



**MANGALORE INSTITUTE OF TECHNOLOGY & ENGINEERING**

*Accredited by NAAC with A+ Grade, An ISO 9001: 2015 Certified Institution*

*(A Unit of Rajalaxmi Education Trust®, Mangalore - 575001)*

*Affiliated to V.T.U., Belagavi, Approved by AICTE, New Delhi.*

**Mijar, Moodabidri – 574225, Mangalore Tq, D.K Dist., Karnataka**

**Department of Civil Engineering**

# **ASSOCIATION OF CIVIL ENGINEERING STUDENTS (ACES)**



**ANNUAL REPORT**  
**Academic Year 2022-23**



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### **Department of Civil Engineering**

### **ACES – Committee List**

<b>Name</b>	<b>Responsibility</b>
• <b>Dr. Ganesha Mogaveer</b>	- Head of the Department
• <b>Dr. Jayaprakash M C</b>	- ACES Faculty Coordinator
• <b>Mr. Waseem Ahmmed S N</b>	- President
• <b>Mr. Vishnu</b>	- Vice President
• <b>Mr. Basavaraj B Y</b>	- Secretary
• <b>Mr. Sharath Raj S R</b>	- Treasurer
• <b>Mr. Swaraj Adyanthaya</b>	- Cultural Coordinators
• <b>Mr. Sachin Devadiga</b>	- Sports Coordinator
• <b>Mr. Ashwin Poojary</b>	- Student Placement Coordinator



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## **Department of Civil Engineering**

### **Preamble**

Association Civil Engineering Students (ACES) it is one of the non-profit association formed for the benefit of Civil Engineering students. Under the flagship of the Department of Civil Engineering, MITE, every year various technical talks from the industry persons and professors from IITs, IISc& NITs, and also workshops, conferences, technical tours, industry visits, sports, etc are conducted under this forum. Apart from all these finishing school programs for the final year, students will be organized every year as a pre-employment training program to bridge the gap between industry and academia. ACES believes that the true potential of students can be realized by encouraging them to participate in various activities including participation in innovative project competitions and acknowledging their achievements



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### DEPARTMENT OF CIVIL ENGINEERING

#### ACES Activity List of 2022-23

Sl. No.	Event	Date	Resource Person	Topic
1	Hands-on Training	09/09/2022	Ms. Swapna S A	Non-Destructive Testing' of Concrete Structure
2	Techno Week 2022 – Technical Talk	27/09/2022	Er. Eknath Dandakeri	Pre Execution Errors Handling and Solving'
3			Er. Sudhir Shetty	'Basic and Handling of Ready-Mix Concrete
4	Technical Talk	15/11/2022	Er. Anil V Baliga	Civil Engineers and their Personal Finances
5	Industry Visit	01/12/2022 to 03/12/2022	Mr. Benny	Sewage Treatment Plant
6	Site Visit	21/12/2022	-	NHAI Construction Site Visit
7	Industry Visit	27/06/2023	Er. Anand Kumar S K	Master Plannery and Dwaraka Constructions Puttur
8	Exhibition	19/08/2023	-	Working Models Based on Hydraulics Pressure

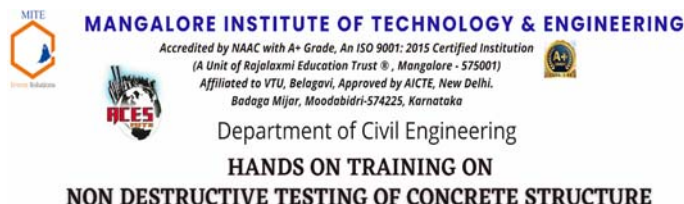
## Department of Civil Engineering

### Hands-on Training on 'Non-Destructive Testing' Of Concrete Structure

by Ms. Megha Mayuri B G

Department of Civil Engineering, MITE

Date: 9<sup>th</sup> September 2022



Department of Civil Engineering organized a Hands-on Training on 'Non-Destructive Testing' of Concrete Structure on 9<sup>th</sup> September 2022 for 4<sup>th</sup> year Civil Engineering students.

The following are some of the major advantages of conduction of Exhibition

1. The hands-on training was a part of the necessary learning of internship to enable the students to conduct the NDT and to analyse the same in real time projects.
2. There was a presentation on Types of NDT and their advantages and disadvantages to create a better awareness among interns about the choice of NDT's to be used accordingly.
3. The hands-on training gave an opportunity to each student to individually work with the Rebound Hammer, to collect data and analyse the data to plot the graph and to arrive at a conclusion on the strength of the concrete tested.
4. The skill of handling and using a Rebound hammer equipment was imparted to students

The hands-on training enabled the students to work individually and in teams and students learned a new skill in depth and were able to carry on the NDT test using Rebound hammer.



Students were using the Non-Destructive Testing instrument in the field



## Department of Civil Engineering

### Technical Talk on 'Pre Execution Errors Handling and Solving'

by Er. Eknath Dandakeri,

Structural Engineer, Sigma Consultants, MANGALURU

**Date: 27<sup>th</sup> September 2022**



A "Techno Week 2022" was jointly organized by Department of Civil Engineering and ACCE (I), Mangalore in association with RAMCO Cements Ltd., on the occasion of "Techno Week" to mark the occasion of birthday celebrations of Bharath Ratna Sir. Mokshagundam Visvesvaraya on 27<sup>th</sup> September 2022.

Er. Eknath Dandakeri has explained his experience with case study on "Pre Execution Errors Handling and Solving" and its care full execution in the field of Civil Engineering projects. He has given idea on

any of engineering projects a design error is an instruction (or lack of instruction) in the plans and specifications that, if followed by the contractor, will require replacement or correction at a cost (or result in a construction failure). He also discussed about the various causes and effects of cracks in buildings. He also mentioned about the different types of cracks appearing in the structures.

Er Eknath Dandakeri, Structural Engineer, Sigma Consultants, MANGALURU, has done his Civil Engineering from NIE, Mysuru, M.Tech from NITK, Surathkal, and Theses at Structural Engineering Research Centre, Chennai. Worked as engineer for various Engineering firms, and later started working as a structural consultant for 'Sigma Civil and Structural Consultants'-Mangaluru. He is active member of ACCE (India), Indian Society of Earthquake Technology, and Indian Concrete Institute.



Er Eknath Dandakeri, Structural Engineer, Sigma Consultants, MANGALURU, delivered a talk on "Pre Execution Errors Handling and Solving"

## Department of Civil Engineering

### Hands-on Training on 'Basic and Handling of Ready-mix Concrete'

by Er. Sudhir Shetty,

Director, IRC Concretemix India Pvt. Ltd, MANGALURU

Date: 27<sup>th</sup> September 2022



A "Techno Week 2022" was jointly organized by Department of Civil Engineering and ACCE (I), Mangalore in association with RAMCO Cements Ltd., on the occasion of "Techno Week" to mark the occasion of birthday celebrations of Bharath Ratna Sir. Mokshagundam Visvesvaraya on 27<sup>th</sup> September 2022.

Er. Sudhir Shetty has explained his experience with case study on "Basic and Handling of Ready-mix Concrete" and its care full execution in the field of Civil Engineering projects. He has given insight focus on advanced innovative cost effective materials for construction purposes and dealt on their properties,

advantages and how well readymix concrete can be used in construction. Quality control of ready mix concrete is important as it has to be mixed and transported to different locations. Batching, mixing, transportation and handling of ready mixed concrete is discussed. While Ordering Ready Mixed Concrete. Following Points is to be specified: Coarse aggregate size, Slump, Air content, Basis for proportioning,

Er. Sudhir Shetty, Director, IRC Concretemix India Pvt. Ltd, MANGALURU, has done his Civil Engineering from Deccan college of Engineering, Hyderabad. He obtained a course from City & Guilds London institute for Readymix concrete technology in the year 2010. At present he is a Director of IRC Concretemix India Pvt Ltd. Mangaluru and also proprietor of NG Associates Managlore, a civil consulting and civil contract firm.



Er. Sudhir Shetty, Director, IRC Concretemix India Pvt. Ltd, MANGALURU, delivered a talk on "Basic and Handling of Ready-mix Concrete"



## Department of Civil Engineering

### Inauguration of ACES Activities 2022-23 & Technical Talk Report

by Er. Anil V Baliga

Proprietor, Manjeshwara Techno Trades, MANGALURU

Date: 15<sup>th</sup> November, 2022



ACES (Association of Civil Engineering Students) is a student's of civil engineering association, is one of the non-profit association formed for the benefit of Civil Engineering students. Under the flag ship of Department of Civil Engineering, every year in the beginning of the odd semester. ACES activity inauguration is formally organizing by the newly formulated office bearers of the academic year 2022-23. Followed by a technical talk had been arranged on “Civil Engineers and their Personal Finances” by Er. Anil V Baliga, Proprietor, Manjeshwara Techno Trades, MANGALURU.

Anil V Baliga has enlightened his experience with case study on “Civil Engineers and their Personal Finances” and its importance in the day to day life and Civil Engineering field. He has given hint on any of engineering projects that the team holds on to, must have a budget to stick our personal finances to from monthly net income, think about which of your expenses are “needed” (rent, food, commuting, utilities), which are “wanted” (dining, travel, subscriptions), and what will go to savings/investing.

Er. Anil V Baliga is a Proprietor, Manjeshwara Techno Trades, MANGALURU, completed B.E. (Civil Engg.) in NMAM Institute of Technology, Nitte and M.Tech. (Structural Engg.) in M.I.T., Manipal. From 1998-2008 he worked with Vimal & Anil at Mangalore as a Trainee Structural Design Engineer. Since 2008, Running a business MANJESHWAR TECHNO TRADES at Yeyyadi, Mangaluru.



Er. Anil V Baliga is a Proprietor, Manjeshwara Techno Trades, MANGALURU, delivered a talk on “Civil Engineers and their Personal Finances” on the occasion of ACES Students Activity Inauguration 2022-23



## Department of Civil Engineering

### AICTE Activity Program

**Date: 1<sup>st</sup> to 3<sup>rd</sup> December, 2022**



AICTE Activity program, which was made compulsory by All India Council for Technical Studies (AICTE), GoI for technical education and to promote development in the country in a coordinated and integrated manner by the upcoming generation. The program was held from 1<sup>st</sup> December 2022 to 3<sup>rd</sup> December 2022.

Students has been visited to Sewage Treatment Plant, Solid Waste Processing & Disposal and Animal Trust Care from 1<sup>st</sup> December 2022 to 3<sup>rd</sup> December 2022 for three days. From this visit students came to know the thorough

study about the introduction, principle, design, initial & final parts in sewage treatment plant. Mr. Benny was a supervisor in the Solid Waste Processing unit, who explained the various processes involved in management of the municipal wet and dry waste at the facility. In the Animal Care Trust, is the shelter for animals who need immediate first aid and a hospital for sick animals. The volunteers will work day and night for the betterment of the sick animals, in reuniting lost pet's with their owners.



Department of Civil Engineering Students of 2<sup>nd</sup> and 3<sup>rd</sup> year were visited Sewage Treatment Plant, Solid Waste Processing & Disposal and Animal Trust Care from 1<sup>st</sup> to 3<sup>rd</sup> December 2022

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## Department of Civil Engineering

### NHAI Construction Site Visit

Date: 21<sup>st</sup> December, 2022



As a part of the activities under the Memorandum of Understanding between National Highway Authority of India (NHAI), New Delhi and Mangalore Institute of Technology & Engineering Moodabidri, a one day construction site visit has been organised by the Department of Civil Engineering on 21<sup>st</sup> December 2022 in the National Highway-169 stretch of Kulashakar to Sanoor. Students have understood the basic principles and construction techniques adopted in the construction of underpass which is located near MITE College campus. An exposure on RCC detailing along with the execution technique and precautionary measures

to be taken also been explained to the students. It has been clearly explained about the purpose of Construction of underpass and precautions to be taken in the design as flyovers pass above this underpass and awareness has been given that in case of any improper design this underpass may collapse leading to a lot of losses in terms of lives and investment.



Department of Civil Engineering Students of 2<sup>nd</sup> and 3<sup>rd</sup> year have visited National Highway Construction Site on 21<sup>st</sup> December 2022



## Department of Civil Engineering

### Industrial Visit to Master Plannery and Dwaraka Constructions Puttur

Date: 27<sup>th</sup> June, 2023



Department of Civil Engineering Students visited Master Plannery Industry at Nagara Puttur and Gokula Layout at Mukrampady constructed by Dwaraka Constructions Puttur. Master Plannery Industry has been dealing with various alternative construction materials, hardware's, sanitary products, paint, cement, steel etc. by reducing the overall cost of construction. Company focuses on producing precast concrete such as Hemp Crete, Recycled Materials, Ferro cement Slab, Fly Ash Bricks, Dome shaped,

Hyperbolic slab etc. Er. Anand Kumar S K addressed the Students regarding the importance of how the Practical knowledge bridges the gap between theory and real-world applications. Real-world projects often present unexpected challenges and complexities. Working with construction materials, understanding their properties, and knowing how to use them appropriately. Er. Anand Kumar SK also stressed on weightage of Practical exposure which indirectly helps the budding engineers to navigate local building codes, regulations, and finally address the requirements of client needs effectively, leading to improved client satisfaction and positive referrals. Students also visited Gokula Layout at Mukrampady Puttur. Er. Gopalakrishna Bhat proprietor of Dwaraka Constructions explained the Students regarding the about various Construction Techniques related to sizes of walls, columns, beams and quality check ness in site. Also during the visit students witnessed the establishment of the plinth level in relation to the ground, which is a critical step for ensuring proper elevation of the building. Students were made to Compare the under-construction house with the house plan might have prompted students to consider construction techniques and its challenges.

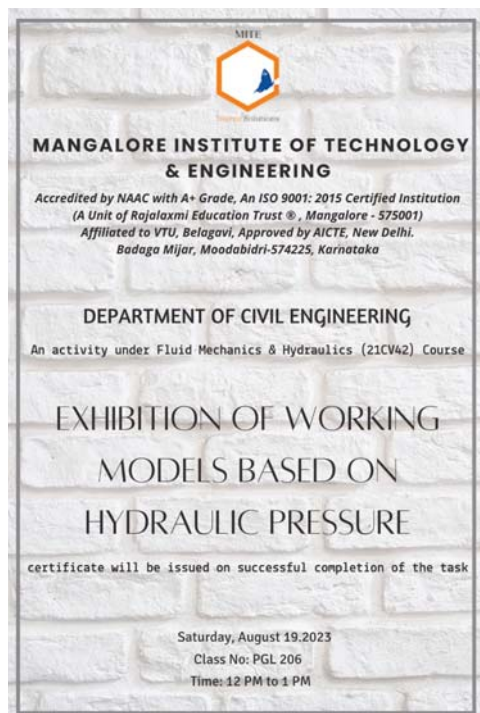


Department of Civil Engineering Students visited industry of Master Plannery and Dwaraka Constructions Puttur on 27<sup>th</sup> June 2023

## Department of Civil Engineering

### Exhibition of Working Models Based on Hydraulics Pressure

**Date: 19<sup>th</sup> August, 2023**



Department of Civil Engineering has organized a one day Exhibition of Working Models based on Hydraulic Pressure on 19th August, 2023 to enhance skill based learning for the 2nd year students. The exhibition is coordinated by Mrs Megha Mayuri.

The following are some of the major advantages and benefits of model Exhibition.

1. The exhibition was a part of Academic activity and all the models were working models based on Hydraulic Pressure
2. Students were able to understand, analyze and create a working model based on the given concept of Hydraulic pressure
3. There was a presentation and viva session in front of the judges to showcase their presentation skills
4. It was a teamwork consisting of two students in each group to develop team building ability
5. Exhibition was an interactive session with the students of other branches which helped in sharing of knowledge.



Department of Civil Engineering Students of 2<sup>nd</sup> year have Exhibited the Working Models Based on Hydraulic Pressure on 19<sup>th</sup> August 2023