



Approved by AICTE and Affiliated to APJ Abdul Kalam Technological University

DEPARTMENT OF CIVIL ENGINEERING

Online Faculty Development Programme

RECENT TRENDS IN DESIGN, CONSTRUCTION AND MAINTENANCE OF CONCRETE PAVEMENTS

5th - 9th July 2021



Sponsored by



APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, KERALA

MBCET

Situated amidst 21 Educational Institutions in the Mar Ivanios Vidyanagar, just 5 kms from the heart of Thiruvananthapuram city, MBCET stands tall as a symbol of the quest of Professional and Technological studies. As a proud part of Mar Ivanios Vidyanagar on the blessed Bethany Hills, deriving the inner strength of truth and goodness from the visionary Patrons, Mar Baselios College of Engineering and Technology inspires the aspirations of generations of knowledge-seekers. Established in 2002, the College is administered by the Malankara Catholic Educational Society of Major Archdiocese of Thiruvananthapuram. The College offers five B.Tech and M.Tech programmes and PhD. MBCET is accredited by NAAC with an "A" Grade (CGPA 3.13) and all the B.Tech programmes are accredited by NBA since July 2016. It is conferred with autonomous status by UGC in 2020 and is affiliated to APJ Abdul Kalam Technological University, Kerala.

Department of Civil Engineering

Started in the year 2005, the Department of Civil Engineering is a vibrant place for learning, where students pursue their educational interests in order to lend the next generation to better prospects. The students develop high quality technical expertise with a sound knowledge in basic engineering principles, technical skills and innovative research capabilities. The students have access to state-of-the-art facilities and well equipped laboratories. They are provided also with opportunities to earn valuable experience in the field through value added courses frequently conducted by the Department. Student Chapters of professional bodies like American Society of Civil Engineers (ASCE) and Indian Plumbing Association (IPA) help students to get connected to their peers and provide with knowledge and opportunities to shape their profession.

Vision

To be a Centre of Excellence in Civil Engineering education with a global perspective, creating ethically strong engineers for the service of society.

Mission

To provide Engineering Education which can create exemplary professional Civil Engineers of high ethics with strong conceptual foundation coupled with practical insight, to serve the industry and community.

About the Faculty Development Programme

In the Pavement Construction industry, the concepts of "sustainable development" are receiving attention among the decision-makers as the causes of global warming and climate change are debated. With regard to the huge investments in the road sector in the Country, the major focus is on initiatives to demonstrate and ensure sustainable practices in Pavement Construction by choosing the appropriate pavement type duly considering life cycle cost, sustainability, and resiliency issues. A solution in this direction is by adopting concrete pavements taking into account the design life, performance, and life cycle cost and also the environmental issues of lower aggregate consumption.

Concrete pavements are economical, cost-effective, consuming minimal materials, energy, and other resources for construction, maintenance, and rehabilitation activities over their lifetime. Apart from longevity, other features of concrete pavement that further enhance their sustainability are: reduced vehicle operation cost, less fuel during production, transportation and placement, conservation of natural resources, etc. They can incorporate industrial by-products and consumes lesser virgin aggregates during the design life and are also 100% recyclable.

The proposed Faculty Development Programme will address various topics related to material characterization, analysis and design, construction, maintenance, and rehabilitation of sustainable concrete pavements. Special attention is given to incorporate the state-of-art practices in the concrete pavement sector and also the recent developments in concrete pavement technology.



Resource Persons

Dr J Murali Krishnan
Professor, IIT Madras

Dr Surender Singh
Asst Professor, IIT Madras

Dr Atul Narayan
Asst Professor, IIT Madras

Dr Sudhakar Reddy
Professor, IIT Kharagpur

Dr M Amarnatha Reddy
Professor, IIT Kharagpur

Dr Anjan Kumar
Asst Professor, IIT Guwahati

Dr R S Sonparote
Asso. Professor, VNIT, Nagpur

Dr Sunitha K Nayar
Asst Prof. (Visiting), IIT Palakkad

Dr Anush Konayakanahalli Chandrappa
Asst Professor, IIT Bhubaneswar

Dr Dhanya B S
Asso. Professor, RIT Kottayam

Mr G Nagesh Puttaswamy
AGM, Regional Head Technical Services, UltraTech Cement Ltd.

Mr Basavaraj Kabade
Superintending Engineer, BBMP, Bangalore

Mr Lokesh T R
Executive Director, Infra Support Engineering Consultants Pvt. Ltd.

Mr Rajib Chattraj
Dy. Chief Engineer, West Bengal PWD

Dr Sanjay Bajaj
AVP-Business Development, WIRTGEN Group

Mr Jwalendra Kumar
EE (Retd.), Karnataka PWD

Mr Satander Kumar
Scientist (Retd.), CRRRI

Dr Neethu Roy
Dean (R&C), Professor, MBCET

Topics covered

- *Material Characterization and Mix Design*
- *Design Parameters and Analysis of Concrete Pavements*
- *Design of Concrete Pavements for Highways and Low Volume Roads*
- *Construction and Quality Control*
- *White Topping*
- *Evaluation, Rehabilitation and Retrofitting of CC Pavements*
- *Design and Construction of Special Types of Concrete Pavement :*
 - *Fibre Reinforced Concrete Pavements, Roller Compacted Concrete Pavements, Short Panelled Concrete Pavements, Interlocking Concrete Paver Blocks, Pre-cast Concrete Pavements and Porous Concrete Pavements*
- *Case Studies and Lessons Learnt on Construction and Rehabilitation*
- *Areas for Research on Concrete Pavements*

Who can attend

The FDP is open for faculty members of APJ Abdul Kalam Technological University (APJAKTU) affiliated Engineering Colleges, Research Scholars, PG Students and participants from Government Organizations and Industry.

Dates to remember

Commencement of registration : **22nd June 2021**

Last date of registration : **29th June 2021**

Confirmation of participation : **1st July 2021**

Online registration details

Online registration is essential.

Link for **Webex** meeting will be shared to registered participants through email.

Total no. of seats: 150

Admission based on first-come, first-serve basis.

NO registration fee.

Link for Sponsorship Certificate : <https://tinyurl.com/fdpccspons>

Link for Registration : <https://tinyurl.com/fdpccpavement>



Scan and Register

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Advisory Committee

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