



Issue 05, January. 2019



Towards ...Building a Sustainable Community

MARATHWADA INSTITUTE OF TECHNOLOGY, AURANGABAD

Publishing

MIT E-MAGAZINE JANUARY- 2019

A New Step Forward.....

Dear Readers ,

Greetings to you all ...!!!

Here we have moved towards 4th edition of creative edition of MIT(E) magazine. We are proud to share a very special issue. I invite you to enjoy this special edition.

I am very glad to see the enthusiasm of students and faculty towards the new look of the magazine.

This edition of magazine takes you all through the achievements of faculties and students not only in academics but in co-curricular.

With immense gratitude, I would like to thank Management, Principal, Faculty and Students, for their active support and contribution. I congratulate all HOD's and students for making it innovative and inspiring.

We have for you, from the students, faculty, a wide range of poetry, articles, photographs, paintings and some informative and inspirational campus events.

Happy reading !

Prof Deepali K. Hejib
E-Magazine Coordinator



Creative
Writing

By The Heart Of Incredible India.....

MADHYA PRADESH

#MP# AJAB HAI SABSE GAJAB HAI

The heart of India, Madhya Pradesh. The exotic land is an intoxicating mixture of rich history, vibrant sights, awe-inspiring art and pious shrines. From north to south, east to west Madhya Pradesh is adorned with beautiful attractions. From food to culture to heritage to tradition to values Madhya Pradesh is a land that houses the best of India.

Recently I visited Madhya Pradesh accompanied by my college friends and faculty. Our journey started from Aurangabad. Our first stop was Mandavgarh. Mandavgarh is a city that has glorious past. Home to many places and historic monuments, the city should be on every travelers list of must visit places. And if architecture is your passion then there is lot of opportunity to walk through, such carved walls, intricately decorated windows and huge Afgani arches.



I observed when it comes to art, architecture and history, nothing in the region beats the ruins of Mandu. It had great store of monuments more than we ever thought.

It has gem's like Jhaz Mahal, Asharfi Mahal, Roopmati Mahal, Baz Bahadur Palace, Jami Masjid, Hoshangshah's Tomb, Champa Baoli, Dilawar Khan's Mosque, magnificent Darwaza's of Mandu and many others. After spending couple of days in Mandavgarh we left for Maheshwar.

Maheshwar, once capital of King Kaetivarjun and was also known as Mahishmati. This beautiful temple town lies on the bank of Narmada river. We headed towards the beautiful Maheshwar ghat for some peaceful time. It is located on scenic location that makes one feels blissed.



By The Heart Of Incredible India.....

Sitting along the bank of Narmada river was soothing experience. It is located on scenic location that makes one feels blissed. A spiritual journey to Maheshwar is truly liberating and offers one chance of self discovery in spiritual manner.



On the same day around noon we were in Omkareshwar. When nature itself has blessed the place, nothing much is required to be said about it. There is an island in the shape of 'Om' which is known to be one of the holiest symbol of Hinduism. It is an ideal holy site in Madhya Pradesh for spiritual merriment.

The burble of Narmada river, enchanting of mantra and shloka add to its charm. Temple was decorated with fresh flowers adding to beauty, volatile element and creating aura of purity. Participating in evening Aarti is one of the memorable moment of my life. Also while boating in the river had mesmerizing view of Omkareshwar.

At Bhopal, On Day 4, city of old and new India. City is nestled over hills and two beautiful lakes add on to its beauty. Bhopal is amalgamation of various cultures and periods in history. There are lots of refreshing different things to do here.

On the last day of trip we were at Indore-Mini Mumbai. Though this extra ordinary trip we were exhausted physically but my mind was at peace and sense of triumph reigned my mood. After exploring splendid monument in Indore we flew back to Bombay.

According to me, State of Madhya Pradesh offers, extensive range of sites and places of inters where no traveler can ever find moment of boredom.



Anushree Raghuse
(First Yr.) Dept. of Architecture.

Travlogue.....

प्रेमाची बोली आहे मायेची सावली,
वैरानी वैर वाढतात सांगतात जानोबा माउली।
थोडे दिवस आलो आहोत सर्वासोबत प्रेमाने वावरा,
राग,द्वेषाची भावना सोडून नवीन जोमाने वावरा।
श्रीमंत असल्याचा तुम्ही, करू नका हर्ष।
कारण कॅव्हाही गरिबिला, होऊ शकतो स्पर्श।
आजकाल एकमेकांना बोलायला, वेळच नाही।
पहिल्यासारखा राहिलेला तो, काळच नाही।
जीवनाच्या वाटचालीमध्ये, येतील खूप समस्या।
त्यांच्यावर सहजरीतीने, मात करण्याची असू दया तपस्या।
जीवनातील संपूर्ण स्वप्न, पूर्ण होतील अशी ठेवा क्षमता।
जशी एका आईची असते, आपल्या बाळावरची ममता।

Samadhan Daud
(TE) Electrical Engineerng Department

आयुष्याच्या धरणावर विश्वासाचे झरे वाहतात...
तरीही, विश्वासाच्या तलावात अविश्वासाचे पाणी साठते...
निरंतर वाहणाऱ्या पाण्याचा प्रवास खूप मोठा आहे...
पण , अडथळे निर्माण करणाऱ्या दगडांची अडचण आहे...
परंतु , शिकारीच्या जाळ्यात अडकण्याची भीती आहे...
रोज पंख पसरवून ऊंच उडण्याचा प्रवास चालूच आहे...
पण , कुठेतरी मनामध्ये पंख तुटण्याची भीती आहे....
प्रवासामध्ये अडथळे खूप येणार याची खात्री आहे...
पण , त्या अडथळ्यांना पार करण्याची जिद्द आहे...

Prerna Kakde
(TE) ETC Department

First Toy of My Childhood....

And suddenly mom scolded me
"is it a hostel? Do you stay here for free?
So just clean your room upto the benchmark
And no dust everything should spark"

While cleaning the shelf an old trunk was discovered,
And all of a sudden the pace of cleaning was lowered,
There were my old toys, pictures, and many memories,
All time fun, eat, sleep and no worries.

There was my doll my first toy, with the green dress,
On her first view, I got impress,
Her fair skin and dark brown hair,
And with the green hat she was all prepare,
To play with me all day and roam with me,
I carried here everywhere I would be.

Sticking her hands around my neck and running,
And attempting to have a superpower- flying,
She was double my size, big yet soft,
Playing with her was what I opt.

The blush on her cheeks, spark in her eyes,
Smiling as always and everything nice,
She was always all done with her makeup,
The only thing i asked was her when I wake up.

Those blue round eyes with a small nose,
Yes, this is my doll and we are close,
Happiness and peace was found in her,
Nothing like her yet discovered.

Something so happy, so perfect,
Now, she is out of the trunk all set,
For her old life, roaming with me,
And the happiest we both can ever be.



Renuka Deshpande
Second Year (B.Arch.)

पाऊस

पूर्वीची माणसं जितकी खरी होती
तितकाच पाऊस सुद्धा खरा होता.
प्रत्येकाच्या हृदयात माणुसकीचा झरा होता
आजकालची माणसं जशी खोटी वागतात
तसा पाऊस सुद्धा खोटा वागतो
एक दोन मिलिमीटर पडण्यासाठी
पेटी भरून नोटा मागतो.

बाबा सांगतात पाऊस पुर्वी मुसळधार पडायचा
नदीच्या पुरामध्ये मंदिराचा कळस सुद्धा बुडायचा
रानातले वाहते पाणी आता कुठे दिसत नाही
हिरवे झाड नाही म्हणून, पाखरु सुद्धा बसलं नाही.
खरंच सांगतो मित्रहो, पाऊस आता पूर्वीसारखा वागत नाही
अखखा पावसाळा गेला तरी, चिखल पायाला लागत नाही.

आज्जी पाखडायची दळण, तेव्हा चिमण्या साऱ्या सुपात यायच्या
धीट होऊन साऱ्याजणी एक एक दाणा त्या टिपायचा.
अंगण आता उरले नाही, चिमण्या साऱ्या उडून गेल्या
बंद खिडकी, दरवाजे पाहून, जाता जाता चिमण्या रडून गेल्या.
मला वाटतं त्यांच्यासोबत चिमण्यांनी पाऊस नेला
रडून जाताना चिमण्यांनी तळतळून शाप दिला.
अरे, हवा तेव्हा पाऊस असं कधीच घडणार नाही,

तु वाट बघत रहा
पाऊस वेळेवर पडणार नाही !!
पाऊस वेळेवर पडणार नाही !!
पाऊस वेळेवर पडणार नाही !!

Prof. Kailash A. Awakar
BSHD, MIT, Aurangabad.

Happy Tower....



To be or not to be,
Everyone wonder.
In each and every life
Problems several time thunders.

In somebodies life,
Soon, it knocks.
Nobody can away
from its shock.

All have their
own different fate.
Though, they have
the same gate.

Thorns and flowers
are two ways.
What we choose
set in the same bays.

Clever always choose
good one.
Thousand miles away
Problems run.

Positive thought
increase our power.
This is unique in life,
set up 'Happy Tower'.

Dr. Ganesh Sarangdhar Kakade
BSHD, MIT, Aurangabad.

Through the Lens.....

Capture the happy moments in your life,
In case of rough times they keep you alive.

– Khushbu Suthar



Through the lens.....



Veena Bhirud, TE- ETC Department



Balbhim Kulkarni, Alumni - EE Department

Through the lens.....

I LOVE PLACES THAT MAKE YOU REALISE HOW TINY YOU AND YOUR PROBLEMS ARE.



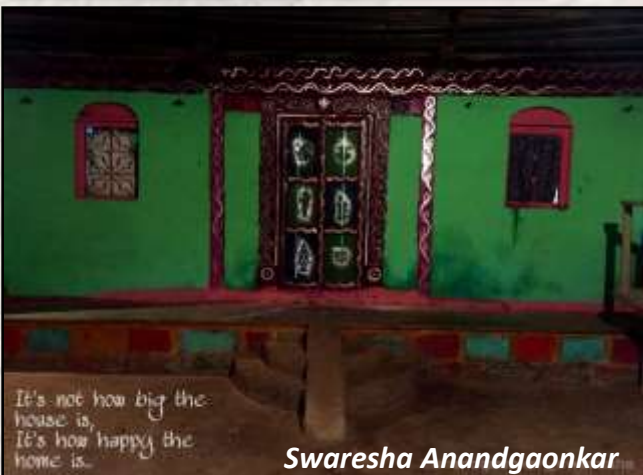
Swaresha Anandgaonkar

Shireen Suryavanshi



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Madhusudhan Lahoti



It's not how big the
hostel is,
It's how happy the
home is.

Swaresha Anandgaonkar



Pritesh Jain

Through the lens.....



Prof. Deepali Hejib



Prof. Anupama Morankar

ARCHITECTURE



Prof. Swapna Dhavale



Prof. Deepali Hejib

From notebook to Canvas.....



Art Works.....



Veena Bhirud (BE), EE



Dolly Fulfager, B.Arch



Dnyaneshwar Dhyagude, EE



Shaunak Vaidya, B.Arch

Art Works.....

Everyday I am trying to forget you
I am trying to erase all memories hav
With you
But at the end of day and start of dreams
the thing I was forget to forgot

– gauri joshi



Sunil
vaidya
(TE),
E & TC

Gauri
Joshi
(TE)
E & TC



Richa Pande, B.arch



Shaunak Vaidya, B.arch



Rajat Patle, B.Arch

Art Works.....



Shweta Motaphale
2nd YEAR
MCA



Life @ MIT.....the candid moments



Campus Diary.....



INNOVATION

CREATION

TECHNOLOGY

MIT

SUCCESS

LEARNING

ACHIEVERS

DESIGNERS

STTP – Implementation of IoT using Raspberry Pi

Department of Electrical Engineering

The one week short training program from 31/12/2018 to 04/01/2019 was designed to develop practical understanding of **Internet of Things and its implementation using Raspberry Pi** in the field of Electrical & Electronics Engineering. This training program was a blend of theory and hands on training from experts working in IoT. The course was conducted by Mr. Tushar Kute, Researcher, MITU Skill Technologies.

The topics discussed varied from Installation & history, Basic Syntax , Operators and Decision Making Statements. The training further included IoT Introduction and Overview, Architecture & Impact of IoT, Introduction to Raspberry Pi development Board, Raspbian fundamentals. Complete Raspbian configuration and Introduction to GPIO, Control of RPi through Android.

The STTP also included IoT Design using Raspberry Pi, Introduction to RPi python programming , Interfacing the LDR and PIR sensors. Data base programming Installation of MySQL on Rpi, Storing the sensor data in the data base. Networking, TCP & UDP communication with sockets. Creating a temporary server and clients, IoT based server application. Various Clouds in IoT application, Creating Own cloud. Triggering various actions like sending SMS in IoT by Way to SMS, connecting the Social network like face book. Processing the image via PI Camera. Overall the training was fruitful in going through the basics and learning the controlling operation through Raspberry Pi.



Innaugration of E-Vehicle

Department of Electrical Engineering

BAJA is one of the most prestigious engineering event in India. BAJA SAE INDIA is an inter collegiate competition in which over 350 teams compete against each other to design , build and race off road vehicles that can withstand the harshest elements of rough terrain. The event is held in two rounds namely VIRTUAL AND DYNAMIC.

TEAM **SQUADRON** participated in e-BAJA for the first time and presented the vehicle prototype in Virtual. The team has succeeded in obtaining 2nd rank in Maharashtra and 4th rank in India.

For the Dynamic, the team has manufactured an e-vehicle that is an electric motor operated vehicle which makes it different from conventional vehicle. The vehicle was launched in auspicious presence of President MIT, Dr. Y.A.Kawade, Dr. S.S.Lomte , Director General Prof. Munish Sharma, and. Dr.H.M.Dharmadhikari, Vice Principal, Admin, Dr. S.M.Badave, Head EE Department along with the Team and the sponsors on 21/01/2019. The vehicle finally proceeded to the dynamics round in between 23/01/2019 to 28/01/2019 in Indore



Participation.....

Department of Mechanical Engineering

Baja SAE is an inter collegiate engineering design competition for undergraduate and graduate engineering students.

This year the virtual design presentation was held at CHITKARA UNIVERSITY Rajpura Campus Chandigarh-Rajpura-Patiala National Highway, National Highway 64, Patiala, Punjab –140401 on 13th & 14th July 2018.

The Final event of Baja SAE INDIA was held at two different locations which are Pithampur, M.P and IIT Ropar, Punjab. 150 teams for m-BAJA had participated in Pithampur, Indore, M.P and 80 teams will be competing at IIT Ropar, Punjab on 8th to 11th March 2019.

Our team **ADRASTOS** had participated at Pithampur, Indore, M.P. during 22nd to 27th Jan 2019. Our team has completed successfully all the technical test which was done before the final race. After that team had completed the static and dynamic event. In the final event i.e. Endurance race our team competed the 12 laps



Team ADRASTOS BAJA SAEINDIA 2019

Participation.....

Department of Mechanical Engineering



**Team ADRASTOS Baja 2019 at event place
(Pit area allocated to each team)**



Participation.....

Department of Mechanical Engineering

IMTEX 2019

Department of Mechanical Engineering were participated in International Machine tool exhibition (IMTEX) 2019 at Bangalore from 23rd Jan 2019 to 30th Jan 2019.

Our institute have showcased five industry oriented projects at Academia pavilion.

Sr	Title of project	Organisation
01	Life improvement of AISI M2 thread rollers used in tread rolling of pin cam follower.	Swagati Engineering Pvt. Ltd, Chikalthana MIDC, Aurangabad.
02	Analysis of process and development of appropriate fixture for welding process.	Dhananjay Auto Parts, Unit-2, H-45, MIDC, Waluj, Aurangabad.
03	Design and development of low cost automated pesticide mixing & filling machine.	SURYA GAU UDYOG, Patoda, Aurangabad
04	Development of robotic part presence inspection system.	BADVE ENGINEERING LTD. Waluj, Aurangabad
05	Design and fabrication of automatic marking nut de-sheller machine.	Start -up of ME (Automation) student .

There are many visitors from industry as well as academia have visited at MIT Stall. Few of them have shown the interest for collaborative projects and assignments. Received four projects from industries. Experienced advanced Technology in the field of additive manufacturing / Industry 4.0/ Digital enterprise/ machine tools / cutting tool/ micro finishing.

Participation.....

Department of Mechanical Engineering

IMTEX 2019



Study Tour.....

Department of Architecture

“STUDY TOUR @ Central India “

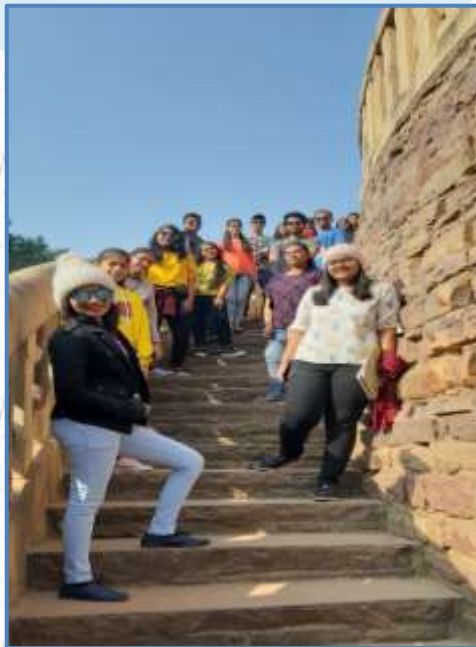
The study tour to Madhya Pradesh was planned in Jan 2019 and was organized for First to third year students of Architecture department for 10 days. During the ten days of visit students visited Mandu, Maheshwar, Omkareshwar, Bhopal, Sanchi and Indore. The students visited historical places , modern architecture structures, conservation projects , garbage disposal plant of Indore and interacted with renowned Architect of Indore city. About 21 students and 2 Faculties participated in this visit. The purpose of the tour was to study historical places, heritage monuments and modern architecture of capital city of M.P. Also to study zero garbage disposal process of Indians rank first garbage free city Indore for the two consecutive years.



Study Tour.....

Department of Architecture

Glimpses of STUDY TOUR @ Central India



Department of Architecture

“CASE STUDY SITE VISIT”

Date: **22nd January 2019**

Timing: **9:00am to 12:30 pm**

Site visit was arranged for First year students of Architecture for the subject AD-II and the purpose of visit was to Study & Understand the Designing of Residential Spaces according to the Clients Requirements. Students were made to interact with the Client who also being the Architect of the Bungalow made the session more informative. Ar. Ajay Kulkarni explained in depth the philosophy behind the concept and how he evolved the concept. He also explained the importance of various factors involved in designing like the orientation according to the Sun path, Wind direction, Cross ventilation, Use of various materials, the golden ratio and its application to various spaces etc. Students were divided into groups & made to take measurements, photographs, sketches, of the entire bungalow and were also told to prepare a write up on his concept. It was a very informative & enlightening visit not only for students but also for the Staff.

31 students and 4 Faculty members Prof. Pranita Pranjale, Prof. Mrudul Deshmukh, Prof. Shaikh Altaf, Prof. Chitra Shinde, accompanied students during the visit



Department of Architecture

“SITE VISIT at Begumpura, Near Hanuman Tekdi”

Date: **23rd January 2019**

Timing: **11:00am to 2:00 pm**

Purpose of site visit is to do the detailed survey of the site selected Near Hanuman Tekdi in Begumpura region of Aurangabad. Students were divided into groups to study all the given topics which included Visual & climatological aspects, Site Surroundings, Soil Type, Topography ,Existing Vegetation ,Accessibility to the Site ,Site Sections and study of impact of surrounding on site. Also students were made to study the site thoroughly and do the sketches in the groups. It was an informative and interesting Site visit. As architecture students they learnt the Site Analysis for design project.

31 students and 3 Faculty co.ordinators (Prof.Pranita Pranjale, Prof Mrudul Deshmukh, Prof. Shaikh Altaf)

Subject: Architectural Design-II

Class: First Year Architecture.SEM-II



Workshops.....

Department of Mechanical Engineering

Student Bootcamp on “AUTODESK – Fusion 360” for academic year 2018 – 19

Three day Bootcamp, dated on 28th, 29th, 30th January 2019 on “AUTODESK – Fusion 360” was arranged by Mechanical Engineering Department of Marathwada Institute of Technology, Aurangabad.

This program was organized with the objective of introduction to “Fusion 360” software. The training was delivered by Mr. Rajesh Yadav and Mr. Badari Hiriyur from AUTODESK Company. Total 51 student attended this bootcamp. Students came to attend this program form 10 different colleges including Marathwada Institute of Technology, Aurangabad. Certificate distribution was done by Dr. N. G. Patil and Dr. S. V. Lahane. The overall Programe rating was excellent.



Workshops.....

Department of Civil Engineering

1. Y. D. Shermale attended one day workshop on NPTEL awareness on dated 1st December 2018 at CSMSS College of Engineering, Aurangabad.
2. Dr. M.S.Dixit attended two days national workshop on Inclusive Technical Education in National context: Challenges and Solution -2019 at SRTMU, Nanded on dated 11 and 12 Jan.2019.
3. Y. D. Shermale attended one day workshop on Autodesk-BIM on dated 2nd February 2019 at CSMSS College of Engineering, Aurangabad.
4. Dr. Mohd.Ishtiyaque, Assistant Professor in civil Engineering completed Ph.D on the topic "Fracture properties of concrete reinforced with mixed fibers" on dated 20/08/2018
5. Dr. Wasim Razvi, Assistant Professor in civil Engineering completed Ph.D on the topic "Behavior of short RCC column using Ferromesh" on dated 20/08/2018
6. Dr. M.N.Mangulkar received a grant of minor research project of Rs. 35000/- from Dr. BAM University, Aurangabad on dated 29/01/2019 for one year
7. Dr.M.N.Mangulkar received a Permission for holding National/International/State level/Workshop from Dr. BAM University, Aurangabad on dated 31/12/2018 for one year grant received is Rs. 20000/-

Expert Talk.....

Department of Architecture

Expert talk on “SMART SKILL DEVELOPMENT”

DATE : 19TH Jan 2019.

PLACE: Seminar Hall, Dept. of Arch, M.I.T, Aurangabad.

An expert talk was conducted on the Topic “**SMART SKILL DEVELOPMENT**” in the Department of Architecture, MIT Aurangabad on 19th Jan 2019 for the students of all years of the Department. About 40 students were present for the session.

The aim of the Talk was to make students aware of latest versions of the Software's & their applications with respect to Architectural point of view. Students were explained the need of Software's in the present day work scenario and how the knowledge of Software's can help them achieve better opportunities in their career as well as get great work done in less time. Mr. Amit Rathi explained all the aspects in depth through his presentation.

His presentation was not only informative but also very motivating for students.

The Session was attended by all faculty members also was coordinated by Prof. S.R Borawake and Prof. Chitra Shinde.



Success Story

Department of Architecture

Workshop conducted by Student of Architecture @ Pune

Mr. Shaunak Vaidya studying in B. Architecture MIT (E), Third Year organized a workshop on 'Basics of Charcoal Painting' on 27th October 2018 and the Venue was CCD, Bhandarkar road, Pune. And the fees was 1500/-, provided with all the stationery.

Approximately 10- 12 participants participated in the workshop.

The workshop was for young crowd and its was about the basics of Charcoal painting, its shading methods. And it was live demonstrated by the participants.

Participants response was with great enthusiasm and were happy to see their artwork.



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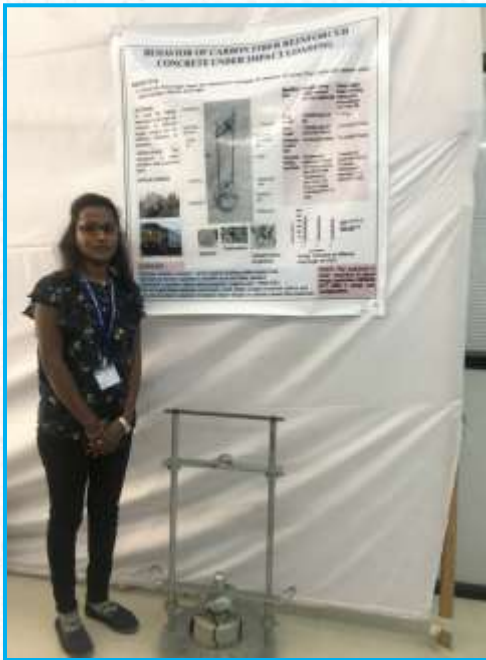


Student Achievement.....

Department of Civil Engineering

AVISHKAR 18-19

Ms. Sheela Bobade a student of M.E. won 1st prize at university level AVISHKAR 18-19 in PG category and Awarded with Merit Certificate and Promoted to State level AVISHKAR 18-19 at University level, Dr. BAMU, Aurangabad and State Level, Gondwana University, Gadchiroli on dated 5th January 2019 and 17th January 2019



Faculty Achievement.....

Faculties from different Departments successfully completed two weeks Faculty Development Programs (FDPs) on “**Foundation Program in ICT for Education (FDP 101x)**” from March 8th, 2018 to April 12th, 2018 and “**Pedagogy for Online and Blended Teaching-Learning Process(FDP 201x)**” from May 3rd, 2018 to May 30th, 2018 conducted by Indian Institute of Technology, Bombay.

Four faculties Prof. Gauri Karanjgaokar, Prof. A.H.Kardile, Prof Leena Aphale and Prof. S.M.Mule were amongst 320 performers from a total of 1571 certified participants in this FDPs . This FDP was held under the aegis of Pandit Madan Mohan Malaviya National Mission for Teachers and Teaching, MHRD.





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>