



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

CONSTRO 2023-24

Annual Magazine

2023-24 (June 2024, 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

Go for civil engineering, because civil engineering is the branch of engineering which teaches you the most about managing people. Managing people is a skill that is very, very useful and applies almost regardless of what you do.

SIR JOHN HARVEY JONES



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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



The New Education Policy (NEP 2020) highlighted the need and benefits of multidisciplinary institutions, AIKTC offers multidisciplinary technical education viz. Architecture, Engineering and Pharmacy since its inception in 2011. Our integrated campus provides increased access, even-handedness, and inclusion of the various challenges and opportunities of the future to the students. We have the world class infrastructure wherein our students learn experientially through various technical devices, instruments, equipment, machines and tools at campus or even virtually. Our faculties are focused on students' learning than their teaching by adopting different teaching pedagogies like Outcome-based education (OBE), Activity based learning (ABL), Project based learning (PBL), Blended learning, Flipped classroom techniques etc. to develop strong critical thinking, collaboration, complex problem-solving skills and many more. Before graduating, they can have their own start-up companies mentored through AIKTC Incubation center and become Atma-Nirbhar.

We strive to make our students academically rigorous, integrated and aligned with the needs of industry, society and humanity. We also emphasize on inculcating Universal Human Values (UHV), Professional development and right attitude to fortify your potential to thrive successfully.

Dr. Ramjan Khatik
Director,
AIKTC, New Panvel

From the Dean's Desk



As the Dean of School of Engineering and Technology (SoET), I am thrilled to emphasize on our institution's modern infrastructure and laboratories, which cater not only to the general engineering curriculum but also provide specialized facilities for the Civil Engineering department. Our beloved faculty members, possessing extensive experience in both academia and industry, are committed to nurturing academic excellence and fostering the holistic development of our students. In the Civil Engineering department, we have established a strong tradition of hands-on learning and practical application, complemented by innovative pedagogical approaches such as Outcome Based Education (OBE), Activity Based Learning (ABL), and Project Based Learning (PBL). Through these methodologies, we aim to instill in our students a deep understanding of fundamental concepts and the ability to apply them to real-world scenarios. Our dedication to providing an exceptional academic environment ensures that our graduates are well-equipped with the skills and knowledge necessary to excel in the dynamic field of civil engineering and contribute meaningfully to society's infrastructure needs.

I congratulate the department for bringing out this magazine.

Dr. Rajendra B. Magar
Dean, School of Engineering & Technology

From HOD Desk



Heartfelt and sincere welcome to the department of Civil Engineering at AIKTC, Panvel, Navi Mumbai. Civil Engineering plays a vital and key role in conformity with providing infrastructure works, from a tiny bungalow to a huge dam. Civil engineer is instrumental in creating smart cities, roads, rail networks, canal facilities, tunnels, flyovers, industrial buildings, etc.

The youth having alacrity to pursue their career in civil are most welcome to our department. The department offers B. E., M. E. (Construction Engineering & Management) and Ph. D. programs. The undergraduate curriculum comprises of the balanced amalgamation of theoretical as well as practical perspectives of various civil engineering domains such as geotechnical engineering, transportation engineering, structural engineering, surveying, building planning, water resources engineering, environmental engineering and engineering geology.

We strive hard to impart value based education, inculcating the qualities of an ethical and honest civil engineer who can handle any type of project with confidence for an overall development of the society.

I am feeling ecstatic about release of this magazine. On behalf of department, I thank the management, Director, Deans, HODs & all the faculty members in campus for their constant support.

Dr. Fauwaz Parkar
Head, Department of Civil Engineering

"The only way to do great work is to love what you do."

- Steve Jobs

"The hardest part of writing is deciding what to leave out"

- Ernest Hemingwa

Editorial Board



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(Chief Editor)**



**Dr. Dada Patil
(Co-Editor)**

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(BE-CE)**



**Rohit Borate
(BE-CE)**

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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.

Seminar on “Green Building Audit, High Performance Concrete, Structural Engineering & Software”

A seminar targeting diploma students was held in the Civil Engineering Project Lab from 10 am to 1 pm on 20th July 2023. This seminar covered crucial topics including Green Building Audit, High-Performance Concrete, and Structural Engineering & Software. Expert speakers Dr. Dada Patil, Dr. Rohan Dasgupta, and Prof. Irfan Shaikh shared their knowledge and insights on these subjects. The seminar aimed to enhance students' understanding of sustainable building practices, advanced concrete technologies, and the latest software tools in structural engineering.



KALSEKAR TECHNICAL CAMPUS, NEW PANVEL
Department of Civil Engineering
Organizes

ONE DAY SEMINAR

Topics:

- GREEN BUILDING AUDIT
- HIGH PERFORMANCE CONCRETE
- STRUCTURAL ENGG. & SOFTWARES

Join WhatsApp Group

REGISTER HERE FOR FREE:

SCAN HERE

Or

CLICK HERE

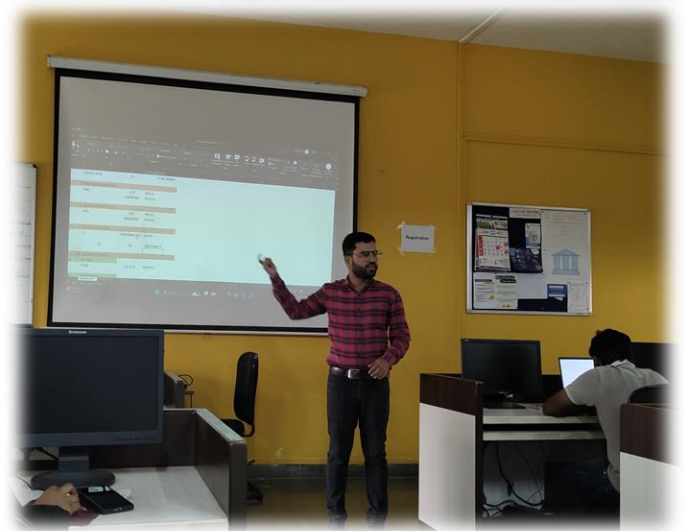
E-Certificates will be issued to all the participants

Date & Time: 1 st August 2023 Tuesday, 10:00 am	Venue: AIKTC Campus, Opposite Karnala Ground, Panvel- 410206	Speakers: Dr. Dada Patil, Dr. Rohan Dasgupta & Prof. Irfan Shaikh
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WhatsApp Group: <https://chat.whatsapp.com/LanghblomduvDnR2FCmYFxA>

Software training workshop covering AutoCAD STAAD.Pro and Etabs softwares

A software training workshop targeting Third Year (TE) and Final Year (BE) Civil Engineering students was held in the Civil Engineering Project Lab from 16th August 2023 to 29th March 2024. This workshop focused on the comprehensive use of STAAD.Pro and ETABS software, essential tools for structural analysis and design. Prof. Irfan Shaikh, an expert in the field, led the session, providing in-depth knowledge and hands-on experience with these powerful engineering software packages. The workshop aimed to enhance students' skills in structural analysis and prepare them for industry demands. Prof. Irfan Shaikh took the responsibility for organizing and conducting this impactful training session.



One-day workshop on “The Use of Ferrocement as a Construction Material”

A one-day workshop on “The Use of Ferrocement as a Construction Material” was conducted for Second Year (SE) Civil Engineering and MECEM students in the BMCT lab from 10 am to 5 pm on 7th October 2023. The workshop featured experts Er. Ms. Kiran T. Rajurkar, Assistant Executive Engineer at CIDCO, and Shri. Ulhas Paranjape from Jalwardhini Pratishthan, Mulund. They guided students through the principles and applications of ferrocement in construction. The workshop culminated in the construction of a circular water storage tank using ferrocement in the laboratory, providing students with hands-on experience and practical skills in this innovative material.



Expert Talk on "Construction Based Startups for Digital Civil Engineers"

An expert talk titled "Construction Based Startups for Digital Civil Engineers" was held in the Civil Engineering Project Lab from 10 am to 1 pm. Targeting Civil Engineering students, the session focused on the use of IT and AI in Civil and Structural Engineering, with an emphasis on utilizing OpenSTAAD. Huzaifa Nakhwa, a Chartered Engineer and Founder of Intelbuild Engineering Services LLP, led the talk. He shared insights on integrating digital tools in construction startups, offering students valuable knowledge to succeed in the modern engineering industry.

**CONSTRUCTION
BASED
STARTUPS**

**FOR DIGITAL
CIVIL
ENGINEERS**

HUZIAFA NAKHWA
(ME Structural Engg. Chartered Engineer)
Founder and Technical Director at
Intelbuild Engineering Services LLP

Practicing as a Structural Engineer
since last 10 years in national and
international market on
residential, commercial and
Industrial RCC and Steel buildings.

CONTENT
Use of IT / AI in Civil / Structural
Engineering Field
How to use OpenSTAAD
Different Startup Ideas in Civil
and Many more.

22 AUG 12:15 to 1:15pm
Aug 2023
Seminar (Comp Engg Dept)

**ANJUMAN-I-ISLAM'S
KALSEKAR TECHNICAL CAMPUS
KALSEKAR INCUBATION CENTRE**
NEW PANVEL

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Expert talk on Construction Finance

Event: Expert talk on “Funding of Infrastructure Projects & Project Planning”

Beneficiaries: BECE and MECCEM students

Date: 22 March 2024

Venue: Classroom, B-202

Time: 11 am to 1 pm

Resource persons: Er. Prashant Gawali (Deputy Manager ICICI Bank, Mumbai)



Structural audit using NDT techniques (Rebound hammer, UPV, Carbonation)

An expert session on “Structural Audit using NDT Techniques” was held for Third Year (TE) Civil Engineering students in the Civil Engineering Project Lab from 10 am to 1 pm on 9th September 2023. Experts from Advice Consultants demonstrated Non-Destructive Testing methods, including Rebound Hammer, Ultrasonic Pulse Velocity (UPV), and Carbonation. The session provided students with practical insights into structural assessment, equipping them with essential skills for industry applications. The training was organized and conducted by Advice Consultants.



Expert Session on MS Project

Event: Expert talk on “MS Project Application in High-Rise Building Project”

Beneficiaries: MECCEM students

Date: 30 March 2024

Venue: Classroom, B-202

Time: 11 am to 1 pm

Resource persons: Mr. Sharad Pardeshi Planning Manager, Millenium Engineers & Contractors Limited) Pune

The screenshot displays a Google Meet interface during a presentation. The main window shows a detailed architectural floor plan of a building, rendered in AutoCAD software. The plan features various rooms, corridors, and structural elements, with numerous annotations and dimensions. The presenter, Sharad Pardeshi, is visible in a small video window on the right. Other participants, Halder Rizvi and Umesh Jadhav, are also shown in smaller video windows. The meeting title is "Meet - ffb-nifv-gef" and the time is 11:15 AM.

Expert talk on “Design and Construction Practices of Rigid Pavement”

An expert talk on “Design and Construction Practices of Rigid Pavement” was held for Third Year (TE) Civil Engineering students in the Civil Engineering Project Lab from 10 am to 1 pm on 14th September 2023. Dr. Sunil, Assistant Professor at RV College of Engineering, Bengaluru, led the session. He shared valuable insights on the design and construction of rigid pavements, focusing on practical applications and industry standards. The session aimed to deepen students' understanding of the subject and was well-organized for maximum benefit.

Expert talk on “Traffic Flow Theory”

An expert talk on “Traffic Flow Theory” under the subject of Transportation Engineering was held for Third Year (TE) Civil Engineering students in the Civil Engineering Project Lab from 10 am to 1 pm on 3rd October 2023. Dr. Asir Khan, Assistant Professor from the Civil Engineering Department at Universal College of Engineering, Kaman, delivered the session. He provided students with valuable insights into the principles and dynamics of traffic flow, enhancing their understanding of transportation systems and traffic management. The session equipped students with essential knowledge for their academic and professional development in the field of transportation engineering.

Expert Session on : A Step Forward for Net Zero and Decarbonization of India- 2050

An expert session on "A Step Forward for Net Zero and Decarbonization of India - 2050" was organized by the IGBC Students' Chapter, AIKTC, for Engineering and Architecture students at the Godrej campus in Vikhroli on 14th September 2023, from 9 am to 5 pm. The session provided students with valuable insights into India's path towards achieving net-zero emissions and decarbonization by 2050. The event aimed to equip future engineers and architects with the knowledge and skills necessary to contribute to sustainable practices and the fight against climate change.



Expert talk on "Air Pollution, Control Techniques & RWH" and "Green Audit"

An expert talk was organized for the 2nd Year Civil Engineering diploma students of VJTI by the Department of Civil and Environmental Engineering, VJTI, on 4th November 2023, from 10 am to 2 pm. The session was conducted by Prof. Irfan Nalband and Dr. Rohan Dasgupta, who covered the topics "Air Pollution, Control Techniques & RWH" and "Green Audit." This event provided students with in-depth knowledge of air pollution control methods, rainwater harvesting techniques, and the importance of green audits in sustainable development. The session aimed to enhance the students' understanding of environmental engineering practices and their application in real-world scenarios.



Career Counselling Sessions by the Faculties



GPS Map Camera



Google

Karjiker Mohalla, Maharashtra, India
HF2J+MW6, Kalusta Khurd, Karjiker Mohalla, Maharashtra 415605, India
Lat 17.551768°
Long 73.482157°
05/12/23 10:19 AM GMT +05:30



GPS Map Camera

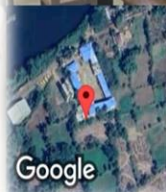


Google

Khed, Maharashtra, India
PCC4+45G, Mahad Naka, Khed, Maharashtra 415709, India
Lat 17.720174°
Long 73.405475°
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GPS Map Camera



Google

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67MP+5W5, DIST, Mangaon, Utekhool, Maharashtra 402104, India
Lat 18.232949°
Long 73.287447°
04/12/23 11:49 AM GMT +05:30



Site Visit to STP and WTP

Event: Site visit under the subject of Environmental Engineering for studying Sewage/water Treatment Plant

Beneficiaries: SECE and TECE students

Date: 21 March 2024

Venue: Kalpataru River-Front, Panvel

Time: 9 am to 2 pm

Resource persons: Prof. Dhaval Shah, Dr. Prabha Joshi & Dr. Rohan Dasgupta



Construction site visit to multi Storey tower

A construction site visit to a multi-storey tower at Hiranandani Estate, Thane, was organized for the BE and MECEM students on 25th September 2023, from 10 am to 5 pm. The visit provided students with an in-depth understanding of various construction activities and processes, including execution, quality assurance, testing, and concrete mixture design. The site visit offered practical exposure to critical aspects of construction and execution, enriching the students' knowledge and preparing them for real-world challenges. The visit was facilitated by Prof. Mohammed Junaid Siddiqui.



Construction site visit to Expressway Tunnel Construction

Event name: Construction site visit to Missing Link

Target Audience: MECEM students

Venue: 3453-Missing Link, Yashwantrao Chavan Expressway, (YCEW)

Date: 14 Oct 2023

Time: 10am to 5 pm

Purpose: study the various activities and processes involved in expressway tunnel construction

Coordinated by: Dr. Fauwaz Parkar



Survey Project on Traffic Survey

Event name: Survey Project on Traffic Survey

Target Audience: TE Civil Engineering students

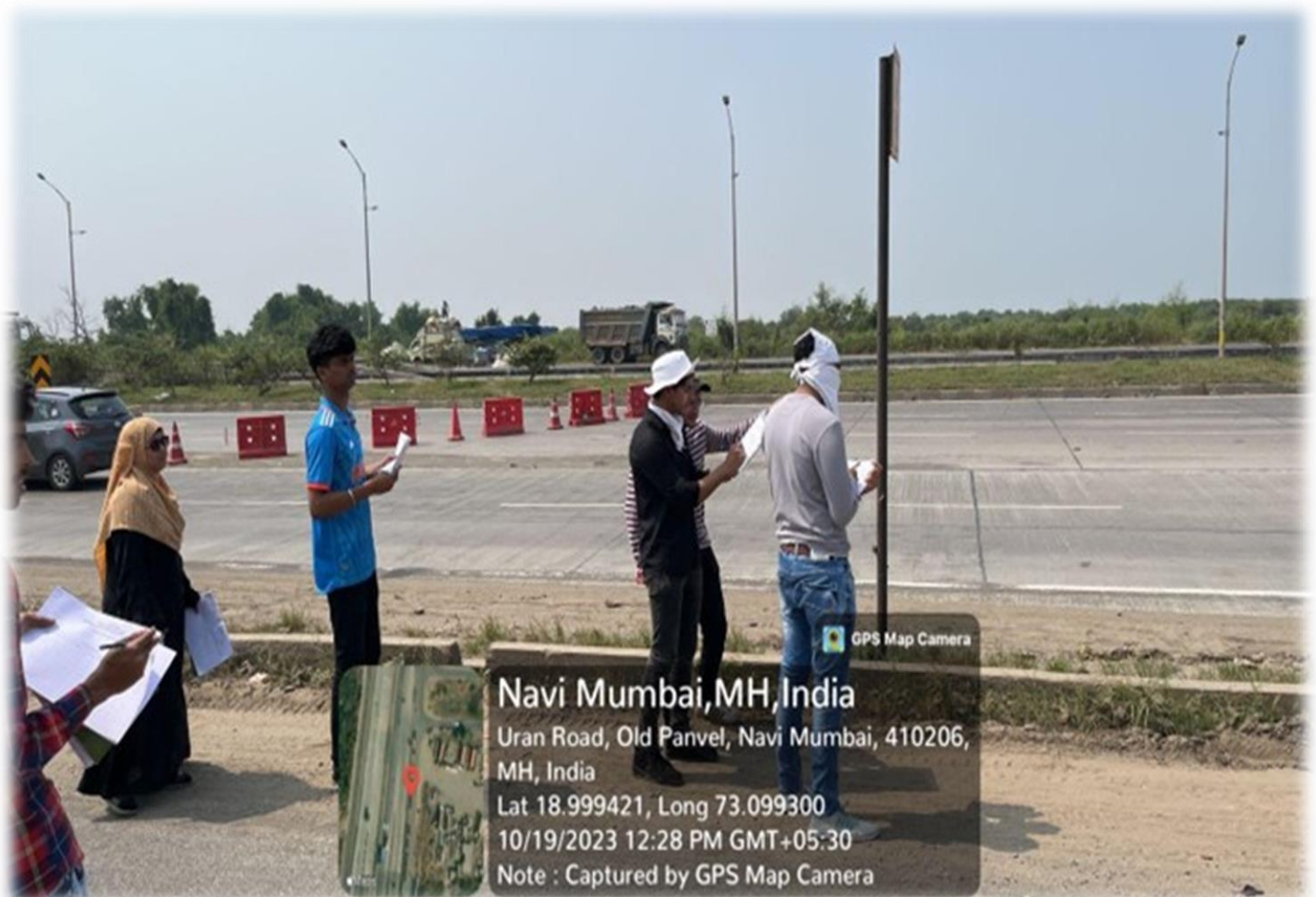
Venue: Panvel JNPT link road

Date: 19 Oct 2023

Time: 11 am to 3.30 pm

Objective: By this traffic volume count, the efficiency of the road can be evaluated. Knowing the present traffic volume, the future data can be forecast.

Coordinated by: Prof. Tehsin Kazi



Placement Drive

A placement drive for the 2023 pass-out batch students was organized by the Civil Engineering Department at AKTC on 30th October 2023, from 10 am to 5 pm. The event, conducted by experts from Renuka Consultants, Mumbai, provided an excellent opportunity for AKTC faculties to facilitate the placement process and ensure that students were well-prepared for their professional careers. The drive aimed to connect graduates with potential employers, helping them secure positions that align with their skills and aspirations.



Appointment as BOS chairman

Dean SOeT appointed as BOS chairman in the Mumbai University



Achievement Recognition Event of NPTEL toppers

An achievement recognition event was held on 29th October 2023 to celebrate the NPTEL toppers from the Civil Engineering Department. The event honored faculty members Dr. Fauwaz Parkar, Prof. Firoz Nadaf, and Prof. Prathamesh Gawade, as well as PG students Ms. Fatema Sobia, Wasim Patel, Kalim Sayyad, Hire Sachin, and SK Mohammed Ali, for their outstanding performance in NPTEL courses. This recognition highlighted their commitment to academic excellence and their contributions to advancing knowledge in civil engineering. The event aimed to acknowledge their achievements and inspire others in the department to pursue similar academic success.



Elite NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
DR FAUWAZ PARKAR
for successfully completing the course



Research Methodology

with a consolidated score of **95** %

Online Assignments	22.92/25	Proctored Exam	71.87/75
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Total number of candidates certified in this course: **3794**

Devendra Jalihal

Prof. Devendra Jalihal
Chairperson,
Centre for Outreach and Digital Education, IITM

Aug-Oct 2023
(8 week course)

Prof. Andrew Thangaraj

Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL23GE36S642302524

To verify the certificate



Page 1 / 1

No. of credits recommended: 2 or 3

STUDENT ACHIEVEMENTS

Mr. Kadri Riza – 6th Rank in Inter Collegiate Javelin Throw Event

An Inter Collegiate Javelin Throw Event for University of Mumbai colleges was held at the Athletic Meet 2023-24, Mumbai City Zone (Men), from 10 am to 5 pm on 29th Oct 2023. In this competitive event, Mr. Kadri Riza, a Third Year Civil Engineering student, achieved an impressive 6th rank. His performance in the javelin throw showcased his dedication and athletic skill, making the college proud in this prestigious intercollegiate competition.



STUDENT ACHIEVEMENTS

National Level Aakar Competition at IIT Bombay - 2nd prize

Three teams from AIKTC participated in AAKAAR 2024 on 16th March 2024. In the CONQUERIT event, a team from AIKTC named 'BOB the builder', comprising of 4 students from final year civil engineering - Shaikh Irfan, Shaikh Soban, Shaikh Huzaifa, and Borate Rohit undertook a challenging task of designing pervious concrete, casting cubes, beams, and cylinders, and rigorously testing the strength of their innovative creation. They were and they were able to secure second position in the CONQUERIT competition.



SHAYARI BY NIHAL SAYYED

Meri is qismat pr meherban
ban kar aya hai.....

Is mushkil bhari zindagi me
itminaan ban kr aya hai.....

Tu beshaq us rab ka Ayaan
ban kar aya hai....

Teri ehmiyat me kya kahun
aye dost!

Tu jeyse umar k zindagi me
Iman ban kar aya hai.....

STUDENT CORNER

POEM BY SHAIKH SHAHBAZ

In 2002, a vision took its flight,
Kalsekar Technical Campus, a beacon of light.
But it was 2011, a pivotal year,
When degree education truly found its sphere.

The Civil Engineering department, a pillar so grand,
Building our nation, by design and by hand.
From roads to railways, connections so vast,
Creating new futures, merging present with past.

Infrastructure rises, development unfurls,
Opportunities bloom, in this engineering world.
Civil is the best, a truth we all see,
Shaping tomorrow, with each new decree.

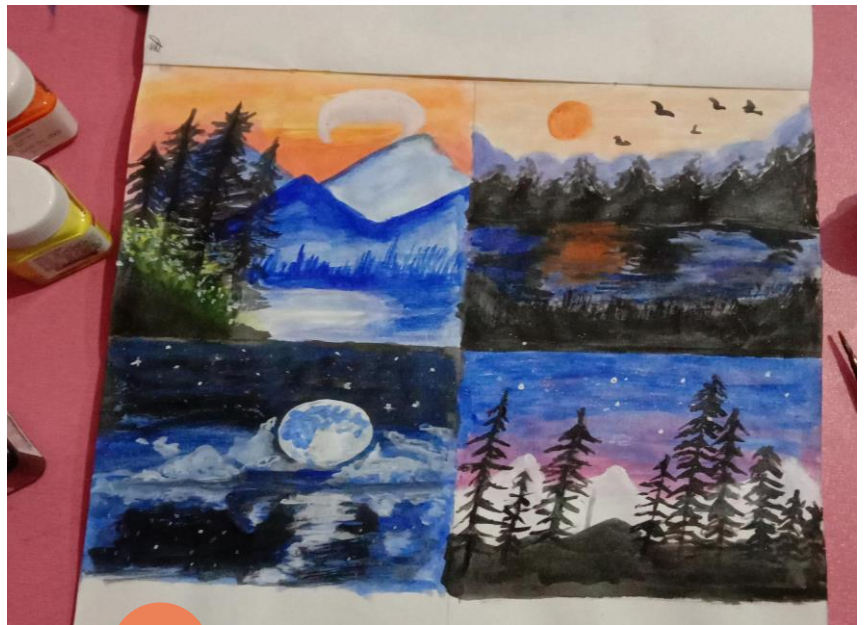
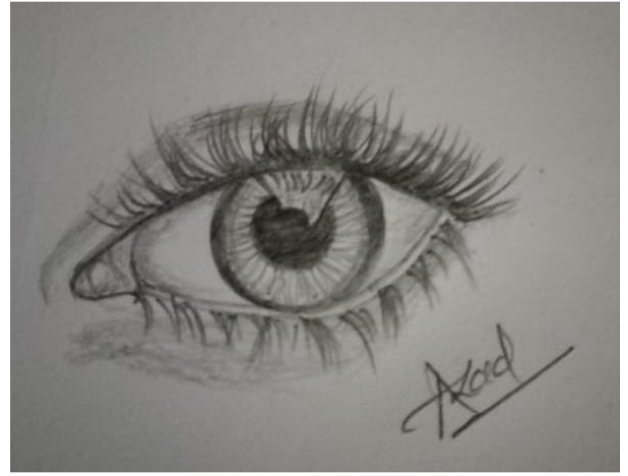
Thousands have passed, their spirits so proud,
In their knowledge and skills, they stand out from
the crowd.

Talented professors, a guiding star bright,
Supporting their students, through day and through
night.

Kalsekar's legacy, in each graduate's heart,
A testament to growth, and the science of art.
A campus of dreams, where ambitions soar,
Forging paths to a future, ever more.

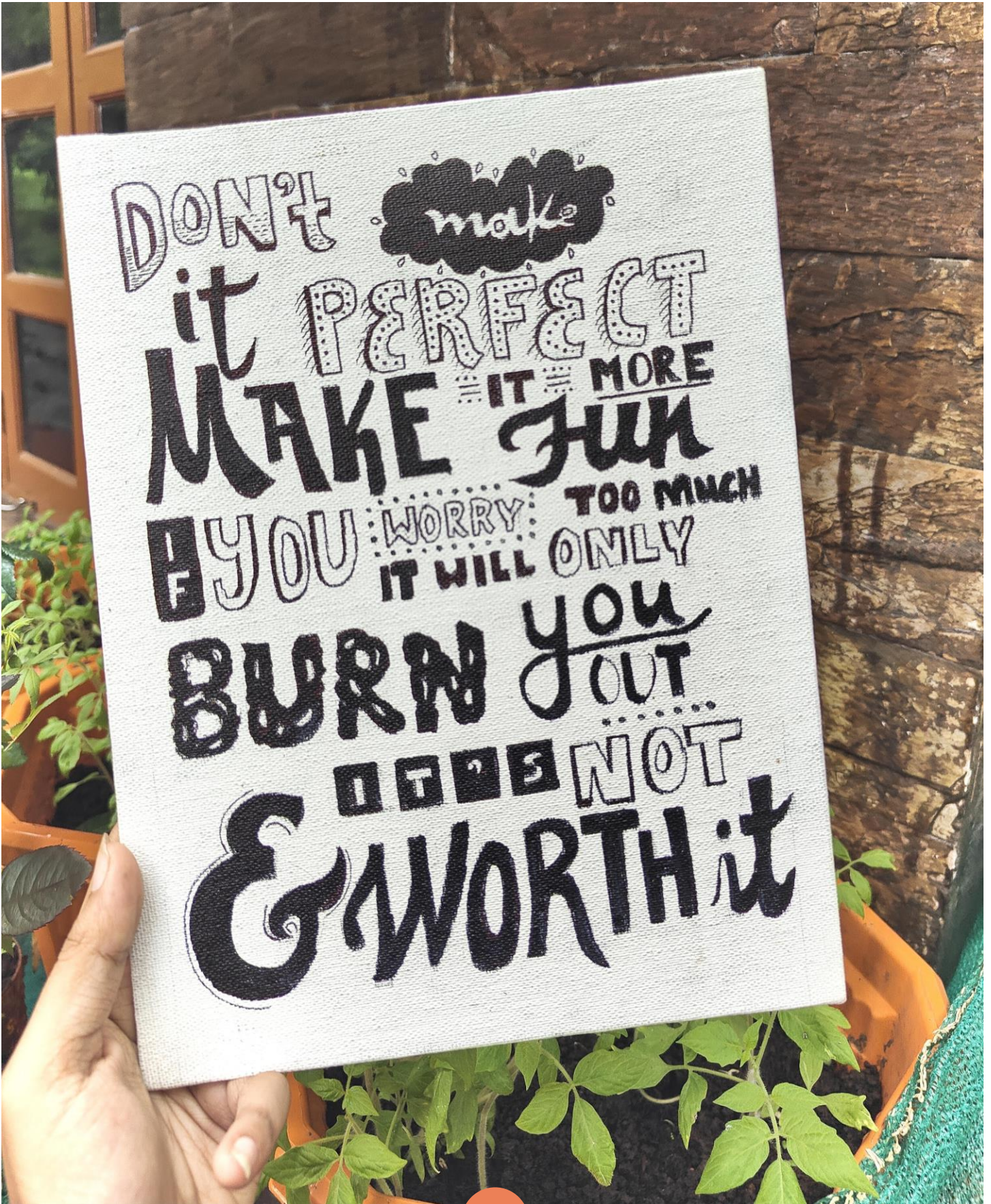
STUDENT CORNER

ART BY SHAIKH ASMA ABBAS



STUDENT CORNER

ART BY FAIZA ABDUL MAJEED PARKAR



AI: A New Age for Civil Engineering

Artificial intelligence (AI), once a figment of science fiction, has now become a reality that's revolutionizing various industries. One such field experiencing a significant transformation is civil engineering. From designing smarter cities to optimizing construction processes, AI is proving to be a game-changer. One of the most prominent applications of AI in civil engineering is in the realm of structural analysis. AI-powered algorithms can analyze vast datasets of building materials, design parameters, and environmental factors to predict the behavior of structures under different conditions. This enables engineers to design more resilient and efficient structures that can withstand natural disasters and long-term wear and tear. Moreover, AI is being used to optimize construction processes. By analyzing historical data and real-time information from construction sites, AI can identify potential hindrances, optimize resource allocation, and predict project timelines. This not only improves project efficiency but also reduces costs and delays. AI is rapidly reshaping the landscape of civil engineering. By leveraging its capabilities, engineers can design smarter, safer, and more sustainable infrastructure. As AI technology continues to advance, we can expect to see even more innovative applications in the years to come.

- **Prof. Shaikh Irfan**

"Civil engineering is the art of directing natural forces to the service of mankind."
- **Thomas Telford**



"Creativity is intelligence having fun."
- **Albert Einstein**