



ANJUMAN-I-ISLAM'S
KALSEKAR TECHNICAL CAMPUS'S, PANVEL, NAVI MUMBAI
SCHOOL OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF CIVIL ENGINEERING

CONSTRO 2021-22

Magazine

2021-22 (June 2022, Volume 1)



Vision: To be the Most Sought-After Academic, Research & Practice-Based Department of Civil Engineering that Others would Wish to Emulate

Mission: Creating Exuberant Civil Engineering Professionals

We shape our buildings, thereafter they shape us.

Winston Churchill



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AIKTC TV



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From the President's Desk



All progress takes place outside the comfort zone!

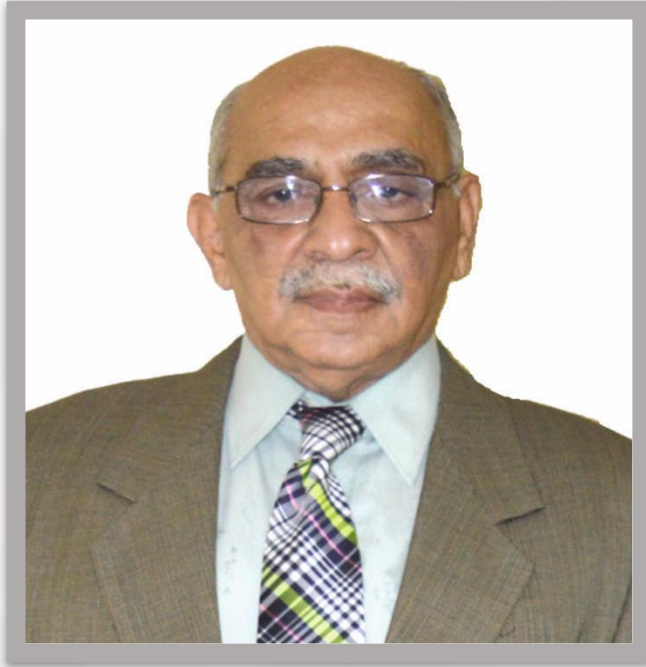
We proudly acknowledge the dreams of the stalwarts who were part of the freedom struggle of India, realizing the need of an education system during the British rule. Due to their far-sighted vision, Anjuman-I-Islam on behalf of its 97 institutions and one lakh ten thousand students, fulfils the educational requirement of the most underprivileged sections of the society today. We wish to expand the magnitude of Anjuman-I-Islam by providing education par excellence at lowest possible cost and ensuring that no student is deprived of education due to lack of finance. Although Anjuman is a Minority organization but it has remained as a true symbol of Secularism and National Integration.

At AIKTC, you will have the pleasure of experiencing quality education through its world class infrastructure and diligent faculties equipping you with the latest trends and practices of the industry to keep you going on the path of professional success. The college is NAAC accredited and facilitates for all kinds of government scholarships and financial aid to the eligible & deserving ones.

“The art challenges the technology, and the technology inspires the art.”
Do you wish to be an inspiring change maker???. If YES, then welcome to AIKTC.

Dr. Zahir I. Kazi
President,
Anjuman-I-Islam, Mumbai

From the Chairman's Desk



We are continuously upgrading our teaching-learning system by imparting innovative teaching methodologies both online and offline. During this ongoing pandemic, we have ensured excellent delivery of concepts by the faculties through online portals and special care is taken during practical hours through virtual laboratories. We keep ourselves in tune with the changing dynamics of the industry so as to develop time tested techniques, values and experiences. Our campus is accredited by NAAC and our next step is to get all our programs accredited by NBA for various research opportunities.

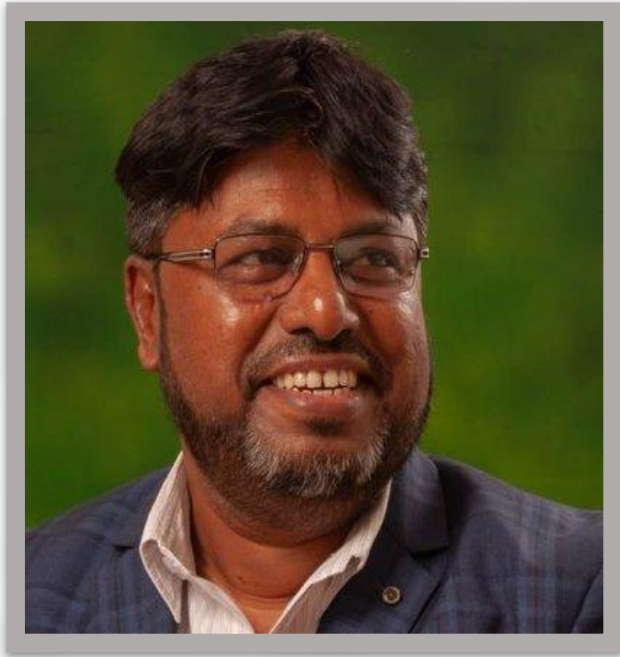
We enable every student to explore new realms of knowledge, skills, attitude and wisdom. In this campus, we produce knowledgeable technical professionals having right attitude, character and inspiring mind, thus making them lifelong learners. For this, we do all that is required to be done for you. By the time you complete your tenure in this campus, you get equipped to tackle every technological challenge or otherwise, with a view to provide solutions.

Wishing you highly rewarding academic years ahead and the most memorable stay on the campus.

“With You.... Till You Do Not Need Us – In Any Way”.

**Mr. Burhan Harris,
Hon. Executive Chairman, Board for Institutions in Navi Mumbai,
Anjuman-I-Islam, Mumbai**

From the Director's Desk



As the Director of Anjuman-I-Islam's Kalsekar Technical Campus (AIKTC), I am honored to lead an institution dedicated to multidisciplinary technical education since 2011. Our integrated campus offers programs in Architecture, Engineering, and Pharmacy, fostering innovation and excellence. At AIKTC, we emphasize experiential learning through state-of-the-art infrastructure and advanced technological tools, ensuring students gain practical knowledge both on-campus and virtually. Our faculty employ innovative teaching methods such as Outcome-Based Education (OBE), Activity-Based Learning (ABL), Project-Based Learning (PBL), Blended Learning, and Flipped Classroom techniques. These approaches nurture critical thinking, collaboration, and complex problem-solving skills. We also promote entrepreneurship, supporting students in launching start-ups through the AIKTC Incubation Center, contributing to Atma-Nirbhar Bharat. Our mission is to develop professionals aligned with industry, society, and humanity. We emphasize Universal Human Values (UHV), professional development, and the right mindset to empower students for success. I extend my heartfelt gratitude to our dedicated faculty, staff, and students for their commitment to excellence. Together, we continue to build a legacy of quality education and innovation for future generations.

Dr. Ramjan Khatik
Director,
AIKTC, New Panvel

“Self-examination, self-control, and self-confidence are essential for success.”

- Mokshagundam Visvesvaraya
(Indian civil engineer, administrator, and statesman)

From HOD Desk



A warm and sincere welcome to the Department of Civil Engineering at AIKTC, Panvel, Navi Mumbai. Civil Engineering is the backbone of infrastructure development, playing a pivotal role in shaping modern society. From small residential structures to large-scale projects like highways, tunnels, rail networks, and smart cities, civil engineers contribute significantly to nation-building. Our department offers B.E., M.E. (Construction Engineering & Management), and Ph.D. programs, ensuring a well-rounded education that blends theoretical knowledge with practical applications. Students gain expertise in structural engineering, geotechnical engineering, transportation engineering, water resources, environmental engineering, surveying, and engineering geology. We emphasize value-based education, fostering technical excellence, ethical responsibility, and leadership skills. Our goal is to shape competent and confident civil engineers who can handle real-world challenges with innovation and integrity. I am delighted to witness the release of this magazine, which reflects the dedication and enthusiasm of our students and faculty. On behalf of the department, I extend my sincere gratitude to the management, Director, Deans, HODs, and faculty members for their unwavering support and guidance.

Dr. Rajendra B. Magar
Head, Department of Civil Engineering

Editorial Board



Prof. Fauwaz Parkar
(Chief Editor)



**Prof. Hawelikar
Shaukeen**
(Co-Editor)

Student Coordinators



Farman Maldar



**Hussain
Poonawala**

"Editing is the essence of writing. I have spent more time editing than writing."

- Ta-Nehisi Coates (American author, journalist, and activist)

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Institute Vision

To be the most sought after Technical Campus that others would wish to emulate.

Institute Mission

Creating Exuberant Technical Professionals.

Department Vision

To be the Most Sought-After Academic, Research & Practice-Based Department of Civil Engineering that Others would Wish to Emulate

Department Mission

Creating Exuberant Civil Engineering Professionals

Mission Elements

- **M1:** To Implement the outcome-based education (OBE) model to conform to our belief “students learn what we teach”.
- **M2:** To encourage and upgrade teachers for innovative teaching skills, research and practice.
- **M3:** To provide necessary facilities, machinery, equipment, atmosphere, and ambience that would enable quality academics, research and practice.
- **M4:** To create an ecosystem for professional competition, lifelong learning and reward mechanisms.
- **M5:** To prepare and encourage students for societal welfare, higher studies, entrepreneurship, employment, research and innovations to become a complete human resource.

PEOs

- **PEO 1:** To prepare learners with sound foundation in the mathematical, scientific & engineering fundamentals.
- **PEO 2:** To prepare learners to use effectively modern tools to solve real life problems.
- **PEO 3:** To prepare learners for successful career in Indian & multinational organizations to excel in Postgraduate studies.
- **PEO 4:** To encourage and motivate learners for self-learning.
- **PEO 5:** To inculcate professional, ethical attitude, good leadership qualities and commitment to social responsibilities among learners.

AICTE-ISTE Sponsored Induction program

Event: 6 Days AICTE-ISTE Sponsored Induction / Refresher program on “Recent advancement in Environmental and Water Resources Engineering

Date: 29th December 2021

Resource persons: Dr. S K Ukarande

The screenshot shows a Zoom meeting window with a large presentation slide. The slide title is "6 days AICTE-ISTE Sponsored Induction/Refresher Program Recent Advancement in Environmental & Water Resources Engineering" with dates "29th December, 2021 to 4th January, 2022". The slide lists the following details:

- APPROVED BY:** AICTE (All India Council For Technical Education) and ISTE (Indian Society For Technical Education).
- ORGANISED BY:** Department of Civil Engineering, Arjuman-I-Islam's Kalsekar Technical Campus, New Panvel.
- Program Coordinator:** Dr. Rajendra Magar, Professor Emerit, CEITGG.
- Program Chair:** Dr. Abdul Razak Hossainji, Director AKTC, New Panvel.
- In the gracious presence of...**
- Chief Guest:** Prof. Vijay D. Vaidya, Executive Secretary, ISTE.
- Guest of Honour:** Dr. S K Ukarande, Associate Dean, Faculty of Science and Technology, IIT & Member of National Ex Council (ISTE).
- Guest of Honour:** Dr. V Jothiprakash, Professor ISTE.
- Mr. Burhan Harris:** Hon. Exe. Chairman, New Mumbai Board, AI.
- Dr. Zahir Kazi:** President, Arjuman-I-Islam.

The Zoom interface shows a grid of participants at the top and a list of participants on the right side.

The screenshot shows a close-up of a speaker in a Zoom meeting. The speaker is a man with glasses and a mustache, wearing a dark suit, white shirt, and a patterned tie. He is speaking into a microphone. The background is a purple wall with several white, spherical pendant lights hanging from the ceiling. The Zoom interface at the top shows the names of other participants in the meeting.

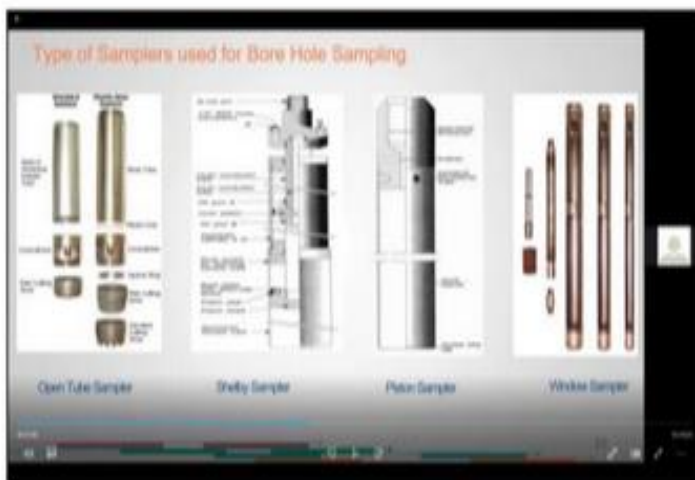
Expert talk on NDT Methods

Event: Expert lecture on “Non-destructive and Destructive Methods applied for Geotechnical Investigations”

Date: 9th April 2022

Resource persons: Sunit Kumar Banerjee [Business Line Manager (Land Site Characterisation), Furgo Geotech India Pvt. Ltd., Navi Mumbai]

Objective: To make students aware of the non-destructive and destructive methods applied for geotechnical investigations in the field



Expert talk on Environmental Clearance

Event: Expert lecture on “Non-destructive and Destructive Methods applied for Geotechnical Investigations”

Date: 22nd February 2022

Resource persons: Dr Dinesh Kumar Gupta, HOD-Civil, Govt. Poly., Bandra, Mumbai



Expert talk on Opportunities in Structural Engineering domain

Event: Talk by an Alumnus (2015 pass out) on topic “Opportunities in Structural Engineering domain”

Date: 22nd February 2022

Resource persons: Resource Person: Mr. Saddam Hussain Sheikh (2015 pass-out)

Designation: Design Engineer, Supermarts Ltd.

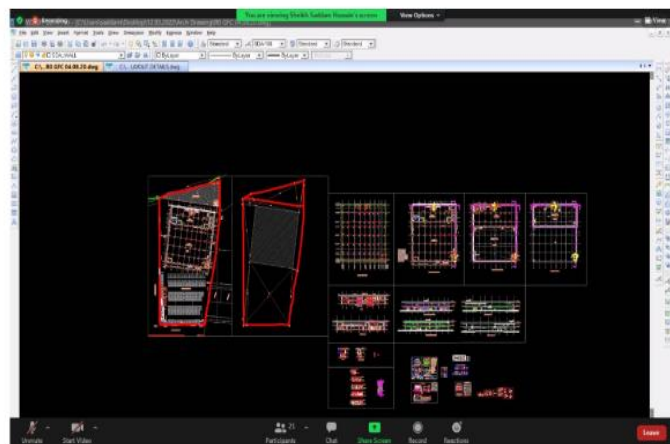
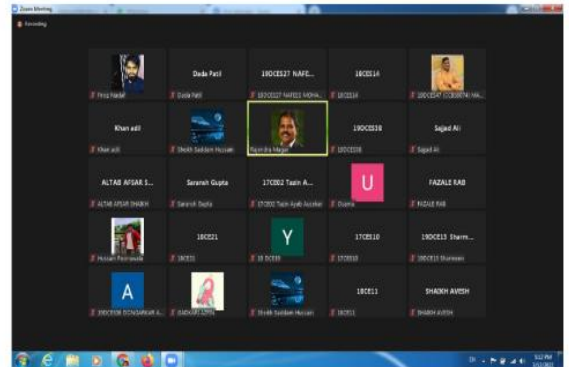
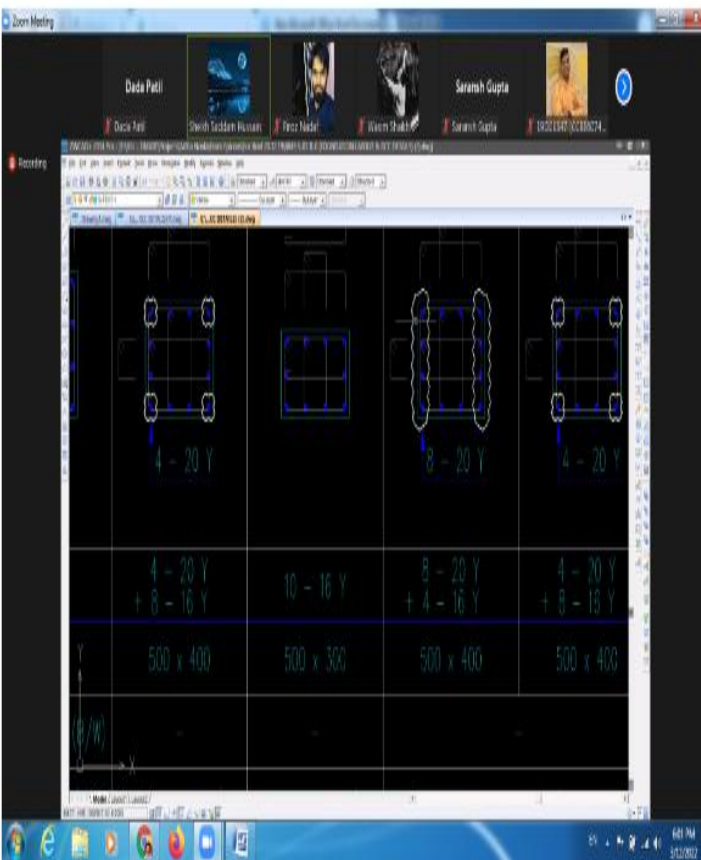
Topic:

Day & Date: Saturday, 12th March 2022

Mode of talk: Zoom platform (Online)

No. of faculty present: 4

No. of final year students present: 13



Faculty Orientation

Event: FACULTY ORIENTATION FOR NEW COURSE OF ENVIRONMENTAL ENGG. "R-19" C-SCHEME by Prof. Irfan Nalband

The Faculty Orientation Program on "Environmental Engineering" and "DLOC: Biological Processes and Contaminant Removal" was organized by the Department of Civil Engineering, Datta Meghe College of Engineering, on July 22, 2021. This event aimed to align educators with the revised curriculum of the University of Mumbai's Civil Engineering program (C-Scheme) for the academic year 2021-22, fostering knowledge exchange and curriculum enhancement.



DATTA MEGHE COLLEGE OF ENGINEERING, AIROLI , NAVI MUMBAI
APPROVED BY AICTE, RECOGNIZED BY DTE AND GOVT. OF MAHARASHTRA AND AFFILIATED TO THE UNIVERSITY OF MUMBAI
(ACCREDITED BY NAAC AND ISO : 9001 : 2008 CERTIFIED INSTITUTION)
PLOT #98, SECTOR -5A, AIROLI, NAVI MUMBAI. PIN 400 705



DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE OF APPRECIATION

Awarded to Resource Faculty

Prof. Irfan Innus Nalband

from AIKTC for Contribution in conducting Faculty Orientation Program for the subject "Environmental Engineering" and "DLOC- Biological Processes and Contaminant Removal" Organized by the Department of Civil Engineering, Datta Meghe College of Engineering, Airoli, Navi Mumbai 400 708, on 22 July 2021.

This Program was conducted in view of the revised curriculum of the Undergraduate Program in Civil Engineering [Rev-2019 (C-Scheme) from the academic year 2021-22] (Semester- VI), in association with Board of Studies in Civil Engineering under the Faculty of Science and Technology of the University of Mumbai

Dr Smita Patil
Associate Professor
Co-ordinator

Dr.A.P. Patil
Professor & Head
Civil and Infrastructure
Engineering

Dr.A.S.Radke
Professor & Head
Civil Engineering

Dr.S.D.Sawarkar
Principal

Technical Paper Presentation

The research paper titled "Design of Biogas Plant for AIKTC Campus," authored by Nalband Irfan, was published in the International Journal of Novel Research and Development (IJNRD) in April 2022. This study focuses on sustainable energy solutions, showcasing innovative designs for biogas systems with practical applications for educational campuses on 1st march 2022.

Certificate of Publication

IJNRD | ISSN : 2456-4184



**INTERNATIONAL JOURNAL OF NOVEL RESEARCH
AND DEVELOPMENT (IJNRD) | IJNRD.ORG**
An International Open Access, Peer-reviewed, Refereed Journal
ISSN : 2456-4184

The Board of
International Journal of Novel Research and Development
Is hereby awarding this certificate to
Nalband Irfan

In recognition of the publication of the paper entitled
Design of biogas plant for AIKTC campus

Published In IJNRD (www.ijnrd.org) ISSN Approved & 8.76 Impact Factor

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Editor-In Chief

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An International Scholarly, Open Access, Multi-disciplinary, Indexed Journal

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Dr. Girish Mahajan published a paper on "The Influence of the Real Estate (Regulation and Development) Act 2016 (RERA) on the Real Estate Sector: A Review" on February 16, 2022. The paper explores RERA's impact on the real estate sector, focusing on its role in promoting transparency, accountability, and better governance.



International Journal of Enhanced Research in Science, Technology & Engineering
ISSN: 2319-7463, Vol. 11 Issue 2, February-2022, Impact Factor: 7.957

The influence of the Real Estate (Regulation and Development) Act 2016 [RERA] on real estate sector: A Review

Khalid M Qureshi¹, Dr. Girish B Mahajan²

¹Student, Department of Civil Engineering, A. I's Kalsekar Technical Campus, Maharashtra, India

²Professor, Department of Civil Engineering, A. I's Kalsekar Technical Campus, Maharashtra, India

ABSTRACT

Real estate industry is a significant part of India's economy as well as among the most important driver source of employment development, making it a vital industry for national structure. Since 2015, the real estate business has been under significant strain, with many real estate designs coming to a halt or making little progress on the ground. Homebuyers who had committed their life money had few options for resolving their issues quickly. Developers were unresponsive, overburdened, and cash strapped. Earlier to the establishment of the RERA act, Real estate sector had numerous issues, involving irregularity of information, a shortage of financial discipline, biased dealings benefiting the property developer, and restricted unfairness in consumer dispute resolution forums. This review paper focuses on the impacts of the RERA act on construction industries and on various stakeholders. The study is based on significant analysis and explores existing knowledge from literature.

Keywords: Real estate sector, projects, RERA act 2016, homebuyers, construction companies.

Technical Paper Presentation

Dr. Girish Mahajan presented a paper titled "Review on Critical Chain Method Applied to Project Management" at the International Conference on Advances in Mechanical & Civil Engineering (IC-AMCE-2022) on February 26, 2022. The paper highlighted the application of the Critical Chain Method in project management, focusing on improving efficiency and resource optimization.



Engineering Rock Mechanics Session

AIKTC hosted a session on Engineering Rock Mechanics, emphasizing rock behavior under stress in civil and geological contexts. Expert talks included Dr. Prabha Joshi on rock classification, Dr. Suman Rawat on discontinuities, and Dr. Madhumita Bhattacharya on stereographic projections. The event concluded with interactive Q&A and a vote of thanks.



Anjuman-I-Islam's
Kalsekar Technical Campus.
Sector -16, Plot # 2 & 3, Near Thana Naka, Tq.-Panvel, Dist.-Raigad. (M.S.)
School of Engineering & Technology School of Pharmacy
School of Architecture



Department of Civil Engineering
in Association with
University of Mumbai

Cordially invites for Orientation Program on
ROCK MECHANICS
THIRD YEAR-CIVIL ENGINEERING (Sem-VI) DLOC: CEDLO601X
(REV- 2019 'C' Scheme) from Academic Year 2021 – 22

....Resource Persons....

<p>Dr.Prabha Joshi Coordinator & Speaker AIKTC,Panvel (9867993766)</p>	<p>Prof. Madhumita Bhattacharya Speaker (G.V.A.I.E.T Shelu, Karjat)</p>	<p>Dr. Suman Rawat Speaker (VIMEET, Khalapur)</p>
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15th July, 2021
(Thursday)
11.00 am - 01.00 pm

Prof. Hawelikar S.C.
Coordinator

Prof. Sarvade S. M.
Coordinator

Faculties Specially Teaching the course
Engineering Geology and interested to take
Elective- Rock Mechanics of Sem-VI are invited.
E-certificate will be awarded to all the attendees.
Details of Meeting will be communicated to
registered candidates only via **Whatsapp Group**

Click here to Register or Scan this code
<https://forms.gle/zo5wv6vXbKYOUUNpU6>



-OUR INSPIRATION-
LATE HAJI ABDUL RAZZAK
KALSEKAR SAHEB

-PATRONS-

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PRESIDENT, ANJUMAN-I-ISLAM

MR. G.A.R SHAIKH
HON. GEN. SECRETARY, ANJUMAN-I-ISLAM

MR. BURHAN HARRIS
HON. EXE. CHAIRMAN, NAVI MUMBAI BOARD, AI

Dr. Rajendra Magar
Professor & Head (Civil)
AIKTC,Panvel
Member, BoS (Civil) MU.

Dr. Abdul Razak Honnutagi
Director AIKTC,Panvel

Dr. Suresh Ukarande
Associate Dean,
Faculty of Science and Technology
Chairman, BoS (Civil) MU.

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Best Technical Paper Award

The research on Static Modulus of Elasticity and Poisson's Ratio of M50 Grade Self-Curing Concrete using IS and ASTM standards by Prof. Dada Patil was recognized for its innovation in concrete technology. Presented at RACESD-2021, MANIT, Bhopal (February 2021), it received the Best Technical Paper Award (2020-21), marking a significant achievement in advancing sustainable and high-performance concrete solutions.



MAULANA AZAD NATIONAL INSTITUTE OF TECHNOLOGY, BHOPAL

(An Institute of National Importance under Ministry of Education, GOI)

INTERNATIONAL CONFERENCE

on

Recent Advances in Civil Engineering for Sustainable Development (RACESD- 2021)

Certificate

This is to certify that


Dada S. Patil

presented the paper (CTM02)

"Static Modulus of Elasticity and Poisson's Ratio of M50 Grade Self-Curing Concrete Using IS Code and ASTM Standard"

in this conference, organized by the Department of Civil Engineering, Maulana Azad National Institute of Technology, Bhopal in online mode during **February 13-14, 2021.**


Dr. Kamal Singh
Secretary


Dr. H.L.Tiwari
Secretary


Dr. Rakesh Kumar
Secretary


Dr. Charu Parashar
Chairperson

Expert Talk on "Legal Documentation and Records and Safety during Repairs"

Prof. Irfan Nalband organized an expert talk on "Legal Documentation and Records and Safety during Repairs" on October 15, 2021. The session was delivered by Qty. Er. Mehadi Abbas, who holds a Master's degree in Civil Engineering (M.E. Civil) and brings with him a decade of rich experience in the field. The talk emphasized the importance of accurate legal documentation and record-keeping in construction and repair projects, alongside critical safety protocols to be observed during repair work.



CAREER OPPOTUNITIES IN CIVIL ENGINEERING

CENTRAL GOVERNMENT

Indian Engineering Services (IES)

Public Sector Undertakings (PSUs)

National Highways Authority of India (NHAI)

Power Grid Corporation of India (PGCIL)

National Thermal Power Corporation (NTPC)

National Aluminum Company Limited (NALCO)

Hindustan Aeronautics Limited (HAL)

STATE GOVERNMENT

State Public Works Departments (PWDs)

Water Resources Department (WRD)

Water Conservation Department (WCD)

Maharashtra Industrial Development Corporation (MIDC)

Maharashtra state Electricity Board (MSEB)

Maharashtra State Power Generation MAHAGENCO

Maharashtra State Electricity Distribution Company Limited

PRIVATE SECTOR

Construction Companies like L&T, Shapoorji, etc.

Infrastructure Development Companies like IRB, GMR, HFCL, IRCON etc.

Design Consultancies like JW, Design Tree Services, Mahimtura, NNC. etc.

Real Estate Developments

Engineering Procurement and Construction (EPC) Firms



"Civil engineering is the art of creating, sustaining, and enhancing the built environment that surrounds us, ensuring that future generations can enjoy the beauty and utility of our world."

