



**Marathwada Shikshan Prasarak Mandal's  
Deogiri Institute of Engineering and Management Studies, Aurangabad  
Department of Civil Engineering**

**Recognized by AICTE , New Delhi | Affiliated to Dr. Babasaheb Ambedkar  
Technological University, Lonere | B.Tech | M.tech  
Affiliated to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad,  
Maharashtra**

**MAGAZINE**

**AY 2023-24**

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## INSTITUTE VISION

Nation building by creating opportunities for rural and urban students through excellence in education and research in the field of Engineering and Management.



## INSTITUTE MISSION

- To develop the students for best academic and industrial practices by implementing innovative teaching learning methodologies, promoting all round development by giving exposure to series of activities.
- To prepare the students to face global challenges by equipping them with requisite technical expertise and developing entrepreneurship skills among them.
- To promote research attitude among faculty and students



## DEPARTMENT VISION

Develop proficient Civil Engineer with technical competency and managerial ability so as to contribute in nation building.



## DEPARTMENT MISSION

- To impart technical proficiency in Civil Engineering through quality teaching learning process
- To mentor Civil Engineering students for competitive services, higher studies and allied
- research to meet societal needs
- To inculcate managerial skills in students to evolve as an entrepreneur

*We,*

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*AT* **DIEMS**

*Develop proficient Civil Engineers with technical competency and managerial ability so as to contribute in nation building.*



# QUALITY POLICY

We are committed to follow par excellence teaching practices to meet global demand of competent and trained human personnel in engineering and technology sector by remaining accountable through self evaluation and operate with continual improvement withing the statutory and regulatory framework and review its policy and objectives regularly to ensure its effectiveness

# QUALITY OBJECTIVE

- To provide a sound academic environment to students for a complete learning experience
- To train the staff for all-round development of academic record
- To improve the industry institute interaction
- To promote R&D activity
- To strive for student's placement
- To organize co-curricular and extra-curricular activities



# DEAN ACADEMIC'S MESSAGE



**Dr. S.V.Lahane**  
**(Dean Academics, DIEMS)**

As we journey through our academic pursuits, it is paramount to recognize that success extends beyond subject-specific knowledge. Developing a diverse set of skills is instrumental in navigating the complexities of both academia and the broader world. Along with regular academics, DIEMS also cultivate different skills such as Critical Thinking, Effective Communication, Problem-Solving, Collaboration and Teamwork, Adaptability and Resilience,

Time Management within the students which are very much required for rapidly changing world. DIEMS always strive for a well-rounded education that encompasses not only academic knowledge but also these essential skills. Embrace opportunities within and beyond the classroom to enhance these skills. This will serve as a strong foundation for success in your academic endeavours and future careers.

# MESSAGE FROM HOD



**Dr. G.R.Gandhe**  
**(HOD, Dept. of Civil Engg.)**

On behalf of all our faculty, staff, and students, I would like to welcome you to the Civil Engineering Department at Deogiri Institute of Engineering and Management Studies, Aurangabad. As a Head of the department, I am extremely proud of our role in providing high quality education and hands-on experience to our students. Right from its inception in 2009, the Civil Engineering Department has earned tremendous reputation for qualitative teaching-learning process, meaningful teacher-student interactions, state-of-the-art laboratories, and well qualified faculty; positively contributing to the community through teaching, research and consultancy activities.

With a well-planned mission and untiring efforts of our highly committed faculty, staff and students, the department is striving hard to develop proficient Civil Engineer with technical competency and managerial ability so as to contribute in Nation Building. Our department is constantly working towards all-round skill development of our students by organizing Expert talk by Industry persons, Industrial Visits, Seminars, Inspire talks, workshops, conferences. Apart from this, Civil Engineering Department is providing Engineering Consultancy services for various Government as well as private construction projects. I am very proud to inform you that DIEMS is the First Engineering Institute in the Marathwada region having NABL accreditation for Civil Engineering laboratories.



# ACTIVITY REPORT

## INDUSTRIAL VISIT



**Name of the Event-**  
Industrial Visit

**Date of visit-** 26/09/2023  
& 27/09/2023

**Name of Industry-** Ready  
Mix Concrete Plant, Raj  
Buildcon, Chikalthana,  
Aurangabad



**Summary of the event-**  
Students visited RMC plant  
to study concrete mixing  
procedure.

**Outcome-** Students were  
able to learn concrete  
mixing process thoroughly



**No. of Students  
Participated-**109

## INDUSTRIAL VISIT



**Name of the Event-**  
Industrial Visit

**Date of visit-** 21/09/2023

**Name of Industry-** Ready  
Mix Concrete Plant, Raj  
Buildcon, Chikalhana,  
Aurangabad

**Summary of the event-**  
Students visited RMC plant  
to study concrete mixing  
procedure.

**Outcome-** Students were  
able to learn the Concrete  
mixing process at RMC

**No. of Students  
Participated-**90



## INDUSTRIAL VISIT



**Name of the Event-**  
Industrial Visit

**Date of visit-** 26/09/2023  
& 27/09/2023

**Name of Industry-** Water  
Treatment Plant, 392  
MLD, Kanchanwadi,  
Aurangabad



**Summary of the event-**  
Various processes involved  
in treatment of water were  
shown to students. Plan  
and design of WTP was  
shown to students.  
Capacity of WTP, onsite  
details were discussed with  
students.

**Outcome-** Students were  
able to understand the  
details of WTP such as  
capacity, plan, design,  
processes involved in  
treatment of water  
construction details etc



**No. of Students  
Participated-**109

**EXPERT TALK**

1

**Name of the Event-Expert talk on Practical Challenges & Opportunities in Civil Engineering**

**Date -27-09-2023**

**Name of Speaker/company-  
Er.Pranav Darakh, Proprietor,  
Prakriti Construction**

**Summary of the event- Speaker discussed about importance of Civil engineering stream opportunities in civil engineering in various sectors, challenges in working in different sectors**

**Outcome- Students were able to understand the the different opportunities and challenges in Civil Engineering**

**No. of Students Participated-55**

2

**Name of the Event-Expert Talk on Usage of Slag Products for Sustainable, Durable and Green Concrete**

**Date -13-09-2023**

**Name of Speaker/company-  
Suvankar Pal Mujumdar, Senior  
Manger, JSW Cement**

**Summary of the event- Speaker discussed about various types of concrete, Green Concrete, necessity and importance of Green Concrete, Usage of slag products for Green Concrete**

**Outcome- Students were able to understand the importance and necessity of Green Concrete in construction. Also they were able to study about the use of slag products for Green concrete**

**No. of Students Participated-53**

**EXPERT TALK**

3

**Name of the Event-Expert Talk on Exploring Development Opportunities in Civil Industry**

**Date -20-11-2023**

**Name of Speaker/company- Mr.Avinash Sakhare, Business Development Officer**

**Summary of the event- Expert discussed about his role as a business development officer. He discussed about skills required for Engineers in growing Civil Industry, various areas in which Civil Engineers can make good career**

**Outcome- Students were able to understand the need of the growing Civil Industry and the development opportunities in the Industry**

**No. of Students Participated-52**

4

**Name of the Event-Expert Talk on BIM Best Digital Engineering Platform for Civil Engineer**

**Date -04-10-2023**

**Name of Speaker/company-Er. Bhausahab Kondiba Pazade, BIM Associate Engineer & Trainer**

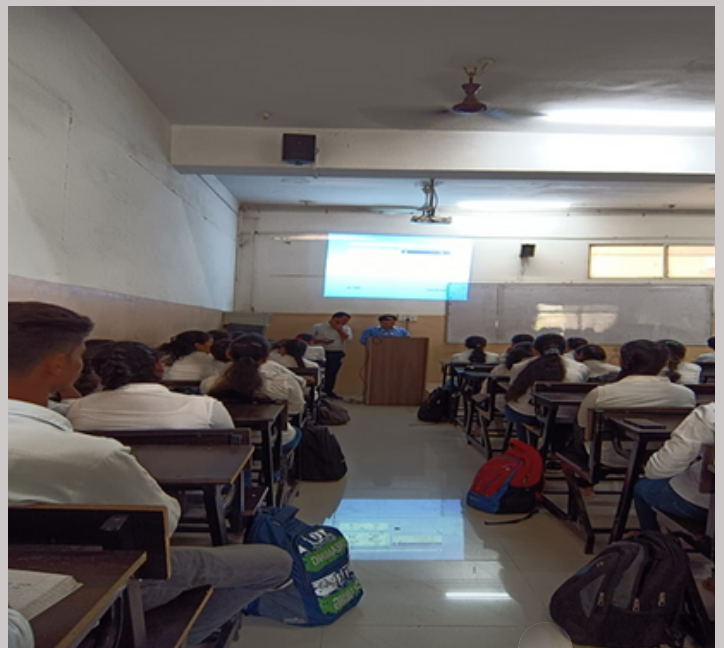
**Summary of the event- Expert discussed about importance of Civil Engineering in development process, new courses and technologies for Engineers, optimization in Civil Industry, Building Information Modelling concept in detail**

**Outcome- Students were able to understand the BIM for construction**

**No. of Students Participated-50**

# EXPERT TALK

## PHOTOGRAPHS



# Faculty Publications

<i>Sr No</i>	<i>Author</i>	<i>Title of Paper</i>	<i>Journal</i>
1	Dr.Gajendra Gandhe, Dr.Durgesh H. Tupe	<i>Beam Displacement analysis under stress: A Review</i>	<i>Journal of Indian School of Political Economy, Vol. 35, No. 2</i>
2	Dr.Gajendra Gandhe, Dr.Durgesh H. Tupe	<i>To Concentrate on Plan and Investigation the impact of warm and physical load on essentially upheld steel shaft</i>	<i>Humanities and Social Science Studies, Vol. 12, Issue 2, No. 5</i>
3	Dr.Gajendra Gandhe, Dr.Durgesh H. Tupe	<i>Beam Examination of Horizontal obstruction Framework to lessening Relocation in Multistorey Building</i>	<i>A Journal of Historical Research, Vol. 53, Issue 3, No. 2</i>
4	Dr.Gajendra Gandhe, Dr.Durgesh H. Tupe	<i>Analysis of Floating Column</i>	<i>Journal of the Oriental Institute, Vol. 72, Issue 3, No. 4</i>
5	Dr.Gajendra Gandhe, Dr.Durgesh H. Tupe	<i>A Study of Concrete having the partial replacement of Ceramic Tile waste with crushed sand</i>	<i>Rabindra Bharati University Journal of Economics, Vol. XXVII, No. 2</i>

# Faculty Publications

<i>Sr No</i>	<i>Author</i>	<i>Title of Paper</i>	<i>Journal</i>
6	Dr.Gajendra Gandhe, Dr.Durgesh H. Tupe	<i>Examination of Seismic way of behaving of multi storied RCC working with contact dampers and liquid thick dampers</i>	<i>South India Journal of Social Sciences, Vol. XXI, No. 5</i>
7	Dr.Gajendra Gandhe, Dr.Durgesh H. Tupe	<i>A proportional Addition of Basalt Fiber in an Experimental Examination of Concrete</i>	<i>Journal of Xidian University, Vol. 17, Issue 9</i>
8	Dr.Gajendra Gandhe, Dr.Durgesh H. Tupe	<i>The Ideal mix ratio for using Eggshell powder in Concrete to Replace Some of the Cement</i>	<i>Journal of Xidian University, Vol. 17, Issue 9</i>
9	Dr.Gajendra Gandhe, Dr.Durgesh H. Tupe	<i>Analysis of Simply Supported Laminated Beam using Shear Deformation Theory</i>	<i>Journal of Propulsion Technology, Vol. 44, No. 4</i>
10	Dr.Amena.I. Tamboli	<i>Analysis of Land Surface Temperature Fluctuations Using Remote Sensing Data</i>	<i>IEEE explorer</i>



# Faculty Publications

<i>Sr No</i>	<i>Author</i>	<i>Title of Paper</i>	<i>Journal</i>
11	Dr.Amena.I. Tamboli	<i>Study on Influence of Seasonal Freeze- thaw Environment on Crack Evolution of Expansive Soil in Subgrade Based on Genetic Algorithm</i>	<i>IEEE explorer</i>
12	Dr.Amena.I. Tamboli	<i>A study on recent advances in phase change material and its experimental assessments in masonry construction technology</i>	<i>springer-Journal of Building Pathology and Rehabilitation</i>
13	Dr.Amena.I. Tamboli	<i>An analysis into the various aspects of phase change material, its properties and applications in diferent felds</i>	<i>springer- Asian Journal of Civil Engineering</i>
14	Dr.Amena.I. Tamboli	<i>CARBON NANOTUBES IMPROVE PCM'S HEAT TRANSPORT CHARACTERISTICS: DURING SOLIDIFICATION</i>	<i>Journal of Propulsion Technology, Vol. 44, No. 4</i>

# SPECIAL ACHIEVEMENTS

## PATENT

### Title- A system and method for measuring concrete strength

**PATENTEE-1.DR.G.R.GANDHE 2.DR.RAJESH M AUTEE 3.ULHAS S 4.MIRZA ZUBAIR BAIG 5.KUNAL V. BHOJWANI 6.MEHWAS AHMED 7.SHWETA D BHISE 8. ARATI M PATIL 9.PRACHI M MANOHAR 10. SAKSHI SAWJI**

**PATENT NUMBER - 493185**

**INTELLECTUAL PROPERTY INDIA**  
**भारत सरकार, औद्योगिक संपत्ति कार्यालय, नया दिल्ली**  
**भारत**

**पेटेंट कार्यालय, भारत सरकार** | **The Patent Office, Government Of India**  
**पेटेंट प्रमाण पत्र** | **Patent Certificate**  
**(पेटेंट नियमवली का नियम 74)** | **(Rule 74 of The Patents Rules)**

**पेटेंट सं. / Patent No.** 493185  
**आवेदन सं. / Application No.** 202021015024  
**प्राहल करने की तारीख / Date of Filing** 05/04/2020  
**पेटेंटी / Patentee** 1.Gajendra R. Gandhe 2.Rajesh M.Auttee 3.Ulhas D. Shiuikar 4.Mirza Zubair Baig

**प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में प्रकटित A SYSTEM AND METHOD FOR MEASURING CONCRETE STRENGTH नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख अर्थात् 2020 के पांचवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुमत किया गया है।**  
**It is hereby certified that a patent has been granted to the patentee for an invention entitled A SYSTEM AND METHOD FOR MEASURING CONCRETE STRENGTH as disclosed in the above mentioned application for the term of 20 years from the 5<sup>th</sup> day of April 2020 in accordance with the provisions of the Patents Act, 1970.**

**अनुमति की तारीख / Date of Grant:** 02/01/2024  
**नियंत्रक, पेटेंट**

**नियम - इस पेटेंट के संरक्षण के लिए पेटेंट, यदि इसे बनाए रखा जाए, तो 2022 के पांचवें दिन से और उक्त अवधि समाप्त होने से छह दिन के भी Note - The fees for renewal of this patent, if it is to be maintained, will fall / has fallen due on 5<sup>th</sup> day of April 2022 and on the same day in every year thereafter.**

**INTELLECTUAL PROPERTY INDIA**  
**भारत सरकार, औद्योगिक संपत्ति कार्यालय, नया दिल्ली**  
**भारत**

**पेटेंट प्रमाणपत्र के लिए अनुसूचक/Annexure to Patent Certificate**

**पेटेंट सं. / Patent No.** 493185  
**आवेदन सं. / Application No.** 202021015024  
**प्राहल करने की तारीख / Date of Filing** 05/04/2020  
**पेटेंटी / Patentee (तारीख/Continued)** 5.Kunal Vinodkumar Bhojwani 6.Mehwas Ahmed 7.Shweta D Bhise 8.Arati M. Patil 9.Prachi Arjun Manohar 10.Samiksha S. Sawji

**नियंत्रक, पेटेंट**

# Empanelment Certificate

	<b>PUBLIC WORKS REGION</b> <b>CHHATRAPATI SAMBHAJINAGAR</b> Email Id:- <a href="mailto:aurangabad.ce@mahapwd.gov.in">aurangabad.ce@mahapwd.gov.in</a>	
<b>EMPANELMENT CERTIFICATE</b>		
Outward No/ Empanelment 2022/180		Date 24/ 1 /2024
<b>To,</b> <b>MARATHWADA SHIKSHAN PRASARAK MANDAL'S</b> <b>DEOGIRI INSTITUTE OF ENGINEERING AND</b> <b>MANAGEMENT STUDIES, CHHATRAPATI</b> <b>SAMBHAJINAGAR.</b>		
<b>Ref.:</b> 1)GR No. खाक्षेस/१०९५/प्र.क्र.२०९/रस्ते-९ अ, Dt. 24/01/2017. 2)Tender Notice No. RFQ Notice No.5 for Yr. 2022-2023 Dt. 6/9/2022 On the recommendation and approval of the Empanelment committee, dated 19/01/2024 This is to certify that ,		
<b>MARATHWADA SHIKSHAN PRASARAK MANDAL'S DEOGIRI</b> <b>INSTITUTE OF ENGINEERING AND MANAGEMENT STUDIES.</b>		
is constituted in the empanelment category of :		
<b>Structural Audit of Building</b>		
This empanelment will be valid upto February 2026,		
On behalf of Empanelment committee.		
 <b>Executive Engineer,</b> <b>World Bank Project Division,</b> <b>Ch. Sambhajinagar</b>		
<b>Copy to:</b>		
1 Chief Engineer, Public Works Region, Ch. Sambhajinagar for information.		
2 Superintending Engineer, Public Works Circle, Ch. Sambhajinagar / Osmanabad / Nanded, National Highway Circle, Ch. Sambhajinagar for information and necessary action.		



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