

DEPARTMENT OF  
CIVIL ENGINEERING

# TIMES OF CIVIL'21

DECEMBER 2021

## DEPARTMENT VISION

To be a fountain head of quality education delivering civil engineers empowered with core knowledge, skill and personality who can lead a sustainable society.

## DEPARTMENT MISSION

- To develop civil engineers of high caliber and technical skills through quality education, and industry exposure to serve their surroundings with pride.
- To inculcate a creative mind in students and to build-up their inborn technical talents through additional skill development programmes.
- To provide knowledge based consultancy services to the community in all areas of civil engineering.
- To create competent civil engineers who are capable of upholding ethical values and principles of sustainable development to face the challenges of future.

## MESSAGE FROM HoD



The Department Of Civil Engineering established in 2012 is one of the most dynamic departments of Musaliar Institute of Technology.

It gives me immense pleasure to lead the Department of Civil Engineering, alongside a dedicated team of talented individuals. Our objective is to prepare students for a successful career in industry, research and academics to meet the ever growing needs of the society at large, through hands on learning in classes, internship, leaderships in students, clubs, e-learning and others out of class, experiences that complement the class room learning, students evolve to be well rounded professional, through a well designed mentor mentee scheme, each student is guided and encouraged to give their best in academics, secure good and relevant jobs and participate in co-curricular activities

The department has well qualified and dedicated faculty and they are encouraged to participate in faculty department program, and workshops through an efficient support system. Our technical supporting staffs is unique in their own way. Students, as well as visitors find them very friendly amicable and skilled.

The department updates its achievements and wishes to publish all the activities for 2020- 2021 through this newsletter "Times of Civil"

May God Almighty bless every one with courage and wisdom to succeed in all.

**Dr Bushra. I**

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## PROGRAMME EDUCATIONAL OBJECTIVE (PEOs)

PEO 1: Graduates will be actively engaged in a professional career as a civil engineer or pursuing advanced study.

PEO 2: Graduates will understand professional practice issues and demonstrate a commitment to professional licensure and continuing education.

PEO 3: Graduates, will be guided by the principles of sustainable development and global interconnectedness, will understand how civil engineering can enhance the society and the environment.

## Staff Editors

- Athira Lakshmi A
- Soniya Sony



# TIMES OF CIVIL'21

## FACULTY TRAINING PROGRAMS

**Musaliar**  
COLLEGE OF ENGINEERING AND TECHNOLOGY  
Musaliar College P.O., Pathanamthitta, Kerala, India  
Approved by AICTE and Affiliated to APJ Abdul Kalam Technological University

**NAAC**  
Accredited Institution

**MIRIPG**  
MUSALIAR RESEARCH PROMOTION GROUP

**UpSkills**  
Research Made Easy

Phase -I | Workshop Series by  
Musaliar Research Promotion Group  
25-31 MARCH, 2021  
Hosting Departments: ECE, CE, CSE, ME, MBA

Sessions by:

**Dr. Shan M Assis**  
Associate Professor & HOD, ME

**Dr. Teena Joseph**  
Associate Professor & HOD, CSE

**Prof. Vinod K. Raju**  
Assistant Professor, MBA

**Dr. Renjith Thomas**  
Associate Professor, ECE

Convener: Dr. A. S. Abdul Rasheed  
Chief Coordinator: Prof. R. Jayaprasad  
Coordinators: Dr. Shan M Assis / Dr. Renjith Thomas

**INTERNAL QUALITY ASSURANCE CELL (IQAC), MCET**

### Professional ethics in construction industries

Date:31-03-2021

This FDP was designed to help faculty members formulate their own research initiatives paying keen focus to each stage of the research process. The emphasis of this workshop was on how to conduct research. In order to fulfil the intent of research and reach an appropriate conclusion, a researcher must understand the fundamentals and have a core concept. The workshop outlined the steps involved in conducting a literature review, including setting goals, collecting data, analysing it, and eventually framing it into a research paper. It is essential to collect, analyse, and scientifically document data in order to undertake high-quality research and write good research papers. For high-quality research, the ability to draw logical conclusions, backed by appropriate research tools and reference citations, is crucial. Academicians were given this opportunity by the Musaliar Research Promotion Group to improve their research skills and gain a better understanding of methodologies.





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## STUDENT PUBLICATIONS

- **Design and Analysis of Flyover**, Abhijith S, Aparna B Lal, Joseph Samuel, Sarath S, International Journal of Engineering Research & Technology (IJERT).
- **Impact of sand mining on Periyar River basin**, Abiah Alex, Divya S Anil, Jyothish Kumar, Sarath R Sasi, International Journal of Engineering Research & Technology (IJERT).
- **Eco-Friendly Light Weight Concrete Using PET Plastic Aggregates**, Anandu R, Anila Babu, Arja V Nair, Nayana Prasad, International Research Journal of Engineering and Technology (IRJET).
- **Planning of Flyover : A Solution for Traffic Congestion At Kayamkulam - Haripad Road**, Abhijith S, Aparna B Lal, Joseph Samuel, Sarath S, International Journal of Engineering Research & Technology (IJERT).
- **Elevated Highway: A solution to the Developmental Problems in Pathanamthitta**, Anandhu R Pillai, Anaswar Das H, Pavishi P, SenuDaison, International Journal of Engineering Research & Technology (IJERT).
- **Floating concrete using thermocol beads and egg shell powder**, Arya V S, Anagha M Babu, Devika A, Hashim Huzzian, International Research Journal of Engineering and Technology (IRJET).



# TIMES OF CIVIL'21

## ACTIVITY ROUND UP

**Musaliar** NAAC  
DEPARTMENT OF CIVIL ENGINEERING ORGANIZES  
**WEBINAR**  
ON  
"Trending Careers After Civil Engineering"  
Aug 8, 2020 | 10:30 AM - 12:00 Noon  
Participants will be provided with E-Certificate  
Prof. Dr. K.A. ABUBAKER  
Chairman, Baker Associates & Consultants, Baker Academy for Science and Engineering - Kochi  
**FREE REGISTRATION**  
REGISTER NOW  
For Civil Engineering Students & Graduates  
Link : <https://forms.gle/TAoE2H4rNTxJWGS5>  
Platform used: Google Meet

### One day webinar on trending Careers after Civil Engineering.

A webinar on the topic "Trending Careers after Civil Engineering" was conducted by department of civil engineering on 5-8-2020. The resource person was Dr. K A Aboobaker, Chairman, Bakers Academy for Engg & Technology, Kochi. The session started at 10:30 am and concluded at 12:20 pm. The webinar was open to all civil engineering aspirants, faculty, students and graduates and the platform used was google meet. From the total of 313 registration received, about 168 participated the webinar. Dr. Leena V P, HoD, Civil department was the program convener. Mrs. Shamila Habeeb, Assistant Professor (CE) and Prof. Bismi M Buhari, Assistant Professor (CE) were the program coordinators. The webinar had brought into light all the possible opportunities for civil engineers. The virtual tour conducted during the webinar through the construction sites was a new experience for all the participants. The e-certificate for the participants was distributed through their registered email.

### Short term training programme on Autocad

A 5 days term training program on AutoCad was conducted by department of Civil Engineering for third semester students (2019-2023 batch). Training was conducted for familiarizing the drawing and drafting software AUTOCAD which is one of the most important software in practical application field. Workshop was from 30-11-2020 to 04-12-2020 at Civil engineering computer lab. A total of 30 students participated in workshop. Training was under the guidance of NEXUS technical solution, CAD training centre, Chengannur, Pathanmathitta with two trainers. The programme was inaugurated by Prof. Leena V P, HoD, Department of Civil Engineering, Musaliar College of Engineering, Pathanamthitta. At the end of section feedback forms were collected and certificates were distributed by the Manager Mr. Suresh Kumar, NEXUS technical solution, CAD training centre, Chengannur, Pathanmathitta.

**Musaliar** Musaliar College P.O. Pathanamthitta - 686552 Kerala, India NAAC  
DEPARTMENTS OF  
**CIVIL & MECHANICAL ENGINEERING**  
Jointly Organize  
FIVE DAYS  
SHORT TERM TRAINING PROGRAMME  
ON  
**AutoCAD Essentials**  
Exclusively for Third Semester B.Tech students  
Time & Date : 30 NOV - 4 DEC, 2020  
03.00 PM - 05.00 PM  
Coordinators : Prof. Muhammed Murshid A  
Department of Civil Engineering  
Prof. Soumyalata D  
Department of Mechanical Engineering



# TIMES OF CIVIL'21

## ACTIVITY ROUND UP



The poster is for a webinar titled "COASTAL AND OFFSHORE STRUCTURES" organized by the Department of Civil Engineering at Musaliar. It features three resource persons: Dr. (Adv.) V. V. Ratheesh Kumar KHAS (July 16), Lakshmi Sathyan P (July 17), and Dr. Jayakumar (July 18). The date is July 16 to 18, 10:30-12:00. It includes contact information, a registration link, and a "REGISTER NOW" button.

**Musaliar** NAAC  
DEPARTMENT OF CIVIL ENGINEERING  
**WEBINAR**  
ON  
"COASTAL AND OFFSHORE STRUCTURES"  
DATE : JULY 16 to 18 | 10.30-12.00  
E-Certificate Will Be Provided To All The Participants Registration Through Link  
Resource Persons  
Dr. (Adv.) V.V.RATHEESHKUMAR KHAS Associate Professor NSS Law College Kollam  
LAKSHMI SATHYAN P Junior Engineer - Offshore Structures  
Dr. JAYAKUMAR Managing Director & CEO Vizhinjam International Seaport Limited  
Contact : 8129089420, 8129505859 Email id : ashrafmhammed4@gmail.com  
Platform used Google Meet  
Registration Link <https://forms.gle/G5Pjw635xwRTH3A>  
**REGISTER NOW**

### Coastal and offshore structures.

A webinar on the topic " Coastal and offshore structures was conducted by department of civil engineering on 16/7/2020 to 18/7/2020. The resource person were for day 1- Dr. (Adv) V. V. Ratheesh Kumar, KIHAS, Associate Professor, NSS Law College, Kollam. For day 2 – Mrs. Lakshmi Satyan P, Junior engineer, offshore structures. For day 3– Dr. Jayakumar, Managing Director & CEO, Vizhinjam International seaport LTD. The webinar was open to all civil engineering aspirants, faculties, students and graduates and the platform used was google meet. From the total 198 registrations received, about 138 participated the webinar. Mrs. Leena V P, HoD, Civil department was the program convener Mr. Muhammed Ashraf A, Assistant Professor (CE) and Mrs. Bismi M Buhari, Assistant Professor (CE) were the program coordinators. The webinar had brought into light all the aspect about offshore structures. The e- certificate for the participants was distributed through their registered email.

### Scope of Engineers in BIM

The Department of Civil Engineering, MCET in association with Core Institute of Technology has organized a one days online workshop on "Scope of Engineers in BIM " on 15 June 2021 for the students of Musaliar Engineering . 38 students attended the workshop. The completely hands on workshop was handled by the resource persons from Core Institute of Technology.

#### About the workshop

The design communication is gradually being changed from 2D based to integrated 3D digital interface. A one day Building Information Modeling (BIM) online workshop is designed to quickly get the students to understand that the buildings will be built virtually before they get built out in the field, where data models organized for complete integration of all relevant factors in the building lifecycle which also manages the information exchange between the AEC (Architects, Engineers, Contractors) professionals, to strengthen the interaction between the design team. By the end of the session, students was be able to understand Scope of Engineers in BIM. The workshop on Building Information Modeling (BIM) aimed to provide the participants with BIM application in India and this application is widely accepted throughout the industry in many countries for managing project information with capabilities for cost control and facilities management. Participants learned the BIM potentials when used in the field to better communicate and integrate construction information across different trades, allowing for efficient work processes and better decisions and the deployment of the model to support planning, scheduling and tracking of the job site operations in India.



The poster is for a live webinar titled "SCOPE OF ENGINEERS IN BIM" organized by the Department of Civil Engineering in association with Core Institute of Technology. It features a 3D architectural rendering of a building. The date is 15th JUNE, 03:00 PM | 2021. It includes a registration link and a "Click Here for online Registration" button.

**Musaliar** NAAC  
Department of Civil Engineering in association with  
**CORE** INSTITUTE OF TECHNOLOGY  
15th JUNE 03:00 PM | 2021  
**Live Webinar**  
**SCOPE OF ENGINEERS IN BIM**  
Click Here for online Registration  
e-Certificate added with verification number.



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## ACTIVITY ROUND UP



### Pravritham

Pravritham 2k21 is an event organized by Department of Civil Engineering. This is a contest organized exclusively for students of Musaliar College of Engineering and Technology in context of Environmental Day celebration. Essay writing, cartoon, poster making and photography were the events under Pravritham 2k21.

### OBJECTIVE:

In the wake of covid-19 apart from the basic curriculum it is important to stay focussed on co-curricular activities too. To eradicate stress of onlineclasses the event was organised. The program was intended to improve the curricular, co curricular and organisational skills of the upcoming engineers.

All the participants were awarded with E-certificates for participation. Then a whole class meeting was arranged to discuss the conduct of the event so that the mistakes highlighted may be corrected in future.

### Alumni Interaction- Talk on "Career opportunities of Civil Engineering Graduates in Middle East"

Department of Civil Engineering, Musaliar college of Engineering organized an Alumni Interaction on "Career opportunities of Civil Engineering graduates in Middle East". The session was delivered by Mr. Shifin M Salam, a student of Batch: -2006 - 2010. The session was attended by 7th semester students of the Civil Engineering department. Mr. Shifin M Salam completed B.Tech (Civil Engineering) in 2012 and served industry for about a year and half in India He is currently working as Project Civil Inspector, Tatweer Petroleum, Bahrain.

He talked about his academic and career experiences. He also recalled the campus life and emphasized the value of site visits, internships and training while interacting with them. He encouraged students to participate in co-curricular activities and motivated them to remain focused in the current scenario and make best possible use of their time. Given that the Middle East is one of the most competitive parts of the world when it comes to industry, it's likely that we'll see increased innovation as the years go on, making it the perfect place for civil engineers looking to develop their career. He also explained the increased civil engineering career opportunities in the Middle East and How civil engineering is growing in the Middle East He also added that civil engineers in the Middle East are well-paid and respected, with good job security and prospects for career progression. He thanked all the faculty members for the support extended while was here and also emphasize on the point that civil engineering will continue to grow in the Middle East, making it a fantastic place for young engineers looking to gain experience, or more established engineers looking for their next challenge





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## INDUSTRIAL VISIT



### **Industrial visit to Idukki Dam**

The Department of Civil Engineering has successfully organized the Industrial Visit to Idukki Dam on 12th May 2019 for BTech final year students. The visit was organized with prior permission and guidance of Dr. Leena V S Head of the department. The trip was coordinated by and accompanied by Prof. Arun Raj, Assistant Professor. The student coordinators Anandu R Pillai and Muhamad Naif. S S have done the planning, management and ensured maintenance of discipline during the trip. The aim of visit was to get thorough insights of construction, working and maintenance of dams. Students were provided valuable knowledge by the Engineer, Irrigation Department . With the help of a 3D model of dam, students were explained the details of structure of dam, instruments used to monitor health of dam, problems and future challenges of dam. The useful life of dam with respect to the life of reservoir and concrete was also discussed. At Idukki Dam, the students were given permission to visit the foundation gallery of the dam to get more detailed understanding of the structure, canal intakes and seepage measuring instruments. The trip ended at Power House where students explored the working of turbines. The Industrial visit was a very knowledgeable experience for all the students which provided them insights of the real life implementation of the concepts studied in classroom



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## INDUSTRIAL VISIT



### Industrial visit to Kollam Harbour

The Department of Civil Engineering had organized one day industrial visit to Kollam Harbour so as to make students familiar with industrial environment and to apply their practical knowledge about Docks. The main purpose of the visit was to acquaint students with various activities, functioning, and adopt the knowledge about dock and different ports, so it is very convenient to visit all the practical and design data in real time work environment. 54 students and two teaching faculty namely, Dr Teena HoD and Prof. Bismi from Civil department volunteered for the visit. The students experienced operations like how the containers were moved from the shipping vessel to various areas of ports. They personally visited different restricted areas like administration building, container checking area, etc and learned different terminologies used in port areas.

The students were given an overall tour of the port, witnessing the terminals and loading & unloading operations from cargo vessels. They were then taken to the container terminal. The students apart from getting an overall exposure to the container terminals were given detailed overview of the operations of containers, planning of space requirements, loading and unloading intricacies in practice, ship balancing techniques, inspection etc. The required safety and quality aspects in handling materials were explained in detail by Mr. Sheik Pareeth, IAS, Managing Director, Coastal Development and Management. Further the students were taken around on a field visit to the terminal and were able to observe firsthand what was told to them earlier. The students could appreciate the level of understanding given and appraised the hosts of their gratitude for the knowledge gained. The company personnel also had appreciated the learning interest shown by our students

### Objective of the Industrial Visit

· The plant visit was organized with the objective of minimizing the gap between industry and academics by giving students practical exposure in industry.

### Outcome of the Industrial Visit

· The outcome of this plant visit was student got to see the things practically which they have studied in theory and got clarity of concept

### INSTITUTE VISION

To develop into a world class pace setter with distinct identity and character to meet the demands of a changing global technological competitive scenario with a societal thrust.

### INSTITUTE MISSION

- To impart quality Education in Engineering & Management by providing state of the art teaching learning methods.
- To foster innovation in Technology and its application for meeting global Challenges.
- Inculcate global awareness, communication skills, team building and ethical values.
- To collaborate with industry and R & D organization for developing knowledge and sustainable technologies.
- To facilitate Research and Innovation in various fields of Engineering and Management.

