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**Dr. Rani V**  
Head of Civil Engineering Department

### **INSTITUTE VISION**

To be an institution offering quality technical education and promoting research with strong ethical values for public good.

### **INSTITUTE MISSION**

To mould the young men and women into technologically up to date, socially conscious and morally sound individuals by providing an inspiring environment of learning for the welfare of the society.

### **DEPARTMENT VISION**

To be a globally recognized Centre for civil engineering studies, to mould competent, research oriented and socially responsible professionals.

### **DEPARTMENT MISSION**

To provide quality technical education in civil engineering for a successful career.

To equip the students with advanced skills and knowledge to take up challenges in all areas of civil engineering.

To create professionals with strong ethical values to provide service for the public and society.

### **MESSAGE FROM HODs DESK:**

It is with great joy that the 2024-2025 edition of the department newsletter is being presented. The students have participated in cultural and technical events outside and won prizes. Many events have been organized in the college for career guidance, workshop for mix design, expert talks, several MOUs were signed with industry and IET, Civil Engineering Association, and ASCE Foundation year activities were inaugurated.



## PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

**PEO 1:** Graduates will be able to establish engineering abilities, design capabilities and life-long learning for a successful civil engineering career.

**PEO2:** Graduates will be able to establish the knowledge and skills necessary for identifying and assessing design

Alternative to deal effectively with the social, economic, environmental and public safety problems.

**PEO 3:** Graduates will be able to obtain professional licensure and develop entrepreneurship skills to work in multi- disciplinary environment.

## PROGRAM SPECIFIC OUTCOMES (PSOs)

**Global Competence** –Apply technical and managerial skills necessary to enter career in planning, design, construction, operation or maintenance of the global infrastructure.

**Research and development-** Update about the latest research and development in construction technology advances in construction materials and analysis or design procedures.

**Disaster Management-**Acquires theoretical background about post disaster conditions such as rescue operations, damage assessment and retrofitting of structures.

## FACULTY DEVELOPMENT PROGRAMMES ATTENDED

No: of Faculty	Name of Faculty	Name of Program	Organised by
1	Dr. S. NARAYANAN	Engineering Entrepreneurship and IPR	Marian Engineering College ,Trivandrum
2	Dr. RANI V.	Recent advances in transportation geotechnics (ReTraG'24)	College of Engineering ,Trivandrum
		Engineering Solutions for a sustainable world	Marian Engineering College ,Trivandrum
		Workshop on spatial prediction of soil parameters using geospatial AI/ML	Marian Engineering College ,Trivandrum
		Interactive session Vidya to Vijnanam	ABRSM,Sreemoolam club ,Vazhuthacaud
		SAF24	LBS Institute of Technology for women
		one day workshop on Binary Accreditation of NAAC	Marian Arts and science College
		ISTE FDP	Marian Engineering College ,Trivandrum
3	RESHMY D.S.	Creating Conducive and Engaging Classroom Environment for Learning and Teaching	CVR College of Engineering, Telangana



4	GREESHMA T.	Advances in Ground Improvement Techniques	LBS Institute of Technology For Women
		Creating Conducive and Engaging Classroom Environment for Learning and Teaching	CVR College of Engineering, Telangana
		Leveraging AI Tools for teaching and Learning	ISTE, Marian Engineering College
5	TARA LEANDER	Creating Conducive and Engaging Classroom Environment for Learning and Teaching	CVR College of Engineering, Telangana
		Leveraging AI Tools for teaching and Learning	ISTE, Marian Engineering College
6	RENJU C.M.	“Coastal Engineering:Comprehensive Insights for Onsite Solutions”	Dr.D.Y. Patil Institute of Technology Pimpri, Pune
		“Indian Knowledge System in Higher Education”	Progrezz Academy (Training and Research Institute
		“Latex Made Easy for Articles & Reports”	Progrezz Academy (Training and Research Institute
7	ABHIJITH R.P.	“Coastal Engineering:Comprehensive Insights for Onsite Solutions”	Dr.D.Y. Patil Institute of Technology Pimpri, Pune
		“Indian Knowledge System in Higher Education”	Progrezz Academy (Training and Research Institute
		“Latex Made Easy for Articles & Reports”	Progrezz Academy (Training and Research Institute
8	ASHA DAVOOD Z.	Advances in Ground improvement techniques	LBSITW
		Engineering Entrepreneurship and IPR	ISTE, Marian Engineering College
		Creating Conducive and Engaging Classroom Environment for Learning and Teaching	CVR College of Engineering, Telangana
		Leveraging AI Tools for teaching and Learning	ISTE, Marian Engineering College
9	SANOBIYA B.S.	Faculty Induction Programme organized by ISTE chapter	Marian Engineering College ,Trivandrum
		3 day FDP, ISTE chapter	Marian Engineering College ,Trivandrum
		Delegate, ISTE Convention	Marian Engineering College ,Trivandrum
		"Recent Innovations & Upcoming Trends in Research for Civil Engineering"	Sandip Institute of Engineering and Management, Nashik
		Creating Conducive and Engaging Classroom Environment for Learning and Teaching	CVR College of Engineering, Telangana
10	ASWATHY SASIKUMAR	Creating Conducive and Engaging Classroom Environment for Learning and Teaching	CVR College of Engineering, Telangana
11	DEEPTHI DENNISON	Online FDP on "Building Sustainable Futures : Expert Insights in Structural, Geotechnical & Transportation Engineering"	AWH Engineering College, Kozhikode
		Creating Conducive and Engaging Classroom Environment for Learning and Teaching	CVR College of Engineering, Telangana
		Leveraging AI Tools for teaching and Learning	ISTE, Marian Engineering College
		FDP on "Entrepreneurship & IPR"	Marian Engineering College
12	REVATHY V.S.	Creating Conducive and Engaging Classroom Environment for Learning and Teaching	CVR College of Engineering, Telangana



13	KARUNA P.	Creating Conducive and Engaging Classroom Environment for Learning and Teaching	CVR College of Engineering, Telangana
14	MAGI N.S.	"Green Horizons: Advanced Materials and Techniques for Sustainable Construction"	Vidya Academy of Science and Technology, Thrissur
		"Recent Innovations & Upcoming Trends in Research for Civil Engineering"	Sandip Institute of Engineering and Management, Nashik
		Creating Conducive and Engaging Classroom Environment for Learning and Teaching	CVR College of Engineering, Telangana

## ASSOCIATION ACTIVITIES:

### 1. AMETOS CIVIL ASSOCIATION

#### EVENTS

- Inauguration of student chapters for the academic year.
- Session On: Unlocking Potential Of B.Tech Projects
- Session On: Building Information Modelling
- Session On: Artificial Intelligence Impact On Civil Engineering
- Site Visit - Spt Test, Lab Visit And Piling

### 2. IGS STUDENTS CHAPTER

#### EVENTS:

- Session On: Lessons From The Land: Topography Informed Building Practices In Kerala, The Untold Story Of Wayanad
- Session On: Unlocking Potential Of B.Tech Projects
- Session On: Building Information Modelling
- Session On: Skill Set That Construction Industry Needs
- Session On: Artificial Intelligence Impact On Civil Engineering
- Session On: Lidar Technology For Modern Surveying
- Site Visit - Spt Test, Lab Visit And Piling





### FACULTY ACHIEVEMENTS

1. Prof. Greeshma T. was was the mentor in ExamPrep for the year 2024 for MuLearn, a GTechInitative.
2. Prof. Kannan K. was the reviewer for **International Conference of emerging trends and technologies** organized by Model Engineering College during 11<sup>th</sup> to 13<sup>th</sup> April 2024
3. Prof. Kannan K. was the mentor in ExamPrep for the year 2024 for MuLearn, a GTechInitative
4. Prof. Kannan K. was the centre coordinator for KEAM 2024

### PUBLICATIONS/ PAPER PRESENTED

1. VaishnaviChandran of S4GT guided by Dr. Rani V., Associate Professor, MEC have published a paper on the topic **“Prediction of coastal erosion rates using AI technology”** in International Research Journal of Engineering and Technology on June 2024
2. GokulNath of S4GT guided by Dr. Rani V., Associate Professor, MEC have published a paper on the topic **“Combined effect of steel fibers and Ground Granulated Blast Furnace Slag on Clayey soil”** in International Research Journal of Engineering and Technologyon May 2024
3. Rijo Varghese of S4GT guided by Prof. Tara Leander., Assistant Professor, MEC have published a paper on the topic **“Bearing capacity of soil with Carbon fiber on welded wire mesh”** in International Research Journal of Engineering and Technologyon May 2024
4. Helen Thomas of S4GT guided by Prof. Revathy V S, Assistant Professor, MEC have published a paper on the topic **“Optimising soils stability:effects of organic matter and jute fibers on piping resistance of soil”** in International Research Journal of Engineering and Technologyon May 2024
5. KarthikaSatheesh G of S4GT guided by Prof. Magi N S, Assistant Professor, MEC have published a paper on the topic **“Bearing capacity improvement using coir geogrids tubes infilled with coconut shell chips”** in International Research Journal of Engineering and Technologyon May 2024
6. Abhijith R, Sabeer B S, Anagha C S, PrarthanaJayan and Karuna P. presented a paper on “3D printable geopolymers concrete” at National Conference on Advancing sustainability in Civil Engineering Practices held at St. Thomas Institute of Science and Technology- ASCP’24. ISBN : 978-93-340-4196-5
7. Aravind, Aleena, Asna, Abhishek and Karuna P. presented a paper on “Enhancement of wastewater treatment using palm oil clinker” at National Conference on Advancing sustainability in Civil Engineering Practices held at St. Thomas Institute of Science and Technology- ASCP’24. ISBN : 978-93-340-4196-5.



## STUDENTS ACHIEVEMENTS

### 1. MTECH 2022-24 S3 TOPPERS



### 1. BTECH S8 CIVIL TOPPERS



- Abhijith R, Sabeer B S and Anagha C S, Final year CE students guided by Prof. Karuna P has received ACME Best paper award with a prize money of 5k on the topic **“Geopolymer concrete mix for 3D printing”** in **“COLLOQUIUM 2024”**







3. Abhijith R, Sabeer B S, PrarthanaJayan and Anagha C S guided by Prof. Karuna P has received funding for project on the topic **“Development of 3D printable sustainable geopolymer mix with glass powder as partial replacement”** with a funding of Rs. 27140/- under CERD
4. Theertha B, Aparna S Nair, LekshmiSudharman, Vishnu A S and Gokul Krishna V S guided by Dr. Rani V. has received funding for project on the topic **“Spatial distribution and beach morphological studies with the application of geotextiles in coastal areas of Trivandrum”** with a funding of Rs. 35000/- under CERD
5. Abhijith R, Sabeer B S, PrarthanaJayan and Anagha C S, Final year CE students guided by Prof. Karuna P has **MTIC Award for best project** at Department of Civil Engineering, Marian Engineering College.
6. Sandra S S, Abhijith U, Sanjana A J and N Sathya of S6C guided by Prof Abhijith R P and Prof. Renju C M secured first prize for the topic “Amphibious House” in the fest of Mahaguru college of engineering, Kayamkulam (IGNITE V4) programme ‘byte burst’ mini project competition.

### **SNAPSHOT OF THE EVENTS:**











### **TECHNICAL TALKS:**

1. A technical talk on “STORMWATER QUALITY MODELING USING SATELLITE REMOTE SENSING AND GIS” was presented by Dr. Pooja P. Preetha, Assistant Professor, Department of Mechanical & Civil Engineering and Construction Management, CETPS, Alabama A&M University, USA on 25<sup>th</sup> July 2024 in association with ASCE and IEI Student Chapters, Department of Civil Engineering, MEC.



2. A technical talk on “MAP CREATION USING GIS, LIDAR AND DRONE TECHNOLOGY” was presented by Mr. Selvam A., Land Coordinators Technology, Chennai on 4<sup>th</sup> September 2024 in association with ASCE and IEI Student Chapters, Department of Civil Engineering, MEC.

### ABOUT THE EVENTS

Department of Civil Engineering honoured Senior Faculty members, Prof. K. P. Narayanan, Prof. Sasidharan and Prof. Balu K.R. and Farewell of Mtech 2022-2024 batch conducted on 26<sup>th</sup> July 2024. A technical talk on “ UNLOCKING POTENTIAL OF B.TECH PROJECTS” by Dr. Vishnu B. R., Associate Professor, Department of Mechanical Department, MEC and “SKILL SET THAT CONSTRUCTION INDUSTRY NEEDS” by Mr. Harishankar P, Center Head, SKILLZ, Trivandrum on 14<sup>th</sup> August 2024 in association with AMETOS and IGS Student Chapters, Department of Civil Engineering, MEC were organized. Students of S7 2021-2025 batch from Civil Engineering Department got placed at GRANTLEY EDUTECH PRIVATE LIMITED. The Civil engineering association-AMETOS and IGS student chapter of Marian Engineering College organized a talk on “ARTIFIFIAL INTELLIGENCE-IMPACT ON CIVIL ENGINEERING” on 22<sup>nd</sup> August 2024 by Mr. Sreekanth APV, Ex. Director, ARCADIS, Singapore. AMETOS and IGS student chapters of Marian Engineering College organized a talk on “LiDAR Technology for Modern Surveying” on 23<sup>rd</sup> August 2024 by Mr. Selvam Arumugam, General Manager, Land Coordinators Technology.

#### EDITORS:

##### Staff Editors

- Prof.Magi N S
- Prof. Karuna P

##### Student Editor

- Advity Srivastava



