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Dr. Ch. Hanumantha Rao, Prof & HOD, CE

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Dr. Ashwin Raut, Asso.Prof, CE

Mr. Kone Venkatesh, Asst.Prof, CE

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Dr. N. Venkatram, Dean (Academics)

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Mr. Lingeshwaran, Asst.Prof., CE

Mr. Sunny Agarwal, Asst.Prof., CE

Mr. Namburu Sandeep Kumar, Asst.Prof., CE

Mr. Mangalampalli Anil Kumar, Asst.Prof., CE

Mr. Yadlapalli Vinod, Asst.Prof., CE

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Dr. V. Balakumar, Sr Consultant at Simplex Infra Ltd

Mr. G. Boopathi, Director (Unigcore Const. India Pvt Ltd)

Ar. K. Sundararaman, Asso. Prof. (RSA), Scholar (IITM)

Mr. E. Vetriselvan, Manager-Projects (EPMCR)

Ms. S. Manna Simon, Doctoral Research Scholar (IITM)

Ms. Sreelakshmi S, Doctoral Research Scholar (IITM)

Mr. Vinay Mathews, Chartered Engineer (Ind. Consultant)

Mr. Manu K Poulose, Doctoral Research Scholar (IITM)

Dr. B. Sudheer Kumar Reddy, Asst. Prof (Sreenidhi)

Mr. Balasubramani Mahesh, Asst. Prof. (NICMAR-H)

Mr. P. Mohan Chandra, Doctoral Research Scholar (IITM)

Mr. Rakshith Komalan H K, Engineer (NCBS-TIFR,Bengaluru)

Mr. Srinath P, Doctoral Research Scholar (IITM)

Dr. Karthik Dasari, Research Assistant (Freelancer)

Mr. Santhosh L, Research Associate (L&T), Scholar (IITM)

Mr. S. Shriram, Asst. Prof. (Amrita College of Engg- Chennai)

Mr. Varun Kumar Reja, Doctoral Research Scholar (IITM)

Mr. S. Shanmugaraj, Project Officer (IITM)

Mr. Pavankumar Tadepalli, MS Scholar (IITM)

For more Details Contact: **Dr. Marimuthu K**

 $\label{thm:local_professor} Associate\ \mathsf{Professor},\ \mathsf{Civil}\ \mathsf{Engineering}\ \mathsf{Department},\ \ \mathsf{KLEF}.$

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One Week Online FDP on

CONSTRUCTION TECHNOLOGY and MANAGEMENT

A Bird's-Eye View

24th-29th, August, 2020





About KL Deemed to be University:

Koneru Lakshmaiah Education Foundation was established in 1980-81, as K.L. College of Engineering, which was upgraded to K.L. College of Engineering Autonomous in 2006 by UGC, and was declared as a Deemed to be University in 2009 by UGC, MHRD Govt. of India. In 2012 as a Deemed to be University, the institution was accredited by NAAC with A Grade and later in 2018, was re-accredited by NAAC with A++ grade. In 2019 UGC, MHRD declared this institute as Category I Institution.

About the Civil Engineering Department:

The Department of Civil Engineering was established in the year 1980 with an intake of 60 students and 5 Faculty as part of K. L. College of Engineering. The department has been successful in producing excellent and well-trained graduates. Today we have 590 Students (UG & PG) and 45 faculty members drawn from premium institutes throughout India, out of whom 5 Professors, 10 Associate Professors and 30 Assistant Professors. The Department is offering Courses for Undergraduate program in Civil Engineering, Post graduate Programs in Structural Engineering, Construction Technology and Management, Energy and Environmental Technologies, Geo-Informatics and Geotechnical Engineering. The department offers Ph. D in different specialization of Civil Engineering. The department is actively involved in research and consultancy with more than 500 Scopus Indexed Publications in the last 5 years.



About the FDP:

Construction Technology management refers to the discipline of overall planning, coordination, and control of projects from beginning to completion. This gives the students scientific principles involved in construction, an understanding of the behaviour of various knowledge management areas, such as scope, schedule, cost, quality, safety, resources, sustainability etc., Construction technologists should have good knowledge about various concepts, like Lean Construction, Building Information Modeling (BIM), Robotics and Automation, and Construction methods and technologies to ensure meeting the customer value. The latter technologies are in the nascent stage of adoption in India and world-wide. Yet to understand the multifarious applications of construction technologies to improve the construction management functions. To fill this gap, the Department of Civil Engineering, K L Deemed to be University organising this FDP along with industry experts, academicians, scholars, and consultants to address the gap. Practicing Engineers, construction consultants, faculty, research scholars, PG and UG students can attend the program.

Registration Link: http://tiny.cc/n63osz FDP Link (MS Teams): http://tiny.cc/h63osz







Course Content:

Theme 1: BIM and Lean

Lean in Construction (Introduction, Lean concepts, RepairCo Game, Challenges in Adoption); Technology adoption in Construction Industry (Theory in construction management); BIM - An overview (BIM, BEP, advantages/uses, challenges)

Theme 2: Finance and Contracts

Relationship between Contractor and Sub-contractor (Questionnaire survey; SPSS); Project risks and flexible contracts (Uncertainty, Flexibility, Real Options Analysis); Megaproject management

Theme 3: Sustainability

Sustainable construction - Primer (Overview of sustainable construction, Three pillars with focus on Environment in construction industry, Measurement); Sustainable construction - Global perspective (Global perspective, Indicators, SuRE, Intelligent sustainable design, and PPP for sustainability); Sustainable construction materials, technologies and product performances

Theme 4: Planning and Scheduling

Construction Project Scheduling: Best Practices, Tools and Techniques (Project Controls, Critical Path Method (CPM), Precedence Diagram Method (PDM), Construction Project Schedule, Baseline); Construction Labour Productivity (Measurement Techniques at various levels, Benchmarking, Schedule Management); Workforce management challenges in Indian construction projects (Socio-economic background of Indian construction workforce, Issues with respect to skills and productivity, Ways forward for effective management of workforce)

Theme 5: Safety & Building Science (incl. robotics & automation)

Building and its influence on occupants; Modern Solutions for Construction Safety Management (Construction Safety, IoT Applications, VR-Based Safety Training); Construction Site Accidents - A critical appraisal; Automation in Construction (Trends in Robotics and Automation in construction)

Theme 6: Quality (incl. methods)

Total Quality Management (Overview and Industry level examples of TQM, QA & QC implementation); Quality audit in construction (Third party quality audit in residential projects); Challenges in Underground Metro construction; Construction methods and technologies for low cost housing (Low cost housing, alternative technologies of construction, overview of these technologies)



MC: Mr. P. Mohan Chandra

Department of Civil Engineering

Schedule of One Week Online FDP on

Construction Technology and Management - A Bird's-eye view

During 24th - 29th August, 2020

Day / Timing	9:30 AM- 10:30 AM	10:30 AM- 11:30 AM	11:30 AM - 12:30 PM	12:30 PM - 1:30 PM	1:30 PM- 2:30 PM	2:30 PM - 3:30 PM	3:30 PM - 4:30 PM
Aug 24 MON	Lean in Construction - Introduction & Concepts SMS		Construction Site Accidents - a Critivcal appraisal BV	Total Quality Management SSM		Megaproject Management BM	
Aug 25 TUE	Sustainable Construction – Primer MC		Technology adoption in Construction Industry VM		LUNCH BREAK	Sustainable Construction Materials, Technologies, and Product Performances RVR	
Aug 26 WED	Building Information Modeling - An overview SS		Relationship between Contractor and Sub-contractor SKR			Automation in Construction KSR	
Aug 27 THU	Building and its Influence on occupants SSR		Project Risks and Flexible Contracts MKP			Challenges in Underground Metro Construction BG	
Aug 28 FRI	Quality Audit in Construction VE	Modern Solutions for Construction Safety Management VKR	Sustainable C - Global pe RKF	rspective		Construction N Technologies for Lo	ow Cost Housing
Aug 29 SAT	Construction Project Scheduling: Best Practices, Tools and Techniques PS		Construction Labour Productivity DKD			Workforce Management Challenges in Indian Construction Projects SL	

Certificate will be provided on the successful completion and submission of theme-wise mind-map

SMS: Ms. S. Manna Simon BV: Dr. Balakumar Venkatraman RKHK: Mr. Rakshith Komalan H K SS: Ms. Sreelakshmi S RVR: Dr. Rahul V. Ralegaonkar KSR: Ar. K. Sundararaman VM: Mr. Vinay Mathews PS: Mr. Purushothaman Srinath SSM: Mr. S Shanmugaraj MKP: Mr. Manu K Poulose DKD: Dr. Karthik Dasari VE: Mr. Vetriselvan Elangovan SKR: Dr. B Sudheer Kumar Reddy SL: Mr. Santhosh Loganathan BG: Mr. Boopathi Gnanavelu PT: Mr. Pavankumar Tadepalli BM: Mr. Balasubramani Mahesh SSR: Mr. S Shriram

VKR: Mr. Varun Kumar Reja