

# DEOGIRI INSTITUTE OF ENGINEERING AND MANAGEMENT STUDIES

## NEWSLETTER

JULY 2023 TO DECEMBER 2023



### ABOUT INSTITUTE

In The Pursuance with the Policies of Govt. of India to start Engg Colleges in Emerging Technologies. Deogiri Institute of Engg. And Management Studies is established at Aurangabad during The Academic Year 2009-10. Deogiri Institute of Engg. And Management Studies is affiliated to the Dr. Bababasaheb Ambedkar Technological University, Lonere. and is Developed as per the norms of All India Technical Education (AICTE).

### VISION OF INSTITUTE

Nation Building By Creating Opportunities For Rural And Urban Through Excellent Education & Research In The Field Of Engineering & Management

### MISSION OF INSTITUTE

- 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.

# CIVIL ENGINEERING DEPARTMENT

## FROM HOD'S DESK



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.

## VISION OF DEPARTMENT

Develop a proficient civil engineering with technical competency and managerial ability so as to contribute in nation building

## MISSION OF DEPARTMENT

- 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

# FACULTY ACHIEVEMENTS

## Research Papers Published

Gajendra Gandhe, Durgesh H. Tupe” Analysis of High Rise Building in Different Seismic Zones in India: Review” International Journal of Creative Research Thoughts, Vol. 11, Issue 7, JULY 2023, ISBN/ISSN no. 2320-2882

Sandip B. Deshmukh, Dr.G.R.Gandhe,“ Seismic Response of RC Frame Considering Soil Structure Interaction by Varying Soil type: A Review”, Journal of Applied Science and Computations, Vol. X, Issue VIII ,aug 2023 ISBN/ISSN no, 1076-5131

S.B. Deshmukh” Non-Linear Dynamic Analysis of Cable Stayed Bridge with Different Cable Arrangements” International Advanced Research Journal in Science, Engineering and Technology, Vol. 10, Issue 9 SEP 2023, ISBN/ISSN (Online): 2393-8021, (Print): 2394-1588

K.G.Patwari, Dr.Gajendra Gandhe “Dynamic Analysis of High-Rise Building in Different Seismic Zones in India with and without Fluid Viscous Dampers” Journal of the Maharaja Sayajirao University of Baroda, Vol. 57, No. 1, ISBN/ISSN: 0025-04.

## Industrial visit

Sr no.	Name of the company	Date of visit	No .of beneficiaries
1	Water and Land Management Institute, Aurangabad	01/16/2023	50
2	Advantage Maharashtra EXPO 2023, 'AURIC City, Aurangabad	01/08/2023	50

## Expert talk

Sr no.	Topic	Date	Name of the expert
1	Usage of Slag Products for Sustainable, Durable and Green Concrete	13-09-2023	Suvankar Pal Mujumdar Senior Manger, JSW Cement
2	Geospatial Technology and its Application	18-10-2023	Dr.Ajay Devidas Nagne Assistant Prof Dr.G.Y. Pathrikar College of Computer

# GLIMPS OF INDUSTRIAL VISIT

## AURIC CITY, SHENDRA MIDC, AURANGABAD

The Aurangabad Industrial City (abbrev. AURIC or Auric) is a Greenfield industrial smart city spread over an area of 10,000 acres (40 km<sup>2</sup>) near Aurangabad, Maharashtra, India. It is a part of the Delhi–Mumbai Industrial Corridor Project (DMIC), which plans to develop an industrial zone spanning across six states between India's DELHI is the financial hub, Mumbai. The Government of Maharashtra decided to develop the Shendra and Bidkin neighbourhoods of Aurangabad as a planned industrial township under DMIC.[2] Equipped with an underground plug and play infrastructure, 60% of the land in AURIC is for industrial usage, mainly focusing on textile, food, defence, engineering and electronics, while the remaining 40% is intended for residential, commercial and other purposes.



# GLIMPS OF INDUSTRIAL VISIT



## Water and Land Management Institute, Aurangabad

Water, land and soil are integral parts of the environment that need to be conserved and efficiently managed to enhance productivity, achieve economic growth and promote environmental quality. With the ever increasing population, there is a need to enhance agricultural productivity with scientific management of water, land and soil. An integrated approach in sustainable development and management of water and land resources is, hence necessary for success in State's efforts to alleviate poverty, food security and mitigate hardships of the people. Water and Land Management Institutes (WALMIs) were established in most of the states during 1980s. NWM envisages to collaborate with WALMI/Irrigation Research Institute for undertaking research, training/capacity building for enhancing Water Use Efficiency (WUE) in irrigation sector.



# MODULAR BUILDING

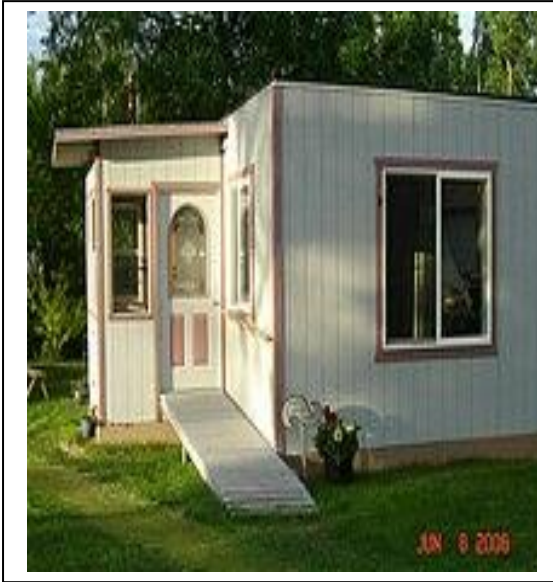
A **modular building** is a prefabricated building that consists of repeated sections called modules. Modularity involves constructing sections away from the building site, then delivering them to the intended site. Installation of the prefabricated sections is completed on site. Prefabricated sections are sometimes placed using a crane. The modules can be placed side-by-side, end-to-end, or stacked, allowing for a variety of configurations and styles. After placement, the modules are joined together using inter-module connections, also known as inter-connections. The inter-connections tie the individual modules together to form the overall building structure.

Construction is offsite, using lean manufacturing techniques to prefabricate single or multi-story buildings in deliverable module sections. Often, modules are based around standard 20 foot containers, using the same dimensions, structures, building and stacking/placing techniques, but with smooth (instead of corrugated) walls, glossy white paint, and provisions for windows, power, potable water, sewage lines, telecommunications and air conditioning. Permanent Modular Construction (PMC) buildings are manufactured in a controlled setting and can be constructed of wood, steel, or concrete. Modular components are typically constructed indoors on assembly lines. Modules' construction may take as little as ten days but more often one to three months. PMC modules can be integrated into site built projects or stand alone and can be delivered with MEP, fixtures and interior finishes.

The buildings are 60% to 90% completed offsite in a factory-controlled environment, and transported and assembled at the final building site. This can comprise the entire building or be components or subassemblies of larger structures. In many cases, modular contractors work with traditional general contractors to exploit the resources and advantages of each type of construction. Completed modules are transported to the building site and assembled by a crane. Placement of the modules may take from several hours to several days.



# MODULAR BUILDING



# EDITING TEAM

**Prof. Tupe D.H.**  
Coordinator

**Prof. Gandhe G.R.**  
Head of Department

**Mr. Jayesh Kashid**  
Editor In Chief

**Mr. Shantanu Solanke**  
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Writer

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Art Designer

**Mr. Anurag Bhalerao** Photo  
Manager

**Miss Anushka Gaikwad**  
Photo Manager



MARATHWADA SHIKSHAN PRASARAK MANDAL'S



## DEOGIRI INSTITUTE OF ENGINEERING AND MANAGEMENT STUDIES

Deogiri College Campus, Station Road, Aurangabad-431005 (M. S.)

PH. No. 0240 – 2367575, 2367555, 2367546, Email Id: [admin@dietms.org](mailto:admin@dietms.org) .Website: [www.dietms.org](http://www.dietms.org).