

RESOURCE PERSONS



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Mar Baselios Institute of Technology and Science



FACULTY DEVELOPMENT PROGRAMME (ONLINE MODE)

ON

DIGITAL TRANSFORMATION IN CIVIL ENGINEERING

DATE : 8-13 DECEMBER 2025



Organized by

DEPARTMENT OF CIVIL ENGINEERING



**MAR BASELIOS INSTITUTE OF
TECHNOLOGY AND SCIENCE
(MBITS)
KOTHAMANGALAM**



MAR BASIL
GROUP OF INSTITUTIONS
SINCE 1936



ABOUT MBITS

MBITS Engineering College, a premier institution started in 2009 under Mar-Thoma cheria-pally, Kothamangalam, that is committed to providing quality education to students who are passionate about pursuing a career in engineering. We take pride in the fact that we are accredited by the National Assessment and Accreditation Council (NAAC), an autonomous body established by the University Grants Commission (UGC) of India to assess and accredit institutions of higher education in the country. Our motto, "Wisdom Crowns Knowledge", reflects our belief that true knowledge is not just about what you learn in the classroom, but also about how you apply that knowledge in real-world situations. At MBITS, we strive to provide our students with a holistic learning experience that goes beyond academic excellence. We aim to develop future leaders who are not just skilled engineers but also responsible citizens with a strong sense of social and ethical values. In recent years, the college has organized many programs of national importance; in hosting Smart India Hackathon, IEEE etc., and achieved national and international awards; Zee Edu future Excellence Award 2021-2022, New Code of Education Award 2021&2022, India Global Award, National Happiness Unicorn Award 2022, Best Principal award 2021 by CEGR, The international Business award 'The stevies-2022'

ABOUT DEPARTMENT

The Department of Civil Engineering was started in the year 2009 with an undergraduate program affiliated to MG University, Kottayam, Kerala with a sanctioned intake of 60 students, headed by Prof. M. V George. In 2012, the department started an M.Tech programme in Computer Aided Structural Engineering with an intake of 24 students and in 2013 expanded its domain by doubling the intake to B. Tech programme from 60 to 120 seats. The department is blessed with highly qualified, experienced and dedicated faculty members, without whom the achievements were never possible. The department has state of the art laboratories with vast area, machinery, equipment and other facilities. In addition to high quality teaching and instruction, the department offers technical consultancy services also. Testing facilities are provided for different construction materials in our laboratories. The department has a separate library with more than 200 books and a large number of journals essential and useful to both teachers and students.

VISION OF THE DEPARTMENT

- Develop a centre of excellence, to mould civil engineering professionals.

MISSION OF THE DEPARTMENT

- To impart quality education in civil engineering and allied fields.
- To inculcate knowledge of sustainability in various domains of infrastructure development.
- To nurture civil engineers, with core values to cater societal needs.
- To equip the graduates conversant to research and practical fields of civil engineering to meet global standards.

EXPECTED OUTCOME OF FDP

Digital transformation in Civil Engineering represents a significant shift in how infrastructure is planned, designed, constructed, and maintained. This 6-day online FDP equips participants with a comprehensive understanding of emerging digital tools and technologies that are reshaping the civil engineering landscape. Through the programme, participants gain familiarity with Building Information Modelling (BIM), GIS platforms, cloud-based project management systems, automation software, and data-driven decision-making tools. The FDP emphasizes integrating BIM into academic and project workflows to enhance visualization, coordination, clash detection, and lifecycle management. It also introduces concepts such as IoT-enabled monitoring, drone-based surveying, AI/ML applications, and digital twins, enabling predictive maintenance and improved asset performance. By exploring Industry 4.0 frameworks, the FDP strengthens the faculty's ability to update curriculum, enhance research capability, and incorporate digital practices into teaching and consultancy. Participants learn how digital project management and collaboration platforms streamline communication, documentation, and progress tracking. The FDP further fosters innovation and entrepreneurship by exposing participants to market trends, industry adoption, and opportunities in digital construction technologies. Altogether, this integrated approach advances the technical competence of faculty members, promotes academia-industry collaboration, and empowers participants to adopt and disseminate digital transformation practices, ultimately enhancing the efficiency, sustainability, and quality of civil engineering education and professional practice.

WHO CAN APPLY?

Academicians, Research Scholars, Industry professionals.

Registration Fees: 100/- (G-Pay No: 94965 75501)

Registration Link

<https://forms.gle/mDoxv9WzJhB82JidA>



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