

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.

DEPARTMENT VISION

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

DEPARTMENT 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.

Programme Outcomes (PO's)

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 EDUCATIONAL OBJECTIVES (PEO's)

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 an establish best engineering practice through research and development.

PROGRAMME SPECIFIC OUTCOMES (PSO's)

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

Student Achievements



Sumesh V & Abinav Ramesh R of final year B.E. Civil Engineering presented their research paper in **Two Days National Conference on "Advanced Materials for Environmental Sustainability"(AMES 2023)** at **Manipal Intitute of Technology, Manipal** on **12.10.2023 & 13.10.2023**.

Vijaya boopathy T & Hariharasudhan R of Final Year B.E. Civil Engineering **won 2nd prize** in Poster Presentation in the **National Level Technical Symposium Kallikrates'23** organised by Department of Civil Engineering, KPR Institute of Engineering and Technology, Coimbatore on **13.10.2023**.



James Paul Ambrose of Final Year B.E. Civil Engineering has been awarded **3rd place** for the category **'Best Actor'** for the film **"Mounam Kodithu"** in **"IFH NATIONAL LEVEL SHORT FILM AWARDS 2023"** organised by Indian Film House.

Jeetha R of Final Year student B.E. Civil Engineering presented her research paper in **International Conference on Recent Advances in Science, Technology, Engineering, Management and Social science (RASTEMS-2023) (online)** organised by Karpaga Vinayaga College of Engineering and Technology, Chengalpattu, India held during, **06.10.2023 to 08.10.2023**.



Sumesh V, Hariharasudhan S & Hariram K of Final Year B.E. Civil Engineering **got placed** in **MGH Infra, Punjab** with Salary package of **4LPA**.

EVENTS ORGANISED



Placement Training (Phase I) on Google SketchUp with V-Ray for Final year B.E. Civil Engineering students from **03.07.2023 to 10.07.2023** in collaboration with Edifice Placement Solutions, Coimbatore.



Association Inauguration Function (2023-2024) and Guest lecture on “Geopolymer Concrete Applications” was organised by Beavers Association on **02.09.2023**.



Engineers Day 2023 celebration by Department of Civil Engineering in collaboration with **Association of ACE Civil Engineers, Pollachi** with special lecture from **Chief Guests Dr. A. Sudhahar, Chairman - ACCE(I), Coimbatore** and **Er. S. Sivalingam, Chief Engineer, PWD** on **15.09.2023**.



Department of Civil Engineering, Beavers Association organised **Quiz Competition** for B.E. Civil Engineering students on **28.10.2023**.

ONLINE COURSES COMPLETED

Student Name	Roll Number	Course Completed (NPTEL / COURSERA)
HARSHATH RAJ A	20BCE005	Internet History, Technology, and Security
Vijay Boopathy T	20BCE009	Circular Economy - Sustainable Materials Management



INDUSTRIAL VISITS



Industrial Visit to **Velliangadu Water Treatment Plant, Mettupalayam, Coimbatore** for Third year B.E. Civil Engineering students on **01.08.2023**.



Industrial Visit to **Teemage Precast Unit at Kangeyam** for Final year B.E. Civil Engineering students on **04.08.2023**.

Alumni Voice

This is Abinaya Duraisamy, an Alumnus of MCET (2017-2021). Looking back at the four years that I spent in Dr. MCET, there are so many memories that come as my flashback. I see the transferable set of competencies that got built up over a period of time in me. "We don't grow when things are easy, we grow when we face challenges". I completely resonate with this adage. And those four years were challenging.

They escalated me on the learning curve and led to my personal development. When I say challenging, I talk about the series of tests in each semester that build the knowledge and pedagogy. I also talk about the interventions that college had for personal development classes. I also talk about the opportunities available in four years to hone the skills (cultural and technical fests, workshops, seminars, conferences etc).

I personally believe that Dr. MCET provides with access and exposure that is required to build those set of competencies. Accentuating the key points and recapitulating my journey I would say,

- I met different people and that's how I got different perspective.
- The four years were like burning in a crucible and coming out refined, having those leadership qualities like perseverance, grit and embracing the chaos.
- Opportunities and platforms that made me equipped enough to fight the battle of outside world.
- The staff that owned my development.



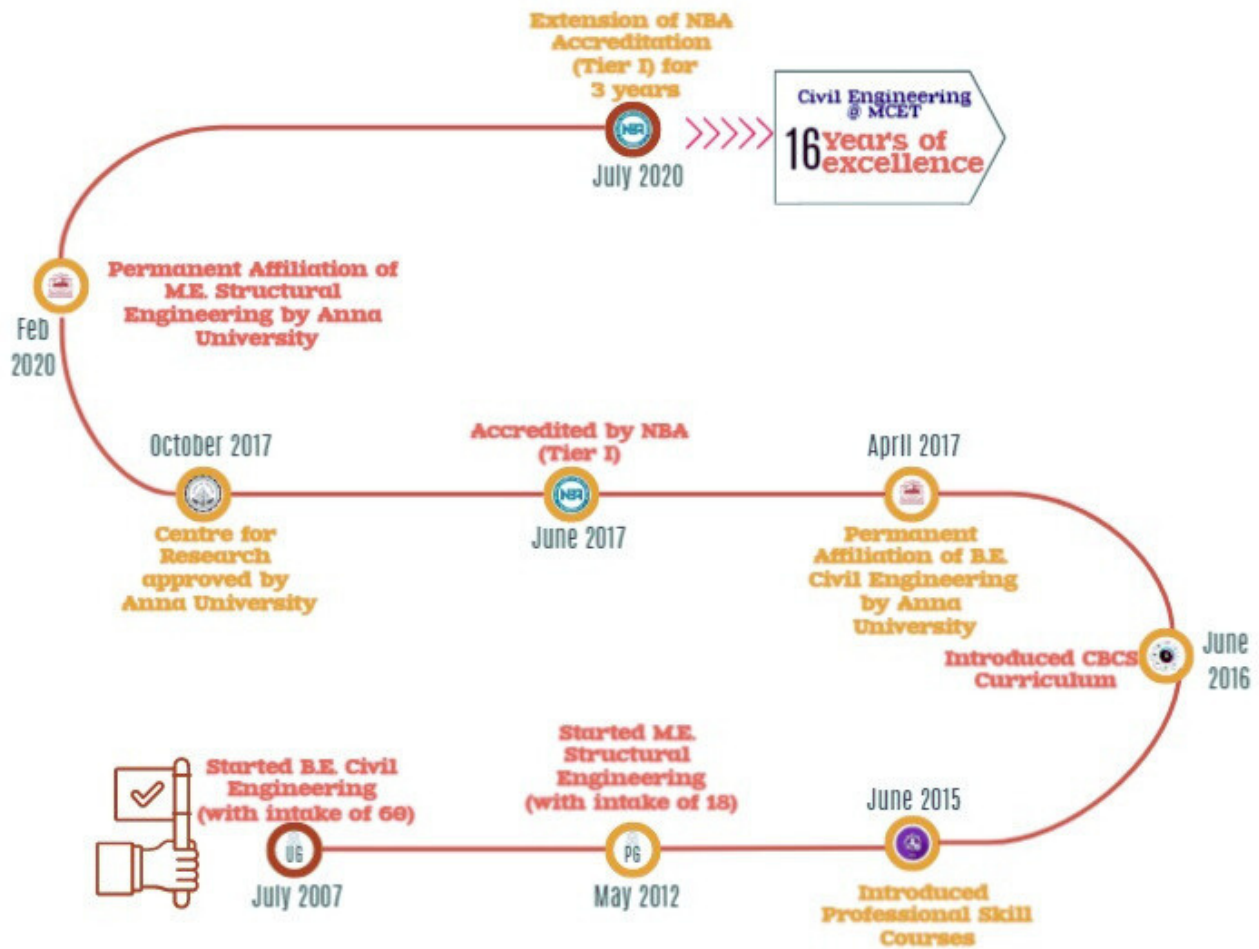
Ms. Abinaya D. B.E.,
Pursuing M.A.
Development
Environment Societies
and History in South
Asia, University of
Heidelberg, Germany.

FACULTY ACHIEVEMENTS

FDP/Paper publication/Online Courses:

S. No	Name	Designation	Online Course Completed / FDP / Publication
1	Dr.K. Murali	Professor & Head	Published a book titled "Sustainable and Green Engineering", COSMOS Scienific Publications, ISBN:978-81-19359-49-3.
2	Dr.N.Natarajan	Associate Professor	Paper published on "Public Acceptance of Wind Farms in Tamil Nadu, India – Key Observations and Conceptual Framework for Social Inclusion". Polish journal of environmental studies, 32(4), 1-15. (SCI, IF 1.871)
3			Paper Published on "Comparison of Wind Speed Probability Distribution Models for Accurate Evaluation of Wind Energy Potential": A Case study from Kerala, India. Institution of Engineers (Series A), 104(3), 551-563. (SCOPUS)
4			Paper Published on "Prediction of water level using machine learning and deep learning techniques". Iranian Journal of Science and Technology- Transactions in Civil Engineering, 47, 2437-2447. (SCI, IF = 1.7)
5			COURSERA Course on "Exploratory data analysis for machine learning" attended for (4 weeks) on 15.8.2023
6	Ms. S. Suthaviji	Assistant Professor	Course Training on Spoken tutorial Project at IIT Bombay, funded by National Mission on Education ICT, Ministry of India. Coursera course on "Business Sustainability in the Circular Economy" Cousera course on "Introduction to Generative AI"
7	Mr. P.S.Sathish Kumar	Assistant Professor	Cousera course on "Excel Skills for Business: Essentials"
8			Cousera course on "Excel Skills for Business: Intermediate I"
9			NPTEL Course on "Developing Soft Skills and Personality"
10	Mr. S. Syed Masoodhu	Assistant Professor	NPTEL Course on "Sustainable Engineering Concepts and Life Cycle Analysis"
11	Dr.K.Srinivasan	Assistant Professor (SS)	NPTEL Course on "Developing Soft Skills and Personality"
12	Mr.M.Sudharsanan	Assistant Professor	NPTEL Course on "Developing Soft Skills and Personality"
13	Ms.R.Anuja	Assistant Professor	Cousera course on "Excel Skills for Business: Essentials"
14			Cousera course on "Excel Skills for Business: Intermediate I"
15			NPTEL Course on "Developing Soft Skills and Personality"

Department Milestones



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