

Academic

Year

2016-17

DEPARTMENT OF CIVIL ENGINEERING

AN ANNUAL PUBLISHED NEWSLETTER

Constro

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Vision

Develop competent Civil Engineers and accomplish excellence in civil engineering discipline to fulfill ever-changing industry & societal requirements, for socio-economic growth of the nation.

Mission

- ⇒ To impart value-based technical education to develop skillful civil engineers.
- ⇒ To develop technically and socially responsible civil engineers by providing a platform among students with industry and alumni.
- ⇒ To provide a comprehensive education which prepare our students to be successful in engineering practices and advanced studies.
- ⇒ To prepare students for successful careers with the help of modern technologies and equipment.

Achievements



- ⇒ Proud moment to Civil Department in last year, that was our department was remarked with “Excellent” remark by MSBTE External Academic Monitoring committee for year 2016-17.
- ⇒ 100 % placement for last year eligible students.
- ⇒ Civil Engineering Department faculties got 1st Rank in Quality Circle forum for academic year 2016-17 .
- ⇒ The result of Third Year Civil class for academic year 2016-17 is 100%.
- ⇒ K. P. Mali got Gold Medal in NPTEL online Course, which is organized, by IIT Madras.
- ⇒ Student of TY class Mr. Viraj Bachal secured 2nd Rank in Paper Presentation at Government College of engineering Karad.

List of Toppers**TY 2016-17**

- ⇒ 1. Patil Amruta Daultrao 86.81 % (Distinction)
- ⇒ 2. Yadav Akshaykumar Arun 82.72 % (Distinction)
- ⇒ 3. Desai Dheerajkumar Bhaskarrao 81.67 % (Distinction)

SY 2016-17

- ⇒ 1. Walvekar Amruta Anil 82.33 % (Distinction)
- ⇒ 2. Shelke Mohini Vijay 82.17 % (Distinction)
- ⇒ 3. Karnale Sourabh Shashikant 78.81 % (Distinction)

Program organized by department

- ⇒ Entrepreneurship Awareness Camp, At Rajarambapu Institute of Technology, By Mr. A. B. Hangande, From 06/02/2017 to 08/02/2017, The resource person from N.Y.A.D.C, Pune
- ⇒ Entrepreneurship Awareness Camp, At Rajarambapu Institute of Technology, By Mr. A. B. Hangande, From 14/09/2017 to 06/09/2017, The resource person from Sanjeevani Development and Training Centre, Sangli.

Training Program Attained by faculties

- ⇒ “Industrial Training Program” at L & T Ltd., Panvel , By Mr. S. S. Ingale, From 07/02/2017 to 11/02/2017 , The program organized by L & T Construction Skills Training Institute
- ⇒ “National Teachers Congress”, At MIT Pune, By Mr. S. S. Ingale, From 23/9/2016 to 25/9/2016, The resource person from MIT, Pune.
- ⇒ “Entrepreneurship Development Program, At GPHMC, Nagpur , By Mr. Mr. A. B. Hangande, From 19/12/2016 to 23/12/2016, The program organized by MSBTE.
- ⇒ “Foundation program in ICT for Education”, Attained by Mr. D. V. Patil, The program organized by IIT, BOMBAY.
- ⇒ “Foundation program in ICT for Education”, Attained by Mr. Mr. V. T. Hulwane, The program organized by IIT, BOMBAY.

"Practical approach towards building construction" by Er. S.S.Kumbhar



"Water Quality Improvement" by Prof. S. S. Kumbhar



Visit to Indian Hume Pipe Factory, Miraj.



Visit to Railway Station, Miraj Junction.

Expert Talk

"Steel Structures Connection Design" by Prof. J.A.Pendhari



"Use of ICT for Civil Engineering" by Er. V. T. Hulwane



Visit to Water Treatment Plant, Islampur.



Industrial Visits



Visit to Stone Crusher

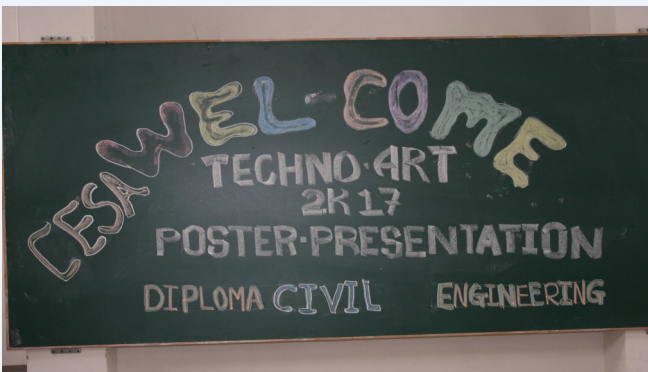
Events



Fresher's



Teachers Day



Poster Presentation



Virangula 2017



Street Play

Technical View

Digital fabrication in architecture

Society faces enormous challenges in constructing high-quality, future-oriented built environments. Construction sites today look much like the building sites did at the beginning of the 20th century. Current research on digital fabrication in architecture indicates that the development and integration of innovative digital technologies within architectural and construction processes could transform the building industry -- on the verge of a building industry 4.0. Digital technologies in architecture and construction could increase productivity creating new jobs.

Many building processes still involve sub-standard working conditions and are not compellingly sustainable. Current research on the integration of digital technologies within construction processes promises substantial contributions to sustainability and productivity, while at the same time enabling completely new forms of architectural expression. The multidisciplinary nature of integrating digital processes remains a key challenge to establishing a digital building culture. In order to fully exploit the potential of digital fabrication, an institutional and funding environment that enables strong interdisciplinary research is required. Traditionally separated disciplines such as: architecture, structural design, computer science, materials science, control systems engineering, and robotics now need to form strong research connections.

-Mr. Sanket Disale

(T.Y. Civil)



Eco-friendly concrete created

In the future, wide-ranging composite materials are expected to be stronger, lighter, cheaper and greener for our planet, thanks to a new invention. Nine years ago, an American researcher invented an energy-efficient technology that harnesses largely low-temperature, water-based reactions.

Mr. Riman, a professor in the Department of Materials Science and Engineering, invented an energy-efficient technology that harnesses largely low-temperature, water-based reactions.

So far, the revolutionary technology has been used to make more than 30 different materials, including concrete that stores carbon dioxide, the prime greenhouse gas linked to climate change.

A promising option is creating materials for lightweight automobiles, said Riman. The materials could be used for engine, interior and exterior applications. Other materials could perform advanced electronic, optical and magnetic functions that replace mechanical ones. - Miss. Mohini Shelake (S. Y. Civil)

Lattice structure absorbs vibrations

Researchers have developed a lattice structure capable of absorbing a wide range of vibrations while also being useful as a load-bearing component -- for example, in propellers, rotors and rockets. It can absorb vibrations in the audible range, which are the most undesirable in engineering applications.

Vibrations from a bus engine can sometimes be felt uncomfortably strongly through the seats. Similarly, vibrations from the propellers or rotors in propeller aircraft and helicopters can make the flight bumpy and loud, and also lead to increased fatigue damage of the aircraft and its components. Engineers have therefore sought to prevent such vibrations in machines, vehicles and aircraft. A new three-dimensional lattice structure developed by ETH scientists could now expand the possibilities of vibration absorption.



- Mr. Yadav Akshaykumar (T. Y. Civil)