

Dr.Mahalingam College of Engineering and Technology (An Autonomous Institution) Pollachi

Department of Civil Engineering

SKYSCRAPER [e-Magazine]



About MCET

Dr. Mahalingam College of Engineering and Technology (MCET) was established in the year 1998 by Dr. M. Manickam with a view to commemorate the 75th birthday of his beloved father Arutchelvar Dr. N. Mahalingam with a mission to impart high quality competency based education in Engineering & Technology to the younger generation to acquire the required skills and abilities to face the challenging needs of the industry around the globe. MCET is a self-financing, co-educational Autonomous Engineering College and it is approved by All India Council for Technical Education (AICTE), New Delhi & affiliated to Anna University, Chennai. The Institution has been accredited by NAAC with A++ grade and all eligible UG Programmes are accredited by NBA. MCET currently offers 10 UG 6 PG and 5 doctoral Programmes in Engineering, Technology and Science.

About the Department

Civil Engineering is the oldest engineering discipline that deals with the planning, design, construction and maintenance of the physical and natural built environment, including works like buildings, bridges, canals, dams and roads. The department of Civil Engineering at MCET was started in the year 2007 with B.E. – Civil Engineering Program and extended in 2012 for Post Graduate program in M.E. – Structural Engineering.

The Department of Civil Engineering at MCET has highly qualified and experienced faculty in diversified domains which helps to enlighten the young minds of students in the theoretical and experimental aspects. Department has state-of-art infrastructural facilities which provide expertise and facility to work on emerging technologies. In a nut shell the department is well nurtured to cater the needs of education through industry oriented curriculum, research, consultancy, co-curricular and extra-curricular programs for the career enhancement of the students.

VISION

To develop Competent Civil Engineers to meet the infrastructure challenges of India and the world.

MISSION

- To become one of the reputed departments offering Civil Engineering Program in the country.
- To produce excellent engineers to cope up with the changes through dynamic, innovative and flexible curriculum.
- To provide a conducive environment for teaching & learning and to develop leaders with effective communication skills.
- To conduct quality research driven by industry & societal needs and provide affordable engineering solutions in an ethical way.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

PEO 1 Graduates who effectively demonstrate engineering knowledge, problem solving skill, design capabilities and entrepreneurial skills by providing practical solution.

PEO 2 Graduates who effectively demonstrate professionalism in multi-disciplinary engineering environment, leadership quality, teamwork and engage in life-long learning.

PEO 3 Graduates who demonstrate an ethical commitment to the community and the profession through involvement with professional societies.

PEO 4 Graduates who make contributions to knowledge and establish best engineering practice through research and development.

PROGRAMME OUTCOMES (POs)

PO1. Engineering knowledge: Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization in the field of Civil Engineering.

PO2. Problem analysis: Identify, formulate, analyse and solve complex problems in construction industries using principles of mathematics, natural sciences and engineering sciences.

PO3. Design/development of solutions: Design a solution for complex civil engineering problems and design system processes to meet specific needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.

PO4. Conduct investigations of complex problems: Conduct investigations of complex problems including design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusion.

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: Understanding the impact of engineering solutions in social environment and demonstrate the knowledge for sustainable expansion.

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

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 with engineers and society to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions related to civil engineering professionals.

PO11. Project management and finance: Demonstrate and apply the knowledge of engineering and management principles to one's own work, as a team leader or a member to manage project in multidisciplinary environments.

PO12. Life-long learning: Recognize the need for, and have the ability to engage in independent and life-long learning in the context of technological change.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

PSO1. Problem Analysis: Able to arrive solutions to real time problems related to various domains of civil engineering through problem solving skills.

PSO2. Design and Management: Able to design systems, components and processes considering safety, quality and cost consideration and able to prepare project documents, engineering drawings and construction schedules

EVENTS ORGANISED

INDUSTRY CONNECT CLUSTER



Industrial Visit to **TechNew Building Products, Madukkarai, Coimbatore** for Third year B.E. Civil Engineering students on **25.11.2023**.

OUTREACH CLUSTER



National Pollution Control Day 2023 guest lecture by Mr. P. Senthil Kumar, Founder - Alamvizhuthu NGO, Anaimalai on **30.11.2023**.

TEACHING LEARNING CLUSTER



Guest Lecture on "Sustainable System Thinking" by Er. R.L. Venkatachalam, Managing Director, Sre Kumaraguru Builders, Pollachi on **24.02.2024**.

Student Achievements

S. No	Roll No	Name of the Students	Event Details	Participation / Awarded (First/Second/Third Prize)	Organizer and Place of program	Date
1.	20BCE009	Vijayboopathy T	Workshop on Sustainable Concrete Mix Proportioning	Participation	technoVIT'2023 - Vellore Institute of Technology, Chennai	04.10.2023
2.	20BCE020	Praveena A	Paper Presentation	Participation	RACES 2K23 - Vellalar College of Engineering and Technology, Erode	07.10.2023
3.	21BCE313	Jeetha R	International Conference on Recent Advances in Science, Technology, Engineering, Management and Social science, RASTEMS-2023)	Participation	Karpaga Vinayaga College of Engineering and Technology, Chengalpattu	06.10.2023 to 08.10.2023
4.	21BCE312	Sumesh V	Two days National Level Conference - Advanced Materials for Environmental Sustainability	Participation	MIT - Manipal, AMES 2023	12.10.2023 & 13.10.2023
5.	20BCE009	Vijayboopathy T	Poster Presentation	Second Prize	Kallikrates'2023 - KPR Institute of Engineering and Technology, Coimbatore	13.10.2023
6.	22BCE319	Adarsh Viswanathan. H	Paper presentation & Cadd contest	Participation		
7.	21BCE026	Siranjeevi. S	Paper presentation & technical quiz	Participation		
8.	21BCE020	Devatharshini. R	Paper presentation & technical quiz	Participation		
9.	21BCE031	Alamelu.K	Poster, Code cracking ,technical quiz	Second Prize		
10.	21BCE022	Kishore P	Poster, Code cracking, technical quiz	Second Prize		
11.	21BCE012	Vishnu varthan M	Workshop on Revit and Robot Structures	Participation	CRIADIOS 2K24 - Shri Krishna College of Engineering and Technology, Coimbatore	28.02.2024
12.	21BCE020	Devatharshini R		Participation		
13.	21BCE022	Kishore P		Participation		
14.	22BCE319	Adarsh viswanathan H		Participation		
15.	23MST001	Gayathri	Workshop on Effective Research Article Writing and Academic Publishing Workshop	Participation	KPR Institute of Engineering and Technology, Coimbatore	10.02.2024

Alumni Voice

இந்த கல்லூரியை தேர்ந்த எடுத்தபொழுது, எந்த அளவு கற்றலுக்கு நல்ல கல்லூரி என்று சொன்னார்களோ, அதேஅளவு இன்றளவும் உணர்கிறேன். ஆம்,இந்த வருடத்துடன் கட்டிடத்துறையில் பல பொறுப்புகளிலும், பல நிலைகளிலும், பலதரப்பட்ட ஆளுமைகொண்ட அலுவலர்களுடன் பத்து வருடம் பணி புரிந்து விட்டேன் என் கல்லூரியில் கற்ற பொறியியல் கல்வியின் தரத்தின் அளவு, என்னுடன் பணியாற்றும் பொறியாளர்களிடம் காண முடியவில்லை. இதை இந்த தருணத்தில் சொல்வதில் பெருமை கொள்கிறேன். நான்கு வருட கல்லூரி நாட்களில் , பல முறை கல்வி கட்டணங்கள் தாமதமாக செலுத்தியிருக்கிறேன். கல்லூரி நிர்வாகம் கட்டணத்தை எல்லாம் பெரிய பொருளாக எண்ணவில்லை. பத்து வருடங்களுக்கு முன்பு கட்டணத்தை மட்டுமே முக்கியமாக வைத்து இயங்கிய கல்லூரியின் மத்தியில், டாக்டர் மகாலிங்கம் கல்லூரி,கல்வி சேவை கண்டு இன்று மனம் மெச்சுகிறது. ஒரு தொழிநுட்ப பொறியியல் கல்லூரிக்கு முக்கியமாக நான் கருதுவது ஆய்வகமும், தொழில் நுட்பத்தின் மீதான நடைமுறை அறிவும். அந்த வகையில், கட்டிடத்துறையின் கல்லூரி ஆய்வகத்தில்நான் கற்ற அறிவு, என்னை பன்னாட்டு நிறுவனத்தில் தரக்கட்டுப்பாடு துறையில் 5 வருடம் பணி செய்ய உதவியது. இன்றளவும் புதிய மாணவர்களுக்கு சொல்லுவது, டாக்டர் மகாலிங்கம் பொறியியல் மற்றும் தொழிநுட்ப கல்லூரி ஒரு சிறந்ததேர்வு சொல்லுவேன்..



Er. A.P. Srinivasan, B.E.,
Assistant Manager,
Project & Engineering,
Vestas Wind Technology
India Pvt Ltd, Chennai.

FACULTY ACHIEVEMENTS

FDP/Paper publication/Online Courses:

S. No	Name	Designation	Online Course Completed / FDP / Publication
1	Dr.K. Murali	Professor & Head	Granted design patent "DE-FLUORIDATING UNIT FOR GROUNDWATER REMEDIATION" on 12.10.2023.
2	Dr.N.Natarajan	Associate Professor	Attended FDP on "AI TOOLS IN SCIENTIFIC WRITING" - 02.02.2024 and 03.02.2024 at KPR institute of engineering and technology .
			Completed online course in NPTEL - Technical English for Engineers (Gold (Topper 1%))
			Paper published on "Performance evaluation of grid connected Photovoltaic system for Kuttiyadi village in Kerala, India. Environmental science and pollution research, 30, 99147-99159. (SCIE with IF= 5.8), 2023"
			Paper published on "Enhanced variational mode decomposition with deep learning SVM kernels for river streamflow forecasting. Environmental Earth Sciences, 82, 544. (SCI with IF = 2.8), 2023"
			Paper published on "Nonparametric versus parametric (both unimodal and mixed) probability distribution in hourly wind speed modelling for some regions of Tamil Nadu state in India. Stochastic environmental research and risk assessment, 38, 535-569. (SCI with IF = 4.2), 2024"
			Paper published on "Flow behaviour of wastewater contaminants in compost with manufactured sand (M-Sand) under layered conditions. Journal of solid waste technology and management, 49(3), 231-239 (SCOPUS), 2023"
			Paper published on "A critical overview on recent avenues in co-composting of animal manure with other organics of varying toxicity. Journal of solid waste technology and management, 49(3), 261-269 (SCOPUS), 2023"

FACULTY ACHIEVEMENTS

FDP/Paper publication/Online Courses:

S. No	Name	Designation	Online Course Completed / FDP / Publication
3	Mr. S. Krishna Kumar	Assistant Professor (SS)	Completed online courses on: <ul style="list-style-type: none"> FDP & Online course - NPTEL - Technical English for Engineers Online course - Coursera - Renewable Energy and Green Building Entrepreneurship
			Paper published on "DRASTIC model developed with lineament density to map groundwater susceptibility: a case study in part of Coimbatore district, Tamilnadu, India" - Q1 journal - Environment, Development and Sustainability 25 (9), 10411-10423
4	Mr. A. Praveen Kumar	Assistant Professor (SS)	Completed NPTEL Course "Technical English For Engineers"
5	Mr. S.Dineshkumar	Assistant Professor	Completed online courses on: <ul style="list-style-type: none"> Renewable Energy and Green building entrepreneurship Search Engine Optimization (SEO) with square space Attended workshop on "AI Tools in Scientific Writing"
			Paper published on "Analysis of microstructural properties and durability characteristics of geopolymers mortar"
6	Ms. S. Suthaviji	Assistant Professor	<ul style="list-style-type: none"> Attended online FDP on "Innovative Technologies for Sustainable Environment" conducted by GMR Institute of Technology, AP on 26.12.23 to 30.12.23. Attended Three-Day Research Workshop on "ChatGPT for Researchers" from 27/02/2024 to 29/02/2024 through online mode organized by Nuhianwali Education Society. Attended six day Virtual Faculty Development Program on "Modelling and Simulation Softwares in Civil Engineering" from 26.02.2023 to 02.03.2024 in Sri Krishna College of Technology, Coimbatore.
			<ul style="list-style-type: none"> Attended ATAL FDP on "INNOVATIVE CONSTRUCTION MATERIALS AND TECHNIQUES FOR SUSTAINABLE DEVELOPMENT" 11.12.23 to 16.12.23. Attended Online FDP "Civil Engineering Industry Oriented Innovative Softwares" 05.02.24 to 09.02.24.
7	Mr. P.S.Sathish Kumar	Assistant Professor	<ul style="list-style-type: none"> Attended ATAL FDP on "INNOVATIVE CONSTRUCTION MATERIALS AND TECHNIQUES FOR SUSTAINABLE DEVELOPMENT" 11.12.23 to 16.12.23. Attended Online FDP "Civil Engineering Industry Oriented Innovative Softwares" 05.02.24 to 09.02.24.
			Paper published on "COMPARISON OF FLEXURAL STRENGTH OF RCC BEAM USING STEEL AND BAMBOO SLAT AS REBAR", 2nd International Conference on Innovative Research Trends in Civil Engineering, 16 & 17 Nov, 2023.
8	Mr. S. Syed Masoodhu	Assistant Professor	NPTEL - SWAYAM Online FDP Course - Sustainable Engineering Concepts And Life Cycle Analysis
			NEP 2020 Orientation & Sensitization Programme under the MM-TTP of UGC organized by Gandhigram Rural Institute - DTBU, Gandhigram. from 1.2.24. to 10.2.24
9	Dr.K.Srinivasan	Assistant Professor (SS)	Granted design patent "DE-FLUORIDATING UNIT FOR GROUNDWATER REMEDIATION" on 12.10.2023.
10	Mr.M.Sudharsanan	Assistant Professor	Granted design patent "DE-FLUORIDATING UNIT FOR GROUNDWATER REMEDIATION" on 12.10.2023.
11	Ms. R. Anuja	Assistant Professor	ATAL FDP on "Civil Engineering Industry Oriented Innovative Softwares"
			ATAL FDP on "Innovative Construction Materials and Technologies for Sustainable Development"



PLACEMENT DETAILS

Batch 2020-2024



S.No.	Roll Number	Name of the Student	Company Placed	Salary (LPA)
1	20BCE002	HARIHARASUDHAN S	MGH Infrastructures, Punjab.	4 LPA
2	20BCE005	HARSHATH RAJ A	Bluescope Steel India (P) Ltd, Chennai.	4.2 LPA
3	20BCE007	PRAVEEN KUMAR D	Zenus Group, Uttarakhand.	5 LPA
4	20BCE009	VIJAYABOOPATHY T	Zenus Group, Uttarakhand.	5 LPA
5	20BCE010	HAVISH GRAY S R	Ayari Venture (P) Ltd, Tirupur.	1.68 LPA
6	20BCE011	DINESH K	Zenus Group, Uttarakhand.	5 LPA
7	20BCE012	NIVETHITHASANKARI S	Ayari Venture (P) Ltd, Tirupur.	1.68 LPA
8	20BCE013	BHARANIPRIYA S	Zenus Group, Uttarakhand.	5 LPA
9	20BCE014	MOHAMMED ARIF M	Bluescope Steel India (P) Ltd, Chennai	4.2 LPA
10	20BCE015	HARIRAM K	MGH Infrastructures, Punjab.	4 LPA
11	20BCE016	SURYAKUMAR R	Zenus Group, Uttarakhand.	5 LPA
12	20BCE017	NATHIYA P	Zenus Group, Uttarakhand.	5 LPA
13	20BCE018	SUBARANJANI M	Zenus Group, Uttarakhand.	5 LPA
14	20BCE020	PRAVEENA A	Zenus Group, Uttarakhand.	5 LPA
15	21BCE301	JOHN IRUDAYA RAJ J	Ayari Venture (P) Ltd, Tirupur.	1.68 LPA
16	21BCE303	DHUVARAK RAJ M	Ayari Venture (P) Ltd, Tirupur.	1.68 LPA
17	21BCE305	SURYAPRASHATH B	Zaron Industries, Avinashi.	1.44 LPA
18	21BCE306	PRAVEENRAJ S	Zenus Group, Uttarakhand.	5 LPA
19	21BCE309	KAVIN PRASATH P	Ayari Venture (P) Ltd, Tirupur.	1.68 LPA
20	21BCE311	JAVITH AKTHAR J	Sobha Developers, Bangalore.	3 LPA
21	21BCE312	SUMESH V	MGH Infrastructures, Punjab.	4 LPA
22	21BCE313	JEETHA R	Zenus Group, Uttarakhand.	5 LPA
23	21BCE314	THILAKRAKUL M	Zaron Industries, Avinashi.	1.44 LPA



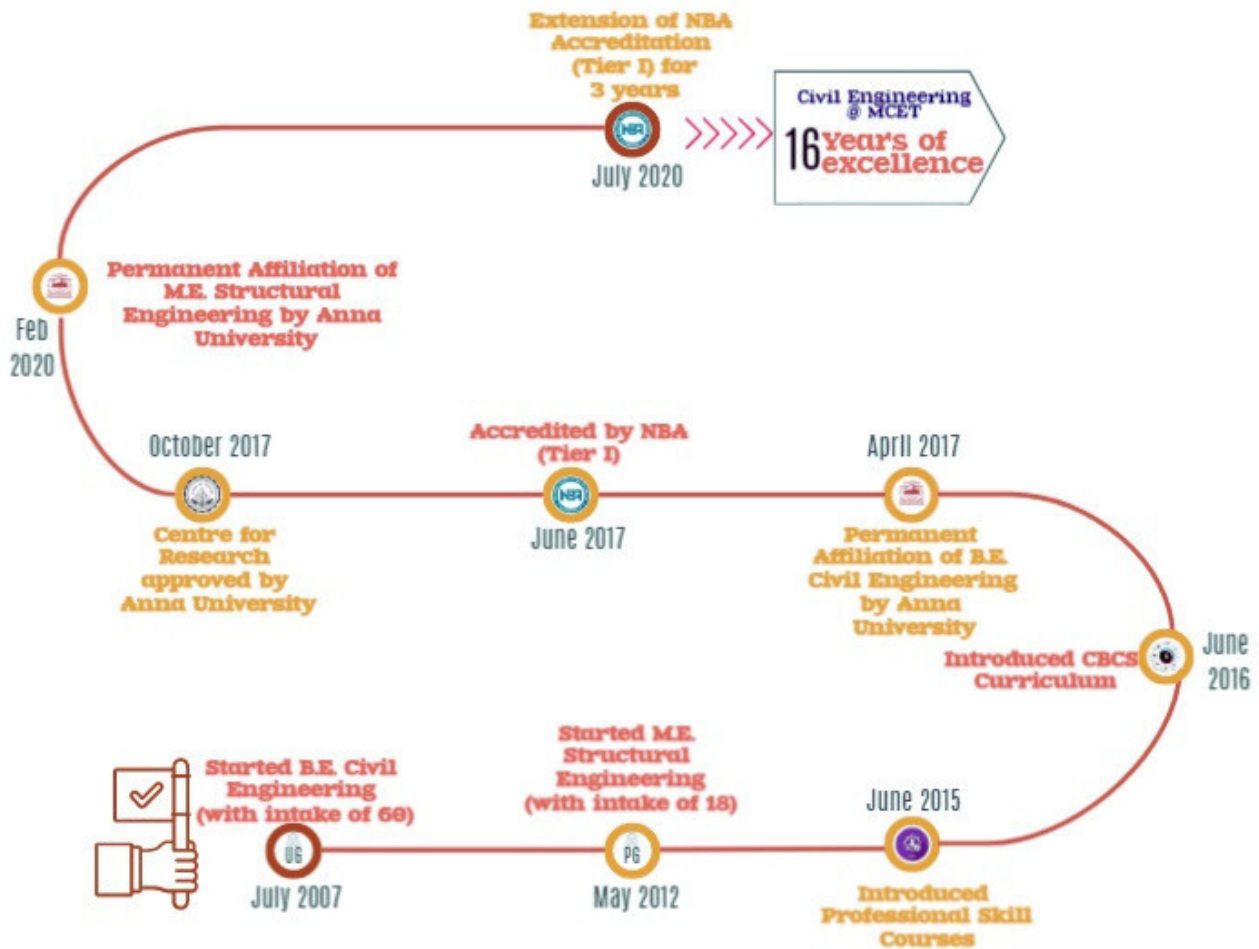
HIGHER STUDIES

Batch 2020-2024



S.No.	Roll Number	Name of the Student	OFFERED PG COURSE	INSTITUTION
1	20BCE008	SANGAMITHRA S	M.Des. in Interior Design	CAES, Bengaluru.
2	20BCE023	SASIPRASANTH S V	M. Plan in Urban Planning	NICMAR, Pune.

Department Milestones



Reach us:



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Editor:

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HOD-Civil Engineering

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