.E./B.Tech students on 14.06.2022 to 18.06.2022. Around 82 Students were benefited by this course.

**CLUB ACTIVITIES
WOMEN EMPOWERMENT CELL**

The Women Empowerment cell has organized an awareness programme on 'Improve Your Self Care and Personal Hygiene' on 15.06.2022. Dr.V.SudhaJothi, MBBS., DGO., IOG., Gynecologist, CK Hospital, Erode delivered a special lecture.



**ENTREPRENEURSHIP DEVELOPMENT CELL
WEBINAR**

IIC 4.0 Impact Lecture Series, sponsored by MoE's Innovation Cell was conducted on 18.6.2022, Dr.Parameshwaran, Chief Coordinator TBI & PT, President-IIC(IIC-KEC), Kongu Engineering College, Perundurai was the resource person and delivered the Lecture 1 titled "Innovation-A key Differentiator for Success".



Dr. P. Nandhakumar, Managing Partner, Mayabazar Restaurant, Bubbles Kids and Women, Erode was the resource person for the lecture 2 titled "Entrepreneurship Essentials".

**ROTARACT CLUB ACTIVITIES
SELF DEVELOPMENT PROGRAMME**

Students can learn to identify their needs by being guided through an organised process of self-analysis, reflection, planning, and action. Self-esteem and respect for oneself enable a person to recognise their unique talents and societal aspirations. Students can so acquire new skills, a positive outlook, integrity, humanity, ethics, and emotional maturity. On 08.04.2022, a self-development workshop along with JCI Trainees was held.



BLOOD DONATION CAMP

Rotaract Club in association with the Lions Club of Erode, and the Tamil Nadu Supreme Charitable Blood Bank conducted a Blood Donation Camp on 12.04.2022. Many interested volunteers have given blood and more than 160 units of blood were donated.



DRR OFFICIAL VISIT

The official DRR visited VCET on 14.04. 2022 and verified all the maintained records and documents and provided a positive feedback.

MUPPERUMVIZHA

'Mupperum Vizha' was celebrated in association with Desiya Chinthanai Kazhagam to commemorate the 131st birth anniversary of Dr.B.R.Ambedkar, the 75th anniversary of independence, and the Tamil New Year on 20.04.2022. Guinness record holder Prof.K.M.G.Aathi Pandian was the chief guest.

POEM WRITING CONTEST

Online poem contest in view of 'World Earth Day' was conducted on 22.04.2022. 49 students took part in this contest.

TAMILNADU SNAKE RESCUERS MEET-2022

Diverse rescuers from all around Tamilnadu took part in the meeting of snake rescuers in Tamilnadu. Dr. Sakthivel Vaiyapuri, a snake bite scientist, Dr. Krish Asokan, a wildlife surgeon, and Mr. S. Gowtham, an IFS (District Forest Officer), all expressed their perspectives on how snakes and people can coexist



PAATALI

A worker is a creator and a valuable resource for every country. Nothing prospers without labour. On 01.05.2022, the event 'Paatali' in support of Labor Day was held, and a YouTube video was also made available.



FRAMES

The art of photography. Not everyone can create art. Start concentrating on photography when speaking becomes difficult. A photography competition called 'Frames' was held from 01.05.2022, through 05.05.2022.



A TOKEN OF LOVE

The love of God is truly shown in Mother. On 08.05.2022, 'A Token of Love', a Mother's Day-related event, was held to show gratitude for mothers.



CYBER SECURITY

A seminar on 'Cyber Security' was held on 18.05.2022, in collaboration with JCI Erode Green City. JC Gowtham Krishnamoorthy, founder and CEO of Nutz Technovation pvt.Ltd., led the session.



GIFT OF HEART

A Free Heart Check up and Surgery camp was jointly organized by the Rotaract Club of VCET, the Rotary Club of Erode, and PSG Hospital, Coimbatore on 12.06.2022. 56 heart patients benefited from this programme, and 35 people were recommended for free heart surgery.



FINEARTS CLUB

A group dance competition was organized by the fine arts club from 04.05.2022 to 05.05.2022. 21 groups participated in the contest.



GREEN CLUB

Green club of VCET organized an Awareness Programme about World Water Day on 21-03-2022. Dr. M. Jayaraman, Principal VCET, Dr.M. Eswaramurthi, HoD S&H, Mr.R.Balasubramanian Green Club Coordinator and around 13 Green Club Volunteers participated in this event.



Green club of VCET involved in Mass Cleaning Campaign at Velalar College of Engineering and Technology, Thindal, Erode to commemorate the Birth Anniversary of the former Chief Minister of Tamilnadu Dr. Kalaingar M Karunanithi on 06-06-2022. 15 Volunteers of Green Club along with Green Club Coordinator Mr.R.Balasubramanian were involved in the MASS CLEANING CAMPAIGN.

Green club of VCET conducted a Tree Plantation Programme at Velalar College of Engineering and Technology on 10.06.2022 in connection with World Environment Day. 15 Green Club Volunteers participated in this Programme and Prof. P. Jayachandar, Dean VCET, Dr. M.Eswaramurthi HOD/ S & H, Dr.K.Manikandan Coordinator /Chemistry and Mr.R.Balasubramanian, Green Club coordinator also participated in this programme.

YOUTH RED CROSS

Drawing Competition

Youth Red Cross of Velalar College of Engineering and Technology conducted a Drawing Competition about the Portrayal of Youth Red Cross for our UG Students on the occasion of World Red Cross Day on 01.06.2022 (AN) at our Main Building II floor Conference Hall. 105 UG first year students participated in this competition.



Asthma Awareness Programme

An Asthma Awareness Programme was conducted for our UG first year students in connection with World Asthma Day on 09.06.2022 (AN) at our Main Building II floor Conference Hall. Dr.P.Duraikannan, MD., (Pulmonary Medicine), Consultant Pulmonologist, Sudha Hospitals, Erode, delivered a special lecture on Precautions for Asthma. Prof. P. Jayachandar, Dean, VCET, Dr.M. Eswaramurthi, Prof and Head, Department of Science and Humanities, Controller of Examinations, HoDs, faculty members and 218 students participated in this programme.



Yoga and Meditation Programme

Yoga and Meditation Programme was conducted for first year UG students on 21.06.2022 on the occasion of International Day Of Yoga- 2022 at our II Floor Conference Hall, Acharya Amritaksharananda Avadhut

Swamiji, Chief Yoga Trainer for South India from Ananda Marga Mission, Kolkatta trained the students. In this Yoga training 125 students attended and benefitted.



TOASTMASTERS' CLUB

TMC conducted an interactive event "Think Differently" for the TMC members where people rocked the stage with their ideas and also got an opportunity to communicate with the other members of the club. Furthermore, participants had a chance to work as a team with students from other departments. More than 60 students took part in the event. Top performers were selected and appreciated with certificates.



- Crossword puzzle on Vocabulary was conducted on 22.03.2022 in online mode to tinkle the brains of the students.
- TMC organized the event "Champions 22" on 17.05.2022. It includes events like JAM, SPELL BEE etc., More than 40 students have participated and winners are appreciated with certificates.

CONFERENCE / WORKSHOP / SEMINAR / FDP PROGRAMS ATTENDED BY FACULTY

- Fifty programmes were attended by faculty members in the department of Bio Medical Engineering
- Six programmes were attended by faculty member in the department of Civil Engineering
- Twentysix programmes were attended by faculty members in the department of Computer Science Engineering
- Seven programmes were attended by faculty members in the department of Electronics and Communication Engineering
- Five programmes were attended by faculty members in the department of Electrical and Electronics Engineering
- Four programmes were attended by faculty members in the department of Mechanical Engineering
- Four programmes were attended by faculty members in the department of Medical Electronics
- Nine programmes were attended by faculty members in the department of Information Technology
- Three programmes were attended by faculty members in the department of MBA
- Two programmes were attended by faculty members in the department of Mathematics.
- One programme was attended by faculty member in the department of Physics.
- Five programmes were attended by faculty member in the department of English.

LECTURES / KEY NOTE ADDRESS / PAPERS / NPTEL PRESENTED/ATTENDED BY FACULTY

Department of Bio Medical Engineering

CONFERENCES:

Ms.S.Maheswari presented a paper titled 'Detection of Ovarian Cancer based on Segmentation using MATLAB' in CSIR Sponsored National Conference on Point of Care Technology: The Next Frontier in Personalized Medical and Health Care from 21.04.2022 to 22.04.2022 at Dr.N.G.P. Institute of Technology, Coimbatore.

Ms.S.Maheswari presented a paper titled 'Smart Ear Aid System for Deaf People in Public Area' in CSIR Sponsored National Conference on Point of Care Technology: The Next Frontier in Personalized Medical and Health Care from 21.04.2022 to 22.04.2022 at Dr.N.G.P. Institute of Technology, Coimbatore.

Ms.R.Indhumathi presented a paper titled 'Diagnosis and Detection of Skin cancer using Deep Learning' in CSIR Sponsored National Conference on Point of Care Technology: The Next Frontier in Personalized Medical and Health Care from 21.04.2022 to 22.04.2022 at Dr.N.G.P. Institute of Technology, Coimbatore.

Ms.S.Govindaraj presented a research paper titled 'Recent Advancements in Science, Engineering & Technologies (RASET 2022) organized by Bannari Amman Institute of Technology, Sathyamangalam held from 13.05.2022 to 14.05.2022.

Department of Civil Engineering

CONFERENCES:

Dr.C.Karthik and Mr.S.Sureshpresented a paper on 'Experimental study on partial replacement of cement of fine aggregate using metakaolin and coal bottom ash' in 9th National conference on Emerging Trends in Engineering and Technology conducted by Nandha College of Technology on 12.05.2022.

Ms.A.Anitha and Mr.S.C.Sarath Kumar presented a paper on 'Experimental study on partial replacement of cement with rice husk ash and adding glass fiber' in 9th National conference on Emerging Trends in Engineering and Technology conducted by Nandha College of Technology on 12.05.2022.

Dr.D.Sakthivel and Mr.S.Ramesh Kumar presented a paper on 'A Study on Properties of High Strength Concrete Using Mineral Admixtures and Copper Slag' in National conference on Emerging Trends in Engineering Design and Manufacturing conducted by Hindustan Institute of Technology, Coimbatore on 15.06.2022.

Mr.S.Ramesh Kumar and Dr.D.Sakthivel presented a paper on 'Effect of polymer cement modifiers on properties of polymer-modified mortar using recycled waste concrete fine aggregate' in National conference on Emerging Trends in Engineering Design and Manufacturing conducted by Hindustan Institute of Technology, Coimbatore on 15.06.2022.

Mr.C.Pranesh presented a paper on 'An Experimental study on replacement of River sand by Manufacturer Sand' and 'Experimental Study of Foundry Sand and Metakaolin in Cement Concrete' in Recent Advances in Sustainable Construction Technologies and Environment, (ICRASCE-2022) conducted by B.S.AbdurRahman Crescent Institute of Science and Technology on 15.06.2022 and 16.06.2022.

Department of Computer Science and Engineering

Lecture / Key note Address Delivered

- Dr. S. Kayalvili has acted as a resource person for the workshop on 'Program Outcome (PO) Attainment', organized by Velalar College for Women on 29.04.2022.
- Dr. S. Kayalvili has acted as a resource person for 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.

Papers 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 members 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'
- Mr.G.Boopathi Raja, 'IoT based Automated Horticulture System for farmers'
- Mr.S.Nachimuthu, 'Smart Agriculture using Drive Mechanism'
- Ms.V.Sakthi Priya, 'Smart V Farm'
- Mr.B.Dineshkumar, 'Monitoring of Leakage Current and Detection of Faults in Power transmission Insulators using IoT'

Mr.S.Pooranachandran presented a paper 'A design of noise and emission control silencer (Aqua silencer) using IOT' in the 'National Conference on Recent Advancements in Science, Engineering & Technology' conducted by Bannari Amman Institute of Technology, Sathyamangalam on 13.05.2022 & 14.05.2022.

Ms.M.Ruba and Ms.C.Santhini presented a paper 'Smart Internet of Things based life saving helmet system for bike riding' in the 'International Virtual Conference on Advances in Digital Transformation, Software Technologies and intelligent IoT systems (ICADSIS)' conducted by Bannari Amman Institute of Technology, Erode on 20.05.2022 & 21.05.2022 and 'Design and Implementation of Smart Ambulance with Traffic Control system' in the 'Emerging Trends in Science Technology and Applications (ICETSTA-2022)' conducted by Sree Sakthi Engineering College on 27.05.2022 & 28.05.2022.

Department of Electronics and Communication Engineering

Lecture / Key note Address Delivered

Dr.S.Mahendra Kumar, Dr.S.Rajan and Ms.T.Sathya acted as session chair person for 17th ECE National level technical symposium conducted by VCET on 26.04.2022.

Dr.S.Rajan acted as Session chair person for Project Expo 2022 conducted by VCET on 07.05.2022.

Conference Presented

The following faculty members presented their papers in the '12th National Conference on Trends in Engineering Applications' conducted by Velalar College of Engineering and Technology, Erode on 06.05.2022.

- Dr.M.Nisha Angeline, 'Impact of Vedic Multiplier for the Implementation of Embedded-DNN' and 'Control and Measurement of Air Pollution in Metropolitan Areas'
- Dr.K.R.Valluvan, 'Measurement of Harmonics with Adaline using Half-Cycle Data'
- Dr.K.Senthil Prakash, 'Innovative rice grain quality grading method'
- Dr.S.Mahendrakumar, 'Temperature Monitoring and Automatic Door Opening System Using Arduino Uno'
- Dr.S.Rajan, 'Illumination with Camera Security and Fault Detection'
- Dr.V.Gowrishankar, 'Smart Real time Health Monitoring System using Edge Computing'
- Dr.V.Gowrishankar, 'Google Assistant controlled Home Automation'
- Dr.M.Parimala Devi, 'Neural Network Segmentation in MRI Images for brain tumor segmentation'
- Mr.P.Senthil Kumar, 'Detecting Covid-19 Symptoms using X-Ray image with deep Learning algorithm'
- Ms.T.Sathya, 'Easy Clinic Smart Sensing Application in Healthcare'
- Mr.S.Nachimuthu, 'Medical Waste Management'
- Ms.P.Nandhini, 'Smart Vision for Visually Challenged'
- Mr.K.K.Pradeep, 'Portable DC Induction Stove Using Solar Energy'

The following faculty members presented their papers in the 'National Conference on Emerging Trends in Engineering and Technology' conducted by Nandha College of Engineering, Erode on 12.05.2022.

- Dr.M.Nisha Angeline, 'Adaptive Congestion Window Management Mechanism for Highly Robust Vehicular Communication Environment'
- Mr.M.Vijayan, 'Analysis of Milk Quality using IoT'
- Mr.P.Senthil Kumar, 'Human Life Safety System with Electrical information using IoT'
- Mr.S.Pooranachandran, 'Solar Locomotive of EV Charging Station'
- Mr.N.Karthikeyan, 'Finger print authentication and theft detection in ATM using ATMAG328P-PU'
- Mr.K.K.Pradeep, 'Portable DC Induction Stove Using Solar Energy'
- Ms.S.Aiswarya, 'Vehicle Black Box System using IoT' and 'Smart Mask for Health Monitoring'
- Mr.B.Dineshkumar, 'Safety Enhanced Location Tracking Device for Logistics Container using Raspberry Pi'

The following faculty members presented their papers in the 'International Virtual Conference on Innovative Research in Power and Energy Engineering 2.0' conducted by Arasu Engineering College, Kumbakonam on 18.05.2022.

- Dr.S.Mahendrakumar, 'Fruit Diseases and Freshness Identification by Image Processing Method using Raspberry Pi'
- Dr.S.Rajan, 'Atmospheric monitoring and fire prevention system for mining workers'
- Mr.K.S.Murugesan, 'Design and Implementation of Women Surveillance System' and 'Fabric Defect Detection using Deep Learning'

Department of Electrical and Electronics Engineering

Dr.P.Sakthivel, delivered a keynote address and session chair to IEEE sponsored Second International Conference on 'Advances in Electrical, Computing, Communications and Sustainable Technologies' (ICAECT2022) held at the Department of Electrical and Electronics Engineering, Shri Sankaracharya Group of Institutions, Bhilai, Chhattisgarh, India during 21-22, April 2022.

Department of Medical Electronics

Conference:

Mrs.Vanitha.K, presented a paper titled "Real time tomato leaf disease classification using optimized pretrained CNN model based on transfer learning in deep learning and prevention strategies" in International conference on contemporary Engineering and Technology 2022 organized by Prince Shri Venkateshwara Padmavathy Engineering college on 22.5.2022.

Ms. Abitha.S.B, presented a paper on 'A m-Health based mobility aid for visually challenged persons' on 08.06.2022 in INSA sponsored National Conference on Technological Innovations of Artificial Intelligence in healthcare at Dr.N.G.P. Institute of Technology, Coimbatore.

Ms. Abitha.S.B, presented a paper on 'Smart Wearables for Helping Visually Impaired People' on 21.06.2022 in CSIR sponsored national conference Point-of-Care Technology: The Next Frontier in Personalized Medicine and Health Care at Dr.N.G.P. Institute of Technology, Coimbatore.

Department of Information Technology

Conference:

- Dr. S. Rajalakshmi, presented a paper on 'Liver Disease Prediction using Logistic Regression', IEEE International Conference on Smart Structures and Systems, conducted by Saveetha Engineering College

NPTEL Online Certification:

- Mr. K. Gopalakrishnan completed the NPTEL online certification course 'Introduction to Machine learning' and secured the Elite grade.

Department of MBA

Lecture / Key note Address Delivered:

Dr.D.Muthukrishnaveni acted as a resource person and delivered a lecture on the topic, 'Art of Decision Making as an Entrepreneur' organized by Institutions Innovation Council, Rathinam Technical Campus, Coimbatore on 05.04.2022.

Conference Presented:

Dr.T.Vetrivel and Dr.S.Kumar presented a paper on the title "A study on Factors influencing in Marketing" in the International Virtual Conference organized by School of Commerce, VET Institute of Arts and Science (Coeducation) College, Thindal from 20.04.2022 to 21.04.2022.

Dr.D.Muthukrishnaveni presented a paper on the title "A Conceptual Study on Consumer Attitude and Satisfaction towards Digital Marketing in India" in the International Virtual Conference organized by School of Commerce, VET Institute of Arts and Science (Coeducation) College, Thindal from 20.04.2022 to 21.04.2022.

Department of Chemistry Conference

Dr.K.Manikandan, presented a paper titled 'Facile Synthesis and characterization of W-doped TiO₂ Nanoparticles and their cytotoxicity and anticancer activity study' in a National Conference on Innovation in Chemical Sciences & its Research Approach organized by PG Department of Chemistry & Department of Chemistry, Vellalar College for Women(autonomous), Erode on 08.04.2022.

Dr.K.Manikandan, presented a paper entitled "Synthesis of pure and co-doped TiO₂ nanoparticles by sol-gel method and their morphological and antibacterial activities" on 12th May 2022 in the National conference on Emerging Trends in Engineering and Technology, organized by Department of Chemistry, Nandha College of Technology, Erode.

Ms.M.Priya, presented a paper entitled "Comparative Investigation of Thermodynamic Behavior of Crab Shell Extract on Mild Steel in Varied Acidic Concentration" in the "7th International Conference on Innovations in Chemical and Environmental Research [ICICER-2022]" organized by PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli-620020, Tamilnadu, India, on 25th May 2022

Ms. M. Gowri, presented a paper titled 'Synthesis and characterization of pure and co-doped TiO₂ Nanoparticles and its assessment to antimicrobial activity' in a National conference on Innovation in chemical sciences & its Research approach organized by PG department of chemistry & Department of Chemistry, Vellalar College for Women(autonomous), Erode on 08.04.2022.

Ms. D.Umamaheswari, Mr. R.Balasubramanian, presented a paper titled 'A Novel Approach to Synthesis and Morphology Study of Nano TiO₂ Dioxide For Photocatalytic Applications Under UV Light' in a National conference on Innovation in chemical sciences & its Research approach organized by PG department of chemistry & Department of Chemistry, Vellalar College for Women (autonomous), Erode on 08.04.2022.

M. Gowri, presented a paper titled 'Synthesis of Pure And Co-Doped TiO₂ Nanoparticles by Sol-gel method and their morphological and antibacterial activities' in a National Conference on Emerging Trends in Engineering and Technology organized by Nandha College of Technology, Erode on 12.05.2022.

Mr. R. Balasubramanian, presented a paper entitled "Synthesis of Pure and Co Doped TiO₂ Nanoparticles by sol-gel method and their morphological and Anti-bacterial activities" on 12th May 2022 in the National conference on Emerging Trends in Engineering and Technology, organized by Department of Chemistry, Nandha College of Technology, Erode.

JOURNAL PUBLICATIONS BY THE FACULTY MEMBERS

Department of Bio Medical Engineering

Ms.S.Sudha, 'A Study on Statistical Analysis of Risk Factors in the Assessment of Cardiovascular Events in Indian Population', ECS Transactions, Volume 107, No. 1, April 2022.

Dr.M.Ponnibala, 'An Early Prediction of Tumor in Heart by Cardiac Masses Classification in Echocardiogram Images using Robust Back Propagation Neural Network Classifier, Brazilian Archives of Biology and Technology, Volume 65, ISSN 1678-4324, April 2022.

Department of Electronics and Communication Engineering

Dr.M.Parimala Devi, 'Implementation and performance evaluation of ferroelectric negative capacitance FET', Silicon, 1876990X, 18769918, Vol14, Issue 5, pp 2409-2419, April 2022.

Ms.M.Shivaranjani, 'An improved retransmission timeout prediction algorithm for enhancing data transmission on internet of vehicles network', Wireless Networks, ISSN: 1572-8196, Vol28, pp2421-2436, April 2022.

Department of Mechanical Engineering

G.Raja, 'Surface engineering of chromium films for augmenting bird striking performance of jet engine blades, Materials Testing, vol.64, no.1, pp. 884-892, June 2022.

Department of Medical Electronics

Ms. Abitha.S.B, 'A Study on Statistical Analysis of Risk Factors in the Assessment of Cardiovascular Events in Indian Population', ECS Transactions, ISSN 1938-6737, Volume 107, April 2022.

Mr. Surender S, 'Gesture Controlled Assisting Chair with Fire Extinguishing System for Paraplegics', International Journal of Innovative Research in Science, Engineering and Technology, ISSN 5170-5177, Vol 11, Issue 5, May 2022.

BOOK PUBLICATIONS

Department of Electronics and Communication Engineering

Ms.P.Nandhini and Ms.S.Aiswarya, 'Research Trends in Multidisciplinary Research' in the title of AI-Powered Precision Medicine in Tele-Healthcare Systems, ISBN No. : 978-93-5570-198-5, May 2022.

RESEARCH ACTIVITIES

Patents:

Department of Civil Engineering

Dr.E.Ravipublished a Patent on 'E-Waste management system by using internet of things and collection vendor machine' on 13.05.2022 (Patent application no: 202241026788A)

Dr.C.Karthik and Mr.S.C.SarathKumar published a Patent on 'The effect of glass textile on the shear behavior of glass fiber reinforced polymer- reinforced concrete beams' on 27.05.2022 (Patent Application no: 202241028351A)

Department of Computer Science and Engineering

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

Department of Medical Electronics

Mrs.Vanitha.K published a Patent titled "Retinal Scan and Speech enabled safety locker system for the important files and data to prevent from robbery" Application Number: 202241013978 A Filing Date: 15/03/2022 Publication Date: 08/04/2022.

Department of English

MS.B.S.GOMATHI received a patent on 'The Effects of E-training on Virtual teams in improving Employee Performance' during Covid-19 Pandemic.

AWARDS / RECOGNITIONS:

Department of Computer Science and Engineering

• Dr. S.Sadeesh, Executive Committee Member for PALS Partner Institute 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

Department of Mechanical Engineering

• T.C.R. Dinesh, successfully performed the duties as an PALS-Innowah Coordinator, Vellalar College of Engineering and Technology, Erode for the academic year 2021-22.

VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous)

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