



Velalar College of Engineering and Technology

Autonomous

Thindal, Erode - 638 102

Department of Civil Engineering

ABOUT THE DEPARTMENT

The Department of Civil Engineering was established in the academic year 2012-2013. It offers UG degree in Civil Engineering. Since inception, the department provides an encouraging environment and imparts the latest advancements in knowledge and skills through innovative methods of teaching. The Department has qualified faculty members with well-equipped laboratories – Strength of Materials Lab, Fluid Mechanics Lab, Survey lab, Concrete and Highway Lab, Soil Mechanics Lab, Environmental engineering Lab and Computer Aided Design Lab.

Department Vision

To produce professionals with intellectual experience through state of art techniques in the field of Civil engineering to meet national and global needs and serve them ethically in the society.

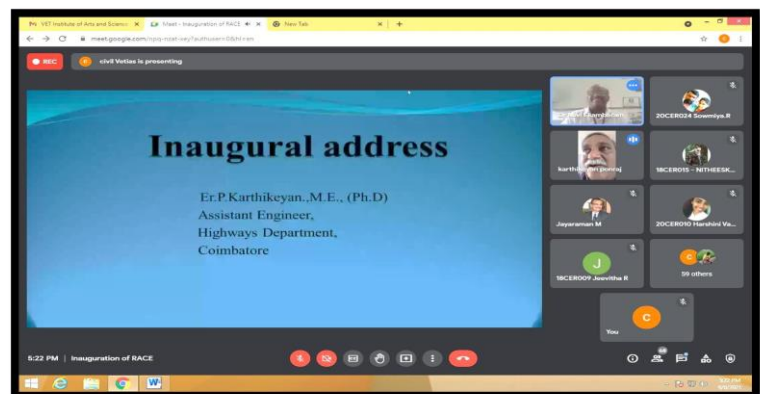
Department Mission:

- To inculcate knowledge through effective teaching-learning process, laboratory experiments, field training, consultancy and research activities.
- To promote innovative good technocrats with creative thinking of young engineers and to become a talented scientists and Entrepreneurs.
- To develop professional in engineering field with strong ethical values, leadership abilities, entrepreneurship skills and commitment to lifelong learning.

PROGRAMS ORGANIZED

1. RACE – Inauguration

The Renowned Association of Civil Engineers, RACE was inaugurated through online mode on 08.09.2021. Er.P.Karthikeyan., Assistant Engineer, Highways Department, Coimbatore was the chief guest and also delivered a special lecture on ‘Carrier opportunities of Civil Engineers in Government Sector’.



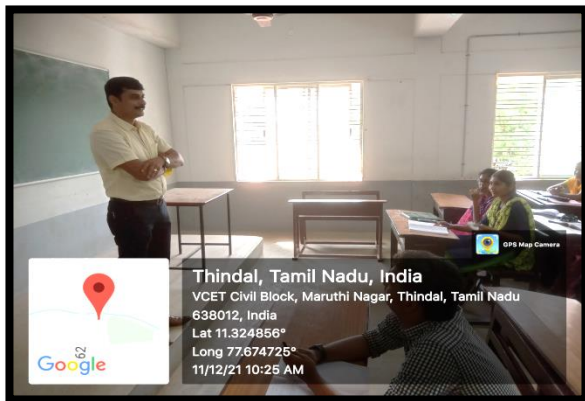
2. Intra Department meet



An Intra department meet was organized by Students association ‘RACE’ on 19.11.2021. All the students enthusiastically participated in the events like Paper presentation, Technical Quiz and CaDD contest and awarded prize for the winners. More than 60 student’s participants were actively participated

3. Expert Talk

A special session was arranged for the second year students on 11.12.2021 by an industrialist Dr.M.J.Gopinathan, Managing Director, J.P.G.Housings and Projects (P) Ltd, Tiruppur was the speaker and deliver the scope and requirement of civil industry in the present word. More the thirty five students were get benefited.

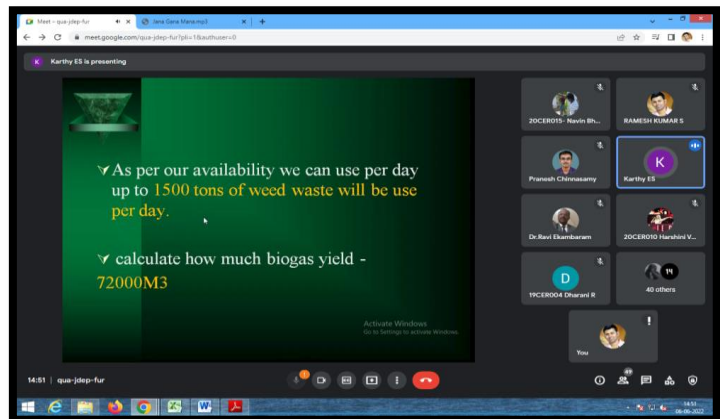


4. RACES SYMPOSIUM

Our College had been conducted Students Technical Symposium RACES-2K22 on 19.04.2022. Mr.M.Vimal Kumar, Deputy General Manager, Human Resources, CorroHealth, Coimbatore gave the Inaugural address for the function. Students from various intuitions in and around Erode had participated in this Event. A total of 60 Technical Papers were received, from that 21 Papers were called 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.

5. GUEST LECTURE

A guest lecture on the topic 'Approval Process – Local Planning Authority' was conducted on 19.03.2022. Er. R.Udayasankar, Managing Director, M/s BTR Construction, Erode was the chief guest and shared his experience and the process involved in the approval process. Along with that an MOU was signed between VCET and M/s BTR Construction to support student's internship/training activities.



6. ALUMINI EXPERT INTERACTIONS

An Alumini Interaction programme was organised on 23.06.2022 through online mode on the below topics 'Latest Trends & Opportunities for civil engineers in future' The aluminis were 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.

7. VALEDICTORY FUNCTION

The valedictory function of RACE had held on 23.05.2022. Dr.E.Ravi Prof & Head gave the felicitation address and Dr.M.Jayaraman, principal, has 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.

VELALAR
College of Engineering and Technology
(Autonomous)
Thindal, Erode - 12
(Accredited by NAAC with 'A' Grade)
Department of Civil Engineering
Alumni Expert Interactions:
"Latest Trends & Opportunities for Civil Engineers in Future"

Er. K. Sarathkumar
(Batch 2012-16)
Managing Director
Sri Velavaa Pavers,
Erode.

Er. D. Prakashraj
(Batch 2013-17)
Cad Technician
Systra MVA Consulting (I)
Pvt Ltd, Chennai.

Er. K. Kirupakaran
(Batch 2014-18)
Assistant Engineer
Tamilnadu Water
Resources Department,
Erode.

Er. K. Gayathri
(Batch 2016-20)
System Engineer
TCS Ltd, Chennai.

Er. S. Suvetha
(Batch 2018-22)
System Engineer
Infosys Technologies Ltd, Chennai.

Meeting Link: <https://meet.google.com/nvr-ssjj-anw>
Date: 23.06.2022 Time: 6.30 pm - 7.30 pm



8. 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 among which First three cash prizes and all 'appreciable' prizes along with certificates were awarded to noteworthy effects.



9. 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). 82% of the students cleared the online test conducted on 18.05.2022 and received the certificates.

10. INTERNSHIP TRAINING

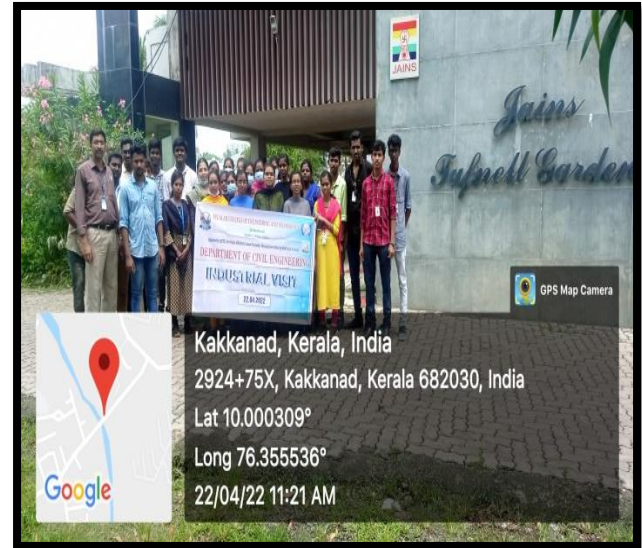
Twenty three students from final year (2018-2022 Batch) were completed the internship training for the period of three months in the construction industry viz: M/s Gayathri Builders, Sri Muninathan Builders, M/s Viyan Engineering and Builders, M/s Dheer nd group of Construction, M/s Sunstar Foundation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

10. TECHNICAL VISIT:

- A technical visit was arranged for 2nd year students to proposed construction of Pre- Engineered R.C.C residential building, lakshmi nagar, thindal, erode on 08.09.2021.

A technical visit was arranged for 2nd year and 3rd year students to proposed construction of additional block at M/s VET Institute of Arts and Science, Erode on 03.12.2021 and 05.03.2022.

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



STUDENTS ACTIVITIES:

1. In Plant Training

Thirty four students from third year (Batch: 2018-2022) were completed the in-plant training for the period of fourteen days in the construction industry viz: M/s Gayathri Builder, M/s Sri Muninathan Builders, M/s Dinesh&Co Builders, M/s Vetrivel Constructions, M/s Viyan Engineer and Builders, M/s Sree Lakshmi Construction, M/s Dhanabakkiyam Construction, M/s New Surya Engineers, M/s Srina Constructions, M/s JEYAM Construction and Promoter, M/s Sunstar Foundation Consultant(Engineering Consultant and Contractor), M/s 2mm Construction, M/s D.V.Associates (Civil Engineers and Contractors), M/s Giri Aravind Associates and M/s AGK Constructions in Erode and Tiruppur.



2. Students NPTEL

- Eight students of third year (Batch: 2018-2022) were successfully completed the NPTEL Course on ‘Forest and their management’ with Elite + Gold certificate during Jan – April 2021.
- Eight students from second year were completed their course in Groundwater hydrology and Remote Sensing Principle and applications.
- Fifteen students from third year were completed their course in Understanding incubation and entrepreneurship, Geographic information system and Remote Sensing Principle and applications.

3. Technical Training

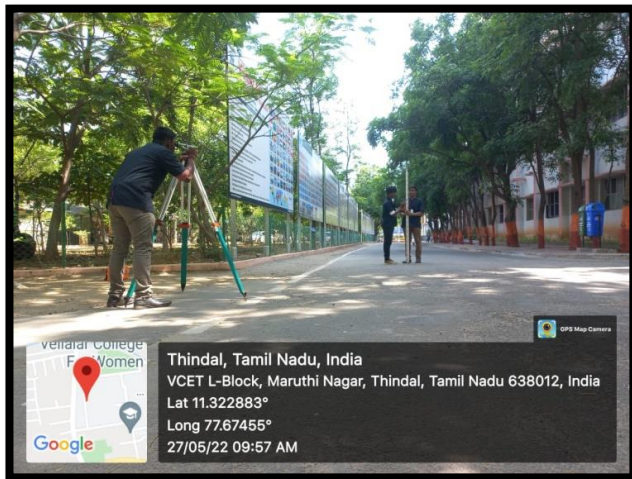
A five day technical training session was conducted for final year placement eligible students to enrich their knowledge to face the upcoming campus and off campus interview sessions successfully. The training session was held on 06th to 07th December and 13th to 15th December 2021. Twenty four students were get benefited. The sessions were handled by Dr.M.Jayaraman, Principal, VCET Dr.E.Ravi, HoD/Civil, Mr.C.Karthick, Mr.D.Sakthivel, Mr.S.C Sarath Kumar, Ms.A.Anitha, Mr.C.Pranesh and Mr.S.Ramesh Kuamr on various topics.

4. SURVEY CAMP

The survey camp for fourth semester students (2020-2024 Batch) was conducted during 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.



PLACEMENT ACTIVITIES

A total of 23 final 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.

FACULTY ACTIVITIES

1. Conference /Workshop / Seminar / FDP Programs Attended by Faculty

- **Ms.D.Dharani** had participated in a four days FDP on 'Virtual Labs' held virtually from 06.09.2021 to 09.09.2021 as part of the 'PALS-VLABS 2021-22 INITIATIVE with NITK Surathkal'
- **Dr.E.Ravi**, Ms.A.Anitha and Ms.D.Dharani had participated and successfully completed the 05-day online FDP on the theme 'Inculcating Universal Human Values in Technical Education' organised by All India Council for Technical Education (AICTE) from 04.10.2021 to 09.10.2021
- **Mr.C.Karthik** and Mr.S.C.Sarath Kumar had participated and successfully completed the 05-day online FDP on the theme 'Inculcating Universal Human Values in Technical Education' organised by All India Council for Technical Education (AICTE) from 25.10.2021 to 29.10.2021
- **Mr.D.Sakthivel** and Mr.S.Ramesh Kumar had attended AICTE-ISTE sponsored one-week Virtual Induction / Refresher Programme on 'Pedagogy and Assessment through Digital Learning Platform (PA-DLP'21)' during 07.12.2021 to 13.12.2021
- **Mr.C.Pranesh** Completed attended the Faculty student Development programme on INDUSTRIAL SAFETY (Industrial Hazards and Risk, Risk Management principles, Industrial practices, Case studies from industry, Industrial regulations and career prospects), held virtually on 22.11.2021 and 23.11.2021 organised by PALS
- **Mr.S.C.Sarath Kumar** has successfully completed the online course on 'Advances in the Design of Steel Structures – ADSS-22', organized by CSIR-Structural Engineering Research Centre, Chennai on 07.03.2022 to 09.03.2022
- **Mr.C.Pranesh** has successfully completed the AICTE-ISTE approved Orientation/Refresher programme on 'Challenges and Opportunities in Hybrid Electrical Vehicles' held during 03.02.2022 to 08.01.2022 organized by Thigarajar Polytechnic College, Salem and also faculty development and students interaction program in 'Recent Advances in Renewable Energy technologies for the sustainable development' from 04.04.2022 to 08.04.2022 organized by College of Engineering Roorkee.

2. NPTEL Course

- **Mr.C.Pranesh** successfully completed the course 'NBA Accreditation and Teaching-Learning in Engineering with Topper +silver certificate during Jan – April 2021.
- **Ms.D.Dharani** successfully completed the course 'NBA Accreditation and Teaching-Learning in Engineering with Elite certificate during Jan – April 2021.

3. Lectures / Key note Address/Conference Presented by Faculty

- **Dr.C.Karthik** and Mr.S.Suresh presented 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 Cement Concrete’ in Recent Advances in Sustainable Construction Technologies and Environment, (ICRASCE-2022) conducted by B.S Abdur Rahman Crescent Institute of Science and Technology on 15.06.2022 and 16.05.2022.
- **Dr.E.Ravi** act as resource person in a expert lecture on ‘Foundation Engineering’ conducted by Dhanalakshmi Srinivasan College of Engineering, Coimbatore on 11.01.2022.
- **Dr.E.Ravi** act as one of the resource person in a Special Structural Debate on ‘Safe conventional Technics in Practice Vs. Challenging Non-conventional technics in practice’, conducted by Structural Engineering Association, Tamil Nadu on 16.01.2022.
- **Dr.D.Sakthivel** and Mr.S.Ramesh Kumar presented a paper titled ‘Experimental investigation in making low cost concrete from paper industry waste’ in the International Conference on Emerging research trends in Structural Engineering at Vellore Institute of Technology on 24.03.2022
- **Mr.S.Ramesh Kumar** and Dr.D.Sakthivel presented a paper titled ‘A study on Partial replacement of Lime sludge for sand in concrete’ in the International Conference on Emerging research trends in Structural Engineering at Vellore Institute of Technology on 24.03.2022.

4. Journal / Patent Publications by the faculty members:

Mr.S.C.Sarath Kumar, Dr.C.Karthik, Ms.A.Anitha and Mr.S.Suresh ‘Experimental investigation on concrete with partial replacement of fine aggregate by date and tamarind seed’, International Journal of Advance Research, Ideas and Innovations in Technology ISSN No. 2454-132X, Vol. 8 Issue 1 Pg.No 45-52. January 2022.

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

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: 202241028351 A)

5. P.hD Awarded:

- **Mr.D.Sakthivel**, Assistant Professor, Civil Engineering has completed Doctoral Degree from Anna University, Chennai during January 2022. His area of interest is environmental engineering, ground water analysis and GIS modeling. He has published many papers in national and international journals and presented papers in various conferences
- **Mr.C.Karthik**, Assistant Professor, Civil Engineering has completed Doctoral Degree from Anna University, Chennai during February 2022. His area of interest is thin-walled structures, composite structures and cold-formed steel structures. He has published many papers in national and international journals and presented papers in various conferences.

