



E- Magazine

Issue 20, March-May, 2021



MARATHWADA INSTITUTE OF TECHNOLOGY, AURANGABAD

Publishing

E-MAGAZINE

MARCH-MAY 2021



SUCCESS

TECHNOLOGY

CREATION

INNOVATION

MIT

DESIGNERS

ACHIEVERS

LEARNING

Campus Chronicle.....

By Ar. Hargurjeet Singh

(Principal architect at Singh Architects & Interiors.)

Ar. Hargurjeet Singh is an alumni of JNEC college of Architecture, Aurangabad. (2015 Batch). He has work experience of 3 yrs with renowned architect Ar. Sanjay Puri. He is a Design Passionate and likes to share his journey with students to motivate them to achieve the best in their field.

DAY-1

“Insights into the Work of Ar. Sanjay Puri” 06th March 2021, (1:30 pm to 3:00pm)

Ar. Hargurjeet Singh began the session with introducing Ar. Sanjay Puri. Sir elaborated on the projects in which he contributed and through his projects he explained Ar. Sanjay Puri's design philosophy.

Sir also emphasized on how important detailing is for any structure how it forms part of the design process.

He explained projects of Township, Retail Malls, Hotels, Entertainment Centres & Temple completed with Ar. Sanjay Puri. And shared the journey of reaching the final design.



DAY-2

"Record Keeping in Architecture" 12th March 2021 ,(1:30pm to 3:00pm)

The session began in a very interesting manner. Sir began his Presentation through various examples of how students label their files & save after updating on their desktops. He then explained what are the common errors that students commit in saving their files. Further Sir, explained how important it is to save and organize our work in a proper manner so as to save our time and preserve our data. This session was very helpful for students as it guided them on how to work in a organized manner digitally and manually.



Department of Electronics and Tele Communication

Organized A Webinar on “Career Planning”

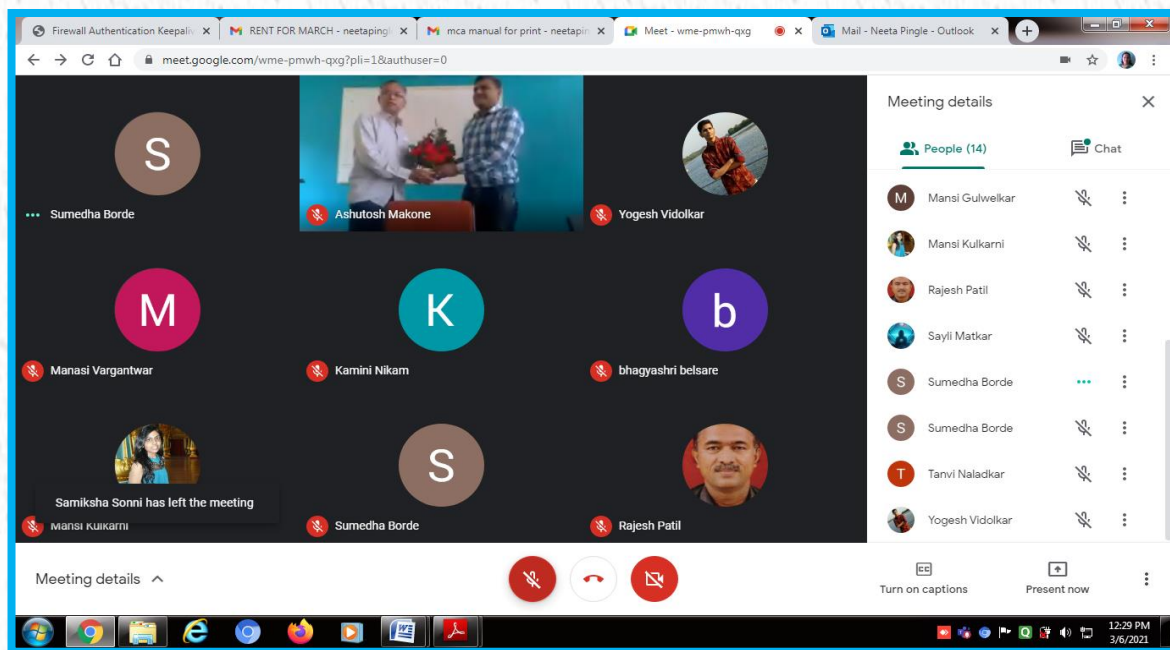
Date- 06 / 3 / 2021

Speaker: Mr. A. B. Makone, Data Scientist, Pulse. Io, London, UK.

Coordinator- Mrs. S. S. Borde **Class-** SY, TY & B. Tech Students

Career guidance is given to students to help them to acquire the knowledge, information, skills and experience necessary to identify career options, and narrow them down to make one career decision. This career decision then results in their social, financial and emotional well being throughout.

Career Guidance Series Talk 1 conducted in online mode on Google meet platform. Total 33 participants attended the program.



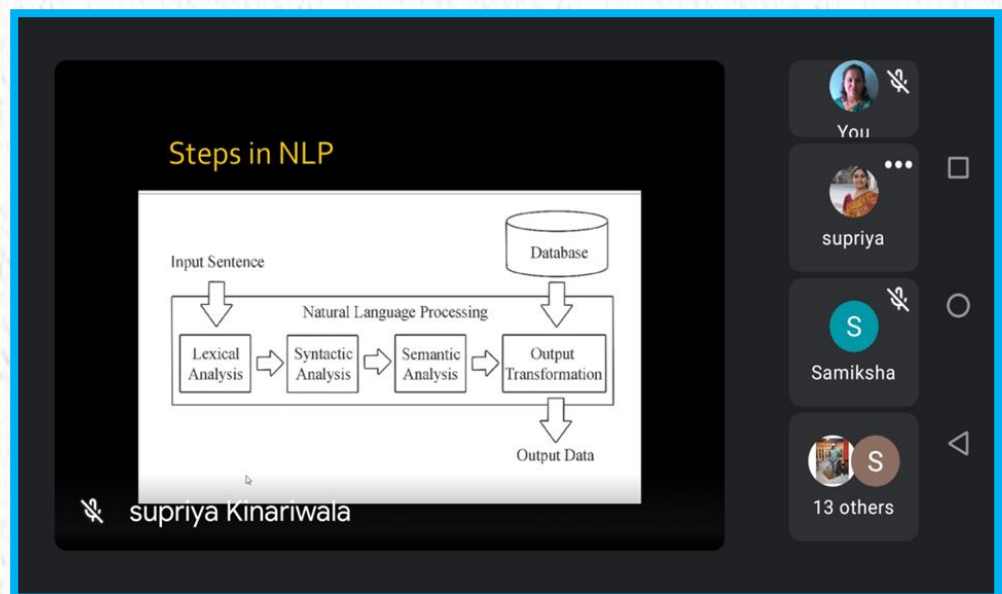
Expert Talk on “ Natural Language Processing and Opportunities”

Date- 20 / 3 / 2021

Speaker: Mrs. Supriya Kinariwala , Assistant Professor ,CSE Department MIT, Aurangabad

Coordinator- Mrs. N.S.Pingle **Class-** SY, TY & B. Tech Students

In this session discussed various real time applications like **Chat Bots, Alexa , Text Extraction, Sentimental Analysis, Topic Classification etc**, Different project ideas & opportunities in this field were also discussed. This will definitely help students to choose their career path as a Research engineer, Application Developer, Data Scientist & product manager .



Department of Electronics and Tele Communication

Event:-Yoga Session On Occasion of Women's Day

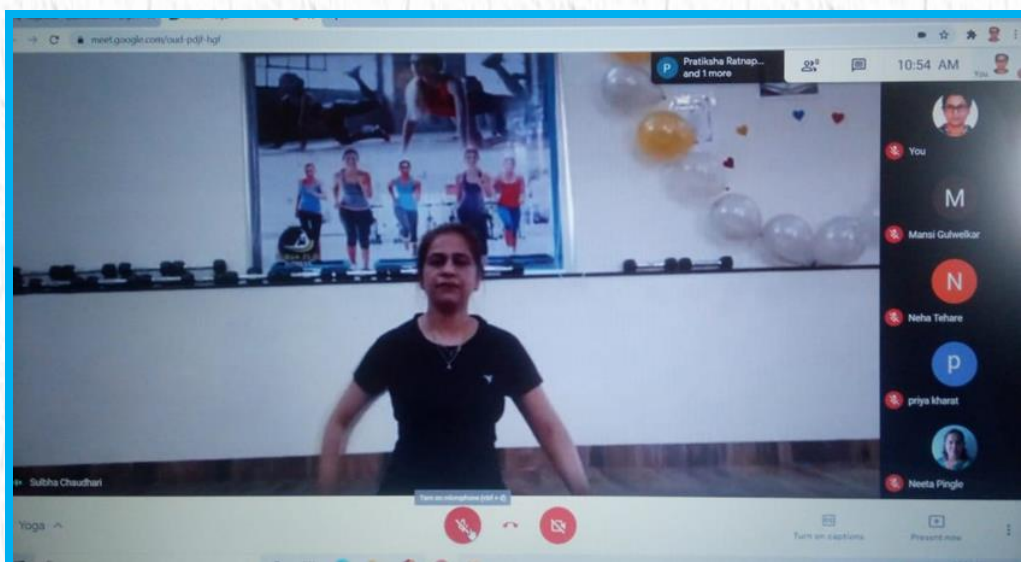
Date- 8 / 3 / 2021

Yoga Teacher-Mrs. S. A. Chaudhari

Coordinator- Mrs. J. S. Wakode **Class-** SY, TY & B. Tech Girl Students

During this Covid 19 situation, everyone is suffering from stress and different health issues. So in order to manage such condition Department of Electronics & Telecommunication Engineering has organized Yoga Session on Account of Women's Day for girls candidates on 8 th March 2021.

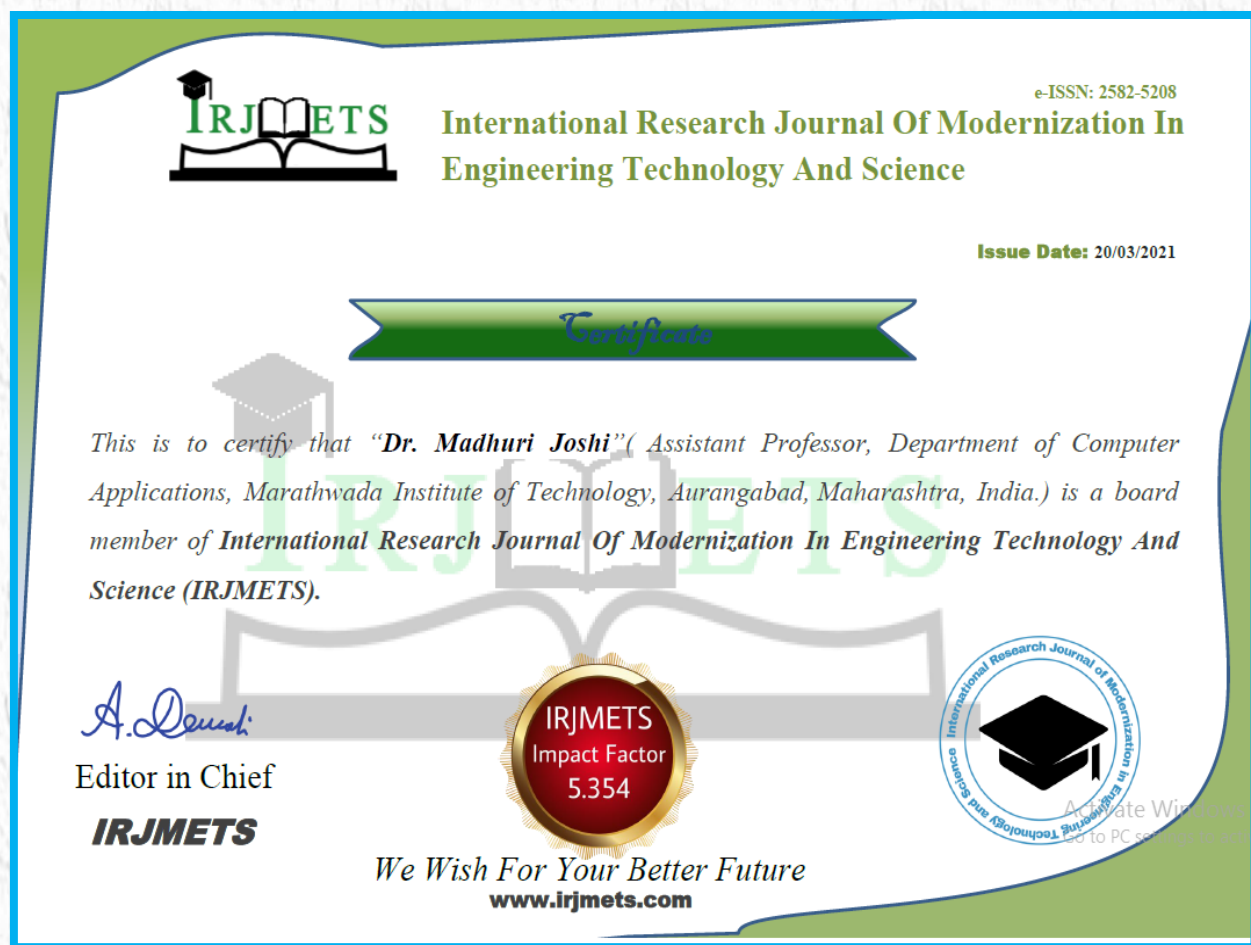
Yoga teacher Mrs. Sulbha Chaudhari has taken practical session on yoga along with explanation of exercise. She had told the importance of each Aasana's by performing it practically. Yoga session conducted in online mode on Google meet platform.



Faculty Achievements

Department of Computer Application

Dr. Madhuri Joshi is appointed as Editorial board member and Reviewer for International Research Journal of Modernization in Engineering Technology & Science

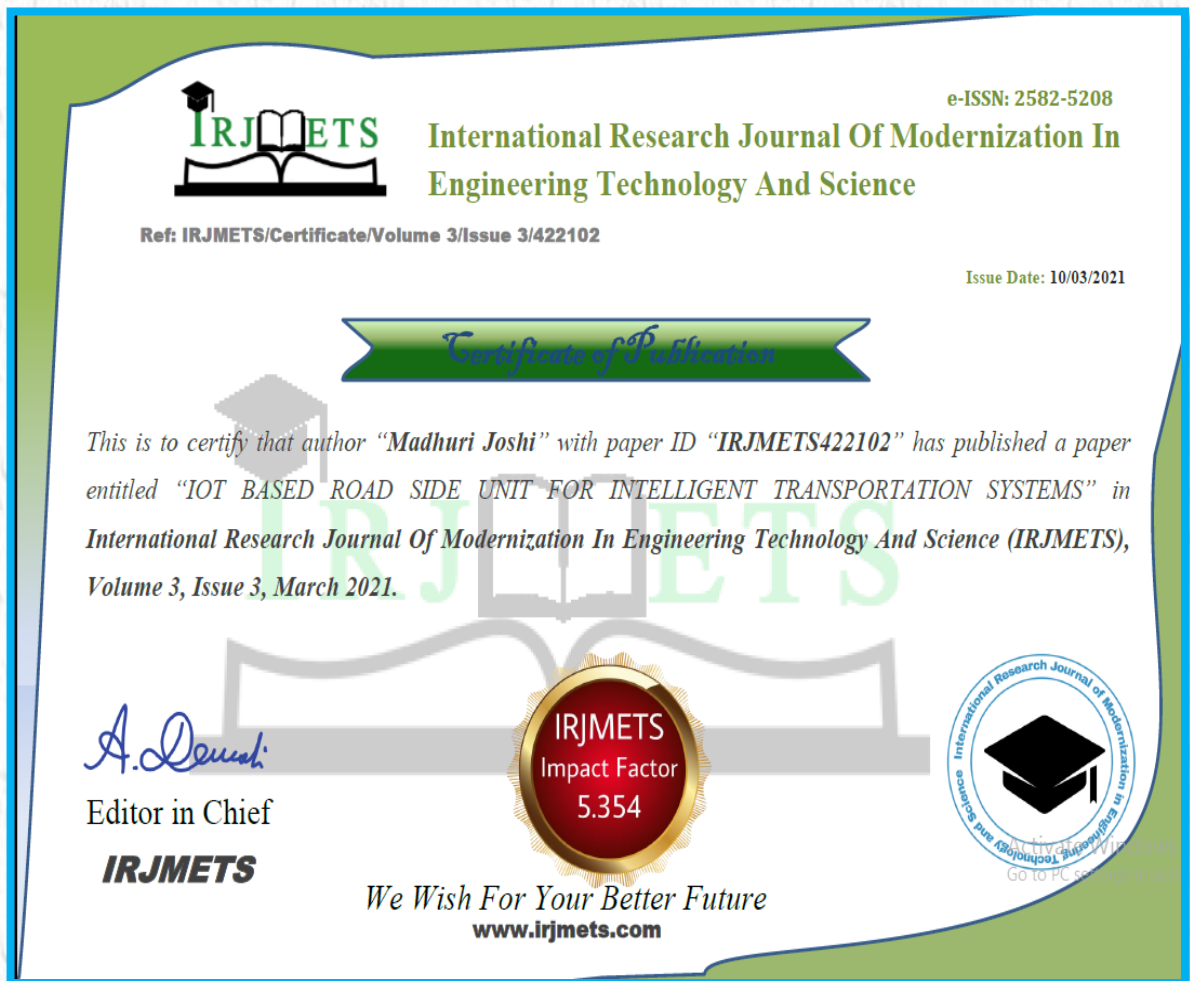


Success Story.....

Faculty Achievements

Department of Computer Application

Dr. Madhuri Joshi Has published a paper entitled "IOT BASED ROAD SIDE UNIT FOR INTELLIGENT TRANSPORTATION SYSTEMS", Vol 3 Issue 3, March 2021



Success Story.....

Faculty Awards

1. Award: InSc Young Researcher Award

Awarded by: Institute of Scholars, Karnataka, India.

Date: Feb 2021

Faculty- Dr. S.S Joshi

2. Award: Best research paper Award

Awarded by: Institution of Engineers, India (IEI).

Event: 35th Indian Engineering Congress

Date: 18th – 20th Dec 2020

Faculty- Dr. S.S Joshi

3. Award: Selection as Young Scientist

**Awarded by: Department of Science and Technology (DST),
Government of India**

**Event: Shanghai Co-operation Organisation 1st Young Scientist
Conclave**

Date: 24th – 28th Nov 2020

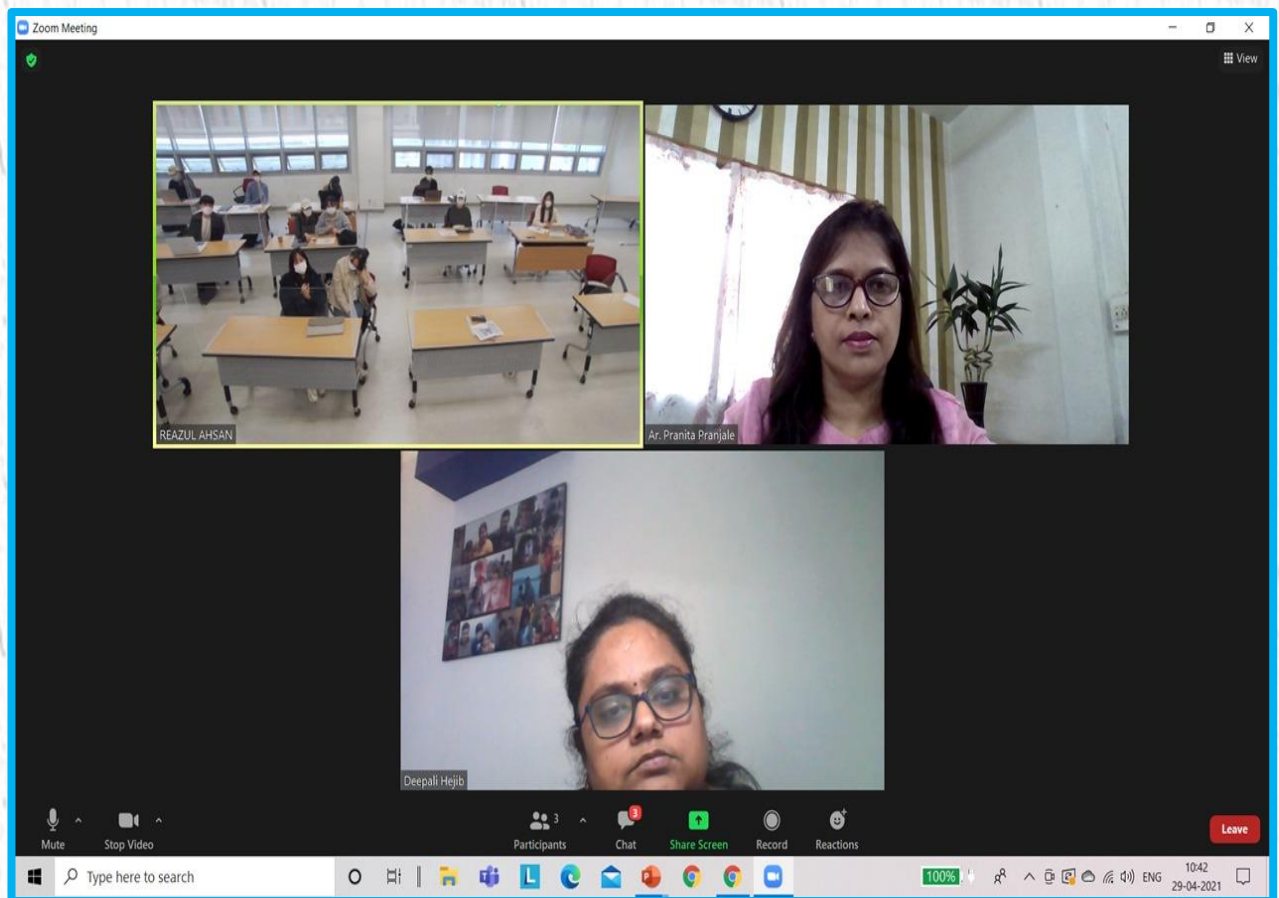
Faculty- Dr. S.S Joshi

Faculty Achievements

Department of Architecture

Resource Person and Guest Lecture

Prof. Pranita Pranjale and Prof. Deepali K.Hejib are invited as Resource Person on 13th May 2021, for the guest lecture for Bachelor of Science (BS) in Urban Ecology under Sustainability in planning course at Department of Urban Ecology, the University of Utah (Asia Campus) Incheon, South Korea.



Success Story.....

Students Placement

Mr. **Tanay Rameshdas Vaishnav** of B. Tech. Mechanical Engineering selected as **DBT** in **BYJU'S**.

Mr. **Sanket Jadhav** of B. Tech. Mechanical Engineering selected as **Graduate Engineer Trainee** in **BKT Tires Waluj Aurangabad** with **annual package of 3.6 LPA** the campus recruitment process was conducted on 16th and 17th june 2021.

Conference & Workshop.

Department of Mechanical Engineering

Conference Attended

Title of conference: 5th International Conference on Recent Advances in Materials Chemistry (ICRAMC – 2021)

Organizer: Department of Chemistry, SRM Institute of Science and Technology, Kattankulathur, Chennai in association with Alternative Energies and Atomic Energy Commission (CEA), and Université Gustave Eiffel, France

Duration: 18 -20th Feb. 2021. **Attended by:** Dr. S.S Joshi

Subject of talk: Controlled Synthesis of 3D CaTiO₃ Hierarchical Spheres for Acetone Sensing: A Potential Tool for Non- invasive Diabetes Monitoring.

Talk delivered in Workshop

Title of workshop: Smart Manufacturing Workshop

Organizer: IIT Indore under Industry Academia Consortium for Smart Manufacturing

Duration : 26-27 Feb 2021

Subject of talk : Service Performance Prediction for Better Service Management

Delivered by : Dr. P. U. Zine

Title of workshop: One day Workshop on Research Methodology in Engineering

Organizer: SBJITMR, Nagpur

Duration: 13 March 2021.

Attended by:
Prof. N.V. Kalyankar

Conference & Workshop.

Department of Mechanical Engineering

STTP Attended

Title of STTP : Introduction to Finite Element Methods for Engineering Application with ANSYS

Organizer: Mechanical Engineering Department G H Rasoni Institute of Business Management, Jalgaon

Date: 3rd may to 8th may 2021

Attended by : **Prof. N.V.Kalyankar**

Science Talk

Attended by : **Dr. Shravanti Joshi**

Title: ACS science Talk: Utilizing Light for Environmental Applications: Photo(electro)catalysis

Speaker: Prof. Wonyong Choi
Head, Division of Environmental Science & Engineering, Pohang University of Science and Technology (POSTECH),
Pohang, Korea, Editor-in-Chief: ACSES & TEngineering.

Duration : 28th May 2021

Title: **12th Clean Energy Ministerial (CEM12) and 6th Mission Innovation Organized by International Renewable Energy Agency (IRENA)**

Organiser: Virtual Event hosted by Chile, Republic of Chile, South America.

Duration: 31 May to 6 June 2021

Webinar Organized

- Title: '**Machine design online**' software demonstration

Organizer: Feast Software team and Department of Mechanical Engineering, Marathwada Institute of Technology, Aurangabad.

Date: 28th May 2021

Number of Participats : **62**.

- Title of webinar: '**Machine design online**' software demonstration.

Organizer: Feast Software team and Department of Mechanical Engineering, Marathwada Institute of Technology, Aurangabad.

Date: 28th may 2021.

Attended by : Dr. P. U. Zine, Dr. D.V. Nehete, Dr. S.S Joshi, Prof. A.V.Gadekar, Prof. Vishal Warule, Prof. Vinod Damdhar, Prof. Krishna. Aantarkar, Prof. N.V Kalyankar, Prof. S.S.Waghmare, Prof. Naveed A. Shaikh, Prof. P.D. Bhatkar, Prof. S.V. Korke, Prof. Narendra Chavda, Prof. A.P. Paliwal

Techno Cultural Event...

Department of Architecture

Mosaic 2021 is an annual event of Department of Architecture, MIT, Aurangabad. This is a techno cultural event where department organizes activities such as seminars, workshops, exhibitions and co-curricular activities for students to showcase their talent. It has been conducted every year since 2019.



Mosaic 2021 ONLINE TECHNO-CULTURAL EVENT

Day 1 01.04.2021 (Thursday)

09:30-09:45AM Inauguration

09:45-12:00AM Expert Talk
On "Design Thinking" By
Ar. Nilesh Misal & Ar. Varsha Jadhav

01:00-02:00PM Expert Talk
On Urban Design-Interface
between Academia and Practice
By Ar. Samir Shaikh

12:30-03:30PM Students Activity



Ar. Nilesh Misal
Director,
Ether Design pvt. Ltd
Bangalore



Ar. Varsha Jadhav
Design Consultant
Bangalore



Ar. Samir Shaikh
Design Director &
Studio Chair
BDP, Mumbai

Day 2 02.04.2021 (Friday)

09:30-10:30AM Expert Talk On
"Journey of an Architect
in the Corporate World"
By Ar. Shaon Sengupta

11:00-03:30PM Workshop I
"Origami" By
Ms. Sampada Belvalkar

11:00-03:30PM Workshop II
"Parametric Architecture" By
Ar. Mohammad Taha



Ar. Shaon Sengupta
Director & Zonal Head-
North & East India,
Edifice Consultants pvt. Ltd
New Delhi



Ms. Sampada Belvalkar
Director, Sampada's Potpurom,
Pune



Ar. Mohd Taha
Studio DRF
Faculty, MIT Aurangabad

Day 3 03.04.2021 (Saturday)

09:30-10:30AM Expert Talk On
"Journey to the World of Animation"
By Ar. Avneet Kaur

11:00-12:30PM Alumni Meet

01:00-02:00PM Students Activity

02:15-03:15PM Valedictory



Ar. Avneet Kaur
Walt Disney Studio
CA, USA

Techno-Cultural Event
Department Of Architecture
MIT Aurangabad



Mosaic 2021-Techno Cultural Event..

Techno Cultural Event...

Department of Architecture

It was a 3 day event arranged on virtual platform-Microsoft teams.

Day 1 -1st April 2021 activities....

Inauguration ceremony followed by an expert talk on product design by award winning architects **Ar. Nilesh Misal** and **Ar. Varsha Jadhav** from Bangalore who have established their design firm **named 'Ether designs'**.

Student's Activity Session

This session was organized for showcasing talent of students and providing them a platform to perform. Total six activities were conducted, three of them were online, three of them were offline.

Expert talk by Ar. Sameer Shaikh.

TOPIC– “Urban Design – Interface between Academia and Practice”

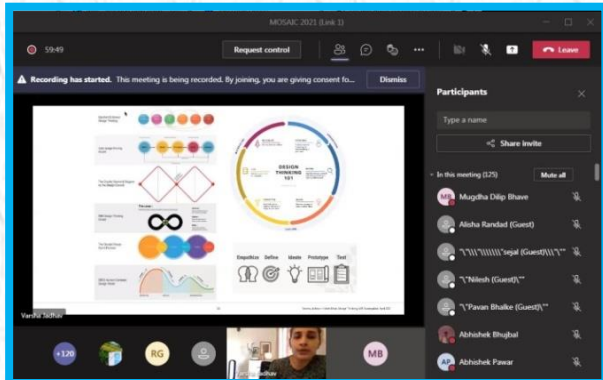
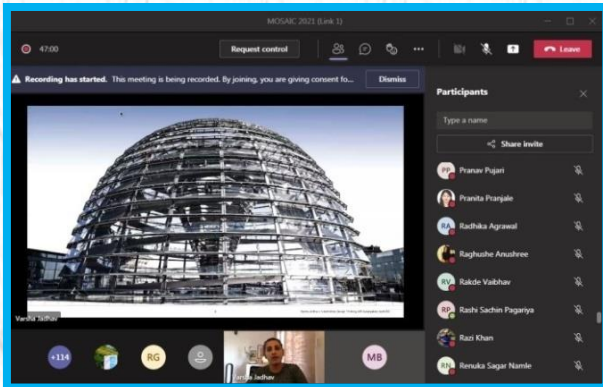
During his presentation, The Expert explained the various type of urban design projects done by his firm and the details about various approaches that can be taken when handling an urban design project. He explained the role of academics in practice and the relationship which should be established between academic research and practical application.

Mozaic 2021-Techno Cultural Event..

Techno Cultural Event...

Department of Architecture

Glimpses of Day 1



Mozaic 2021-Techno Cultural Event..

Day 2 - 2nd April 2021 activities....

Expert talk by Ar. Shaun Sengupta

TOPIC– “Journey of an Architect in the Corporate World”

Ar. Shaon Sengupta has been an Edifician since 2000. She currently operates out of New Delhi, is a Director in the firm and functions as a Zonal Head for North & East India. Ar. Shaon explained about various approaches that can be taken and the challenges handling corporate projects. She also explained about the importance of energy efficiency and sustainability in commercial as well as corporate projects.

Workshop by Sampada Belwalkar

Topic: Origami

Workshop Content :

1. Introduction Session - Paper- Material Properties and Stability.
2. Hands on session. - Basic folds of Origami
3. Hands on Session – Geometry of Roofing Structures.

Workshop by Prof. Mohammad Taha

Topic: Parametric Architecture

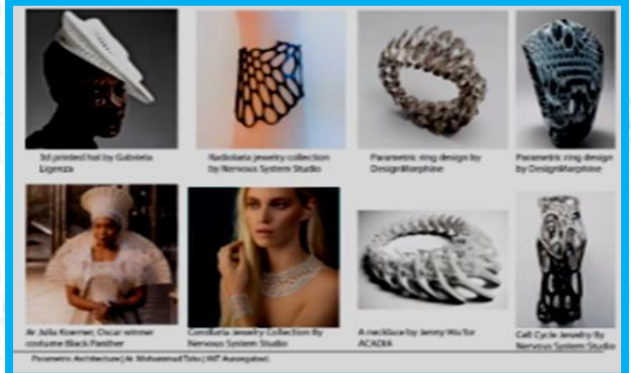
He is a founder & principal architect of **Studio DRF**, & a faculty at **M.I.T College, department of Architecture, Aurangabad**. Apart from specialization in various software, he mastered different skills in Digital Fabrication Technology.

Workshop Content :

- 1 Parametric and Algorithmic Design.
2. the use of parametric design in different fields like Product design etc.
3. use of Rhino and Grasshopper to develop parametric designs

Techno Cultural Event...

Glimpses of Day 2



Parametric Pavilion at Monterrey, Mexico by Antonios Nikitaras



Serpentine Gallery Pavilion designed by Bjarke Ingels



Biocomposite-based Pavilion at University of Stuttgart



Bamboo Pavilions by Zuo Studio at Taichung, Taiwan



Roundabout Pavilion by MEAN for Expo 2020 Dubai



NP Pavilion, Expo In Mumbai by Saransh Architects



EXDilique by Project One Studio at foyer entrance of University



2009 Summer Pavilion designed by Daneela Sibingo at AA London

Mozaic 2021-Techno Cultural Event..

Techno Cultural Event...

Department of Architecture

Day 3 – 3rd April 2021 activities....

Expert talk by Ar. Avneet Kaur

Topic: “Journey to the world of Animation”

Ar. Avneet Kaur is a visionary leader in the visual effects and animation industry with more than 18 years of experience. She worked at Sony Pictures Image in 2003. Then she joined Walt Disney Animation Studios in 2004.

She recently served as a Simulation Supervisor for Walt Disney Animation Studios' 59th animated feature, **“Raya and The Last Dragon”**.

Ar. Avneet elaborated upon the process of animation and how amalgamation and co-working of engineers, architects, designers and others contribute to a successful animation project.

She explained her role as a simulation supervisor for ‘Raya and The Last Dragon’. Also Ar. Avneet narrated her journey and experience working with Walt Disney Studio. With sheer enthusiasm she interacted with students, during question answer session.

Alumni meet and interaction:

Guest : Ar.Megha Sharma

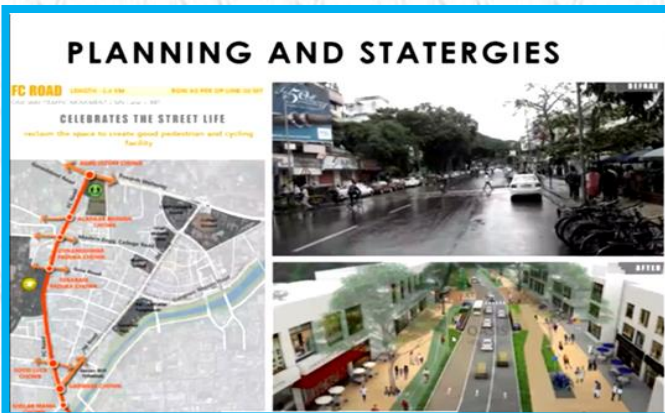
Mosaic 2K21 was graced with presentation by young and dynamic Architect **Megha Sharma- 2007-2012 batch**. Ar. Megha did her Master in **Urban Design**. She joined **Pune Municipal corporation and is a team member in Street Designing Program in Smart City Project**. She shared her experiences and glimpses of the work.

The three days Techno cultural Event concluded with valedictory and certificate distribution.

Mosaic 2021-Techno Cultural Event..

Techno Cultural Event...

Glimpses of Day 3



Mozaic 2021-Techno Cultural Event..

“Career Opportunities in Onshore & Offshore Oil & Gas Industry”

Name of Expert: Mr. Girish Rakhonde & Mr. Bagirath Patel

Date: **8th May 2021,**

Timing: 11:30am to 1:00pm

Online Platform: Google Meet

Class: TY (Shift-I & II students)

Number of participants: 70 Event Coordinator: 1) S.N. Pawar 2) A.V. Pathak

Description: Lecture included the information related with structures in oil refineries both on onshore & offshores. Mr. Girish shared self-experience about his struggling for right job. He also said, it is important to select and specify suitable career path while searching for jobs after graduation. Mr. Bagirath also explained that only operating the software's is not enough, one should know all the basics before using any related software. Both guided the students for choosing any career and opportunities in Onshore & Offshore Oil & Gas Industries as a civil engineering concern.



“Scope & Career in Pile Foundation Engineering”

Name of Expert: Dr. Sunil S. Basarkar, (General Manager, Afcons Infrastructure Ltd, Mumbai)

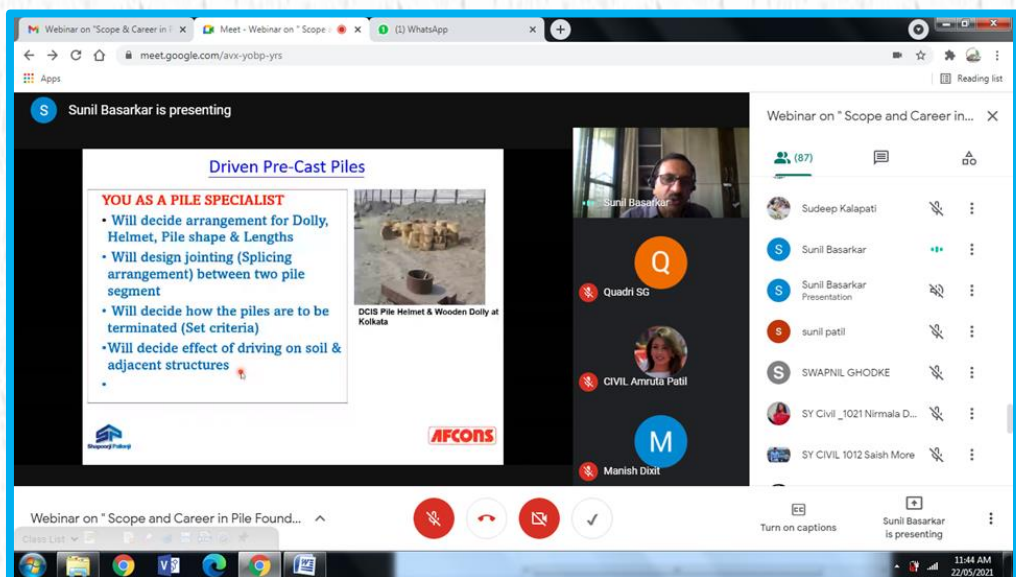
Date: 22nd May 2021, **Timing:** 11:30 to 1:00 pm **Online Platform:** Google Meet

Participants: Third/Final Year students & Faculty of various institutes.

Number of participant: 100

Event Coordinator: 1) Dr. M. S. Dixit, 2) S. G. Quadri 3) S. N. Pawar 4) Y. D. Shermale

Description: Dr. Sunil S. Basarkar spoke on uses of different types of Piles and the scope of work associated with it. He elaborated the site challenges associated with different piles. As many high rise buildings are coming up, robust foundation system needed to be designed hence the importance of Pile foundation comes into picture. The undergraduate were highly benefitted by his talk.



“Methods for Testing of Deep Foundations”

Name of Expert: Er. Ravi Kiran Vaidya, Principal Engineer, M/s. Geo Dynamics

Date: 29th May 2021, Timing: 11:30am to 1:00pm

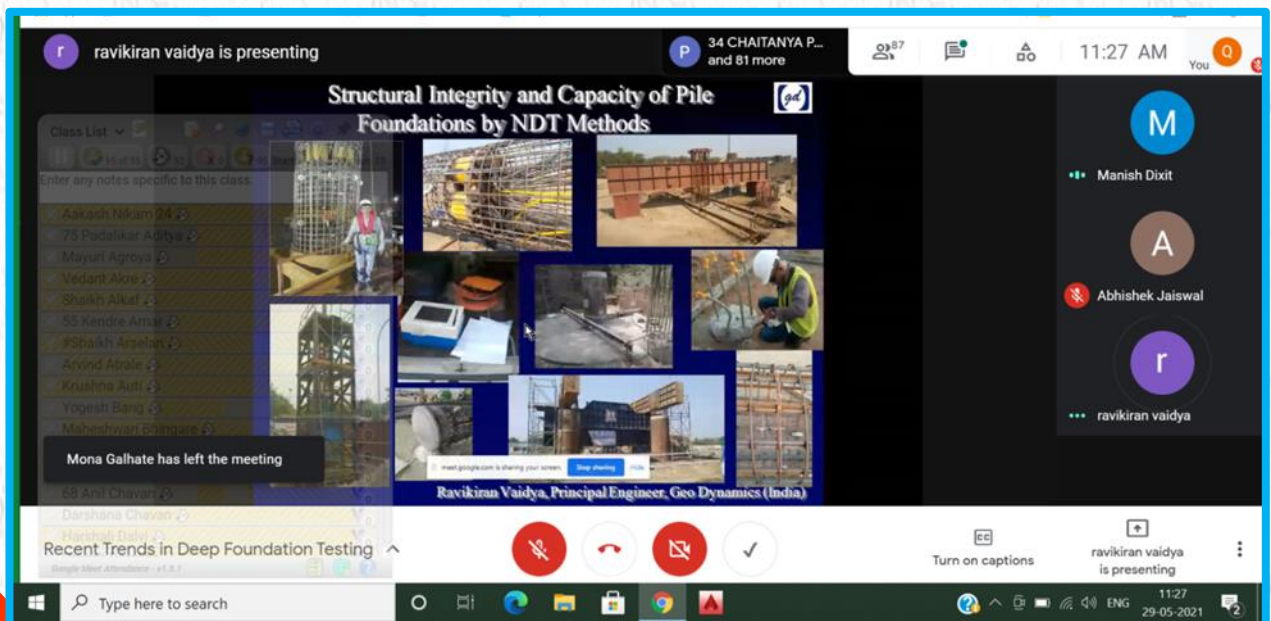
Online Platform: Google Meet

Participants : Third/Final Year students & Faculty of various institutes.

Number of participant: 100

Event Coordinator: 1) Dr. M. S. Dixit, 2) S. G. Quadri 3) S. N. Pawar 4) Y. D. Shermale

Description: Er. Ravi Kiran Vaidya spoke on Structural integrity and capacity of Pile Foundations by NDT methods. He elaborated the different Sonic logging Test for Deep Foundations. As many high rise buildings are coming up, robust foundation system is needed to be designed hence the importance of Pile foundation comes into picture. The undergraduate were highly benefitted by his talk.



Webinars.....

Department of Computer Science and Engineering

Webinar on Cloud Engineering and Data Modernisation”

A webinar on cloud engineering and Data Modernisation was organised on 01/05/2021. Speakers at event was Mr. Baxish Mission , SU head, Data Analytics and Insights Blazeclan Technologies. The objective was to make students aware of all the possibilities involved in Cloud Engineering.


WEBINAR

on

Cloud Data Engineering and Data Modernization

Date **1st May 2021**

Computer Science & Engineering Department



Speaker: Mr. Baxish Mission, SU-Head, Data Analytics and Insights, Blazeclan Technologies, Pune

Details: Mr. Baxish Mission highlighted the importance of various Cloud Certifications and enormous job opportunities in cloud and data engineering. With the help of sample data lake architecture, he elaborated the different services needed to be learnt for data engineering.

Webinar....

Webinar on Automation Testing

A webinar is organised on Automation Testing on 08/05/2021. The speaker at event was Mr. Abhishek Sawai, Technical Head Calsoft, Pune Maharashtra. He has made students aware of all the possibilities involved in Automation Testing. He also explained us about his strong suits include Selenium + java coding, System Integration testing, Regression testing, Mobile Application testing, System testing, E2E Testing, Functional testing, and designing test scenarios.

WEBINAR on Automation Testing

Computer Science & Engineering Department

What is STLC?

Software Testing Life Cycle (STLC) is a sequence of specific activities conducted during the testing process to ensure software quality goals are met.

STLC involves both verification and validation activities. Contrary to popular belief, Software Testing is not just a single human activity, i.e. testing.

It consists of a series of activities carried out methodologically to help verify your software product.

STLC Phases

There are following major phases in any Software Testing Life Cycle (STLC Model)

1. Requirement Analysis
2. Test Planning
3. Test Case Development
4. Test Environment setup
5. Test Execution
6. Test Cycle closure

What is Defect life cycle

```
graph TD; New --> Assign; Assign --> Test; Test --> Pass; Pass --> Close; Test --> Reject; Reject --> Reopen; Reopen --> Test;
```

Speaker: Mr. Abhishek Sawai, Technical Lead, Calsoft, Pune

Date 8th May 2021

Details: Mr. Abhishek Sawai highlighted the importance of software testing as one of the career paths in IT industries. He elaborated the details of automation testing and tools like Selenium. With the help of example test cases, he explained testing on sample software.

Webinar on Data Science Machine Learning and AI

A webinar on Data science Machine Learning and AI is organised on 22/05/2021. Main speaker at event was Mr. Tushar B. Kute Data Scientist and Researcher in MITU Research, Pune. This Webinar has been fruitful to all participants and students got awareness about broad area of Data Science

WEBINAR

on


Data Science, Machine Learning and AI

Date 22 May 2021

Computer Science & Engineering Department

Learning vs. Designing


- AI is a bigger concept to design intelligent machines that can simulate human thinking capability and behavior, whereas, machine learning is an application or subset of AI that allows machines to learn from data without being programmed explicitly.



Data Science Jobs


DATA SCIENTIST	DATA ANALYST
Data Engineer	Data Analyst
Machine Learning Engineer	Business Analyst
Research Data Scientist	Data Scientist
Research Analyst	ML Engineer
Big Data Engineer	Business Data Analyst

Typical Algorithms in Machine Learning



The war of data

- Lots of data is being collected and warehoused
- Web data, e-commerce
- Financial transactions, bank/forex transactions
- Online trading and purchasing
- Social Network
- Cloud



Speaker:

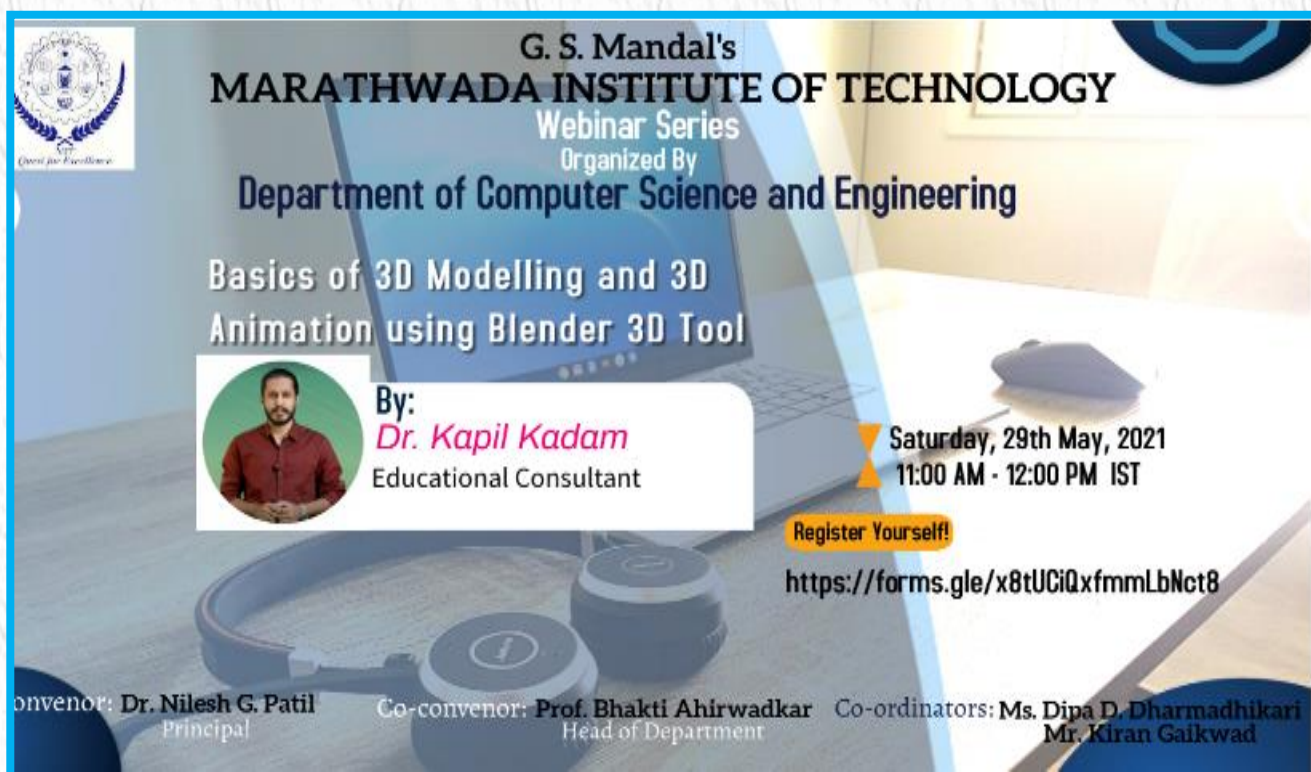
Mr. Tushar Kute
Data Scientist and Researcher
MITU Research, Pune

Webinars.....

Department of Computer Science and Engineering

Webinar on basics on 3-D modelling and 3-D animation using Blender

A webinar on basics on 3-D modelling and 3-D animation using Blender is organised on 29/052021. Main speaker at event was Dr. Kapil Kadam (Working as Education Consultant). The webinar was attended by 100 students of Computer Science & Engineering, along with the faculty members.



G. S. Mandal's
MARATHWADA INSTITUTE OF TECHNOLOGY
Webinar Series
Organized By
Department of Computer Science and Engineering

Basics of 3D Modelling and 3D Animation using Blender 3D Tool

By:
Dr. Kapil Kadam
Educational Consultant

Saturday, 29th May, 2021
11:00 AM - 12:00 PM IST

Register Yourself!
<https://forms.gle/x8tUCiQxfmmLbNct8>

Convenor: Dr. Nilesh G. Patil
Principal

Co-convenor: Prof. Bhakti Ahirwadkar
Head of Department

Co-ordinators: Ms. Dipa D. Dharmadhikari
Mr. Kiran Gaikwad

Webinar....

Department of Civil Engineering

Meeting for Consultancy

The Superintending Engineer, Maharashtra Jeevan Pradhikaran, Aurangabad, Er. Ajay Sing, visited Civil Engineering Department on dated 13th May 2021. He also visited all the laboratories in the department; mainly material testing, soil mechanics, transportation, dynamics lab. He expressed his satisfaction seeing well equipped laboratories and decided to give consultancy work of newly started Aurangabad Water Supply Scheme. Presently the faculties in the department are working on it.



Er. Ajay Sing & team visits
NDT Lab / Fluid Mechanics
Lab interact with faculties



Visit for Consultancy

Maharashtra Jeevan Pradhikaran (Govt. of Maharashtra) has allotted consultancy work for Aurangabad Water Supply Scheme to Institute. It mainly includes the consultancy for Concrete mix design, soil testing, material testing and geological investigations.

For this consultancy work, Dr. M. S. Dixit, Prof. V. R. Upadhye, Prof. S. T. Patil and Dr. J. G. Muley has visited the site of Water Treatment Plant, Elevated Service Reservoir from time to time. Along with above faculties, Prof. S. N. Pawar, Prof. S. D. Mane, Lab assistants Shri. Ganesh Raut and Ganesh Jogdand are involved in the work.

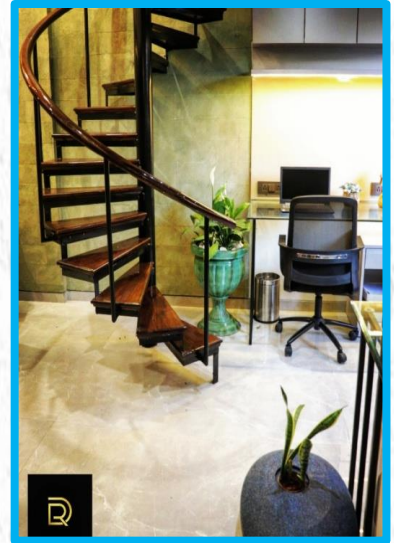


Dr. M.S. Dixit, Dr. J.G. Muley, V.R. Upadhye & S.T. Patil visited water treatment Plant site at Nakshtrawadi, Aurangabad.

Through the Lens.....

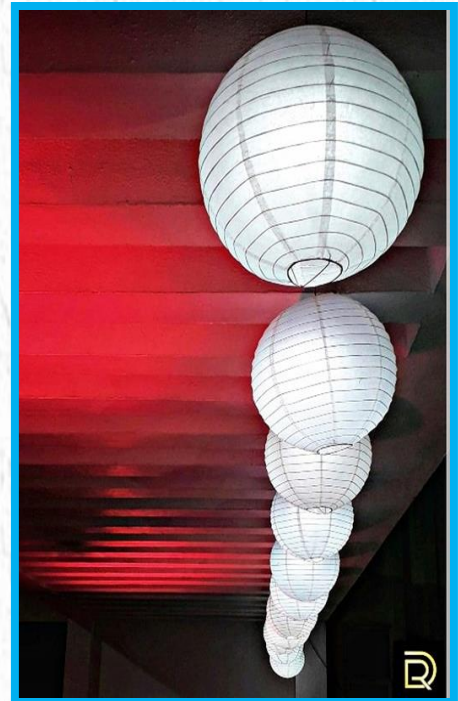
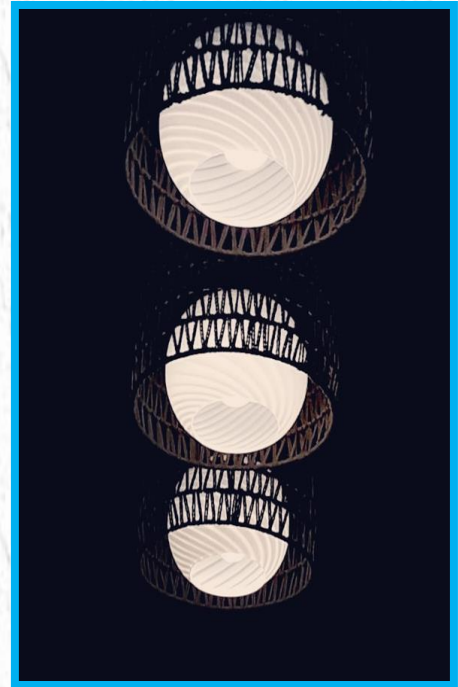
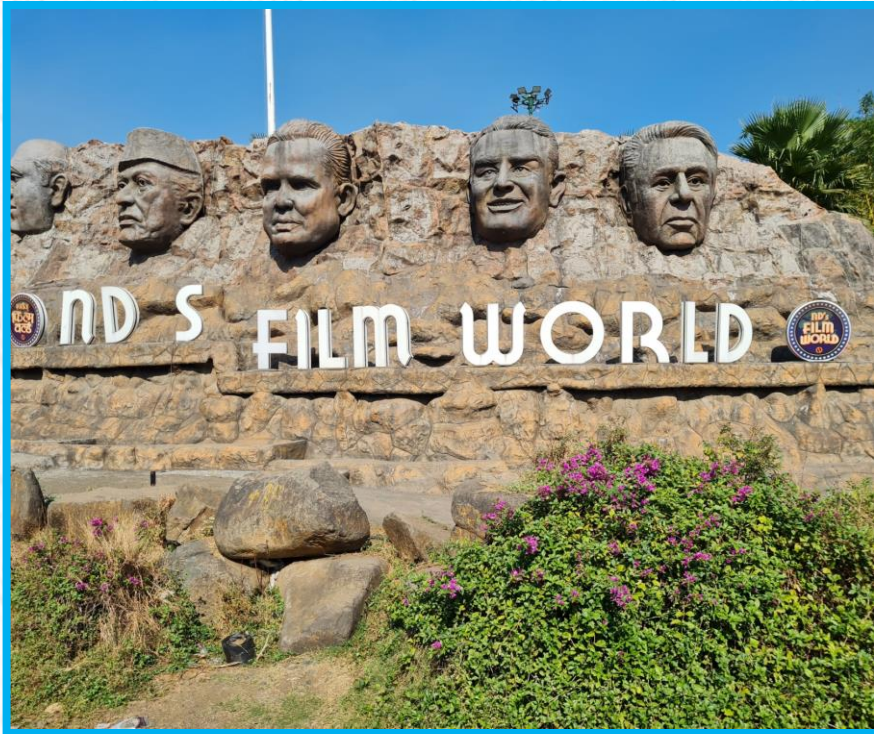


Through the Lens.....



Rishabh Deora-Third. Yr.B.Arch

Through the Lens.....



Rishabh Deora-Third. Yr.B.Arch

Through the Lens.....



Atharva Gaopande-F. Y.B.Voc. SD

Sketchploration.....



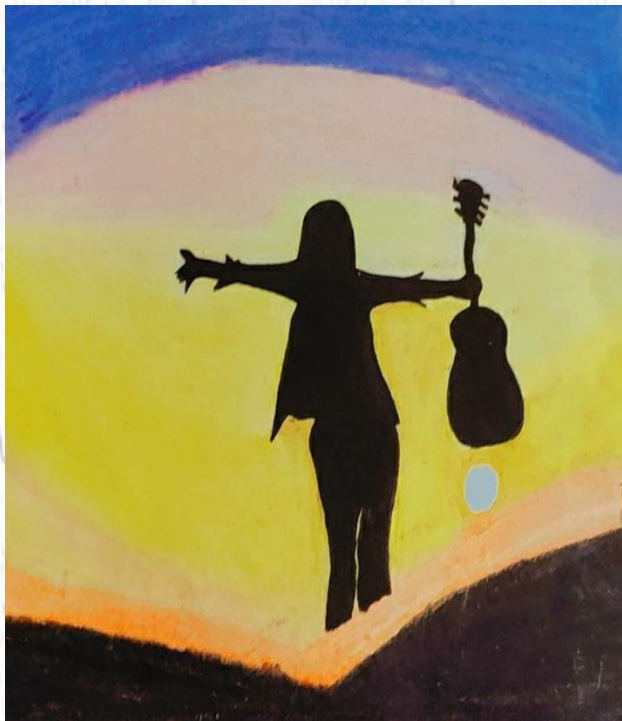
Art Works.....



Tanmayee Khutale FYMCA



Arti Rathod FYMCA

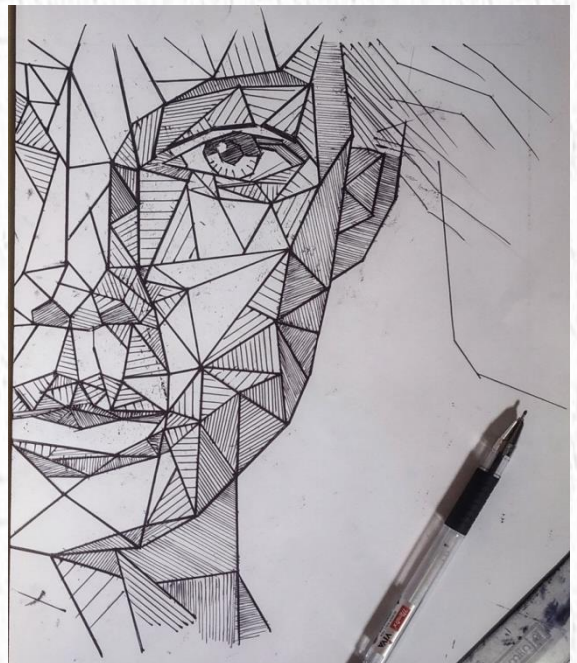


Arti Rathod FYMCA



Sushil Dongre, SYBVOC

Art Works.....



Art Works.....



Amruta Vetal-Fourth. Yr.B.Arch

Life @ MIT.....



The Candid Moments.....

Life @ MIT.....



The Candid Moments.....



MIT
Beed Bypass Road, Satara Village Road,
Aurangabad-431010,
Maharashtra State, INDIA
Telephone: +91 - 240 - 2375375
Fax: +91 - 240 - 2375275, 2376154
Email: info@mit.asia
Website: <https://engg.mit.asia>