

DTE CODE: 3460



Universal College of Engineering

(Permanently Unaided | Approved by AICTE, DTE & Affiliated to University of Mumbai)

Recognised as GUJARATI Linguistic Minority Institution | Accredited with B+ Grade by NAAC

Department of Civil Engineering

THE SECOND BEST CREATOR IS A CIVIL ENGINEER



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About the Institute



Library

About the Institute

Universal College of Engineering (UCoE) has a peaceful environment for students to focus on education. The Internal Quality Assurance Cell (IQAC) of the Institute takes great initiative and efforts to conduct various activities in the Institute as a step to improve and maintain the quality of the Institute. Times of India Survey Ranked No. 1 emerging institute in INDIA for 6 Consecutive Years.

Vision

To be a forerunner in rendering quality technical education with a multifaceted, research-oriented approach, aspiring for the excellence of students in the professional and social realm which spans across wide and diverse horizons of opportunities.

Mission

- To boost the holistic development of the students with an emphasis on technical education including towards socially relevant research.
- To promote a learning ambiance which further enhances innovation, creativity, team spirit, rational and scientific temperament thus making them successful world citizens of present and future
- To yield efficient professional with the highest level of ethics and leadership skills, well equipped to face the industry demands.



Campus Director, Dr. J.B. Patil at Open Classroom



About the Department of Civil Engineering

About the Department of Civil Engineering

The four-year fulltime B.E degree in Civil Engineering at UCoE is affiliated to the University of Mumbai. We aim to provide competent Civil Engineers with a proper amalgamation of Engineering theory with practical visits to construction sites, highway projects, airports, and dams. Civil Engineering students are broadly trained and able to deal with the latest technologies.



Classroom

Department Vision

To excel in every area of Civil Engineering, inculcate research-oriented study to explore hidden talent. Providing Opportunity to display creativity, out of the box thinking & innovativeness, aimed at providing cutting edge technology for sustainable development.

Department Mission

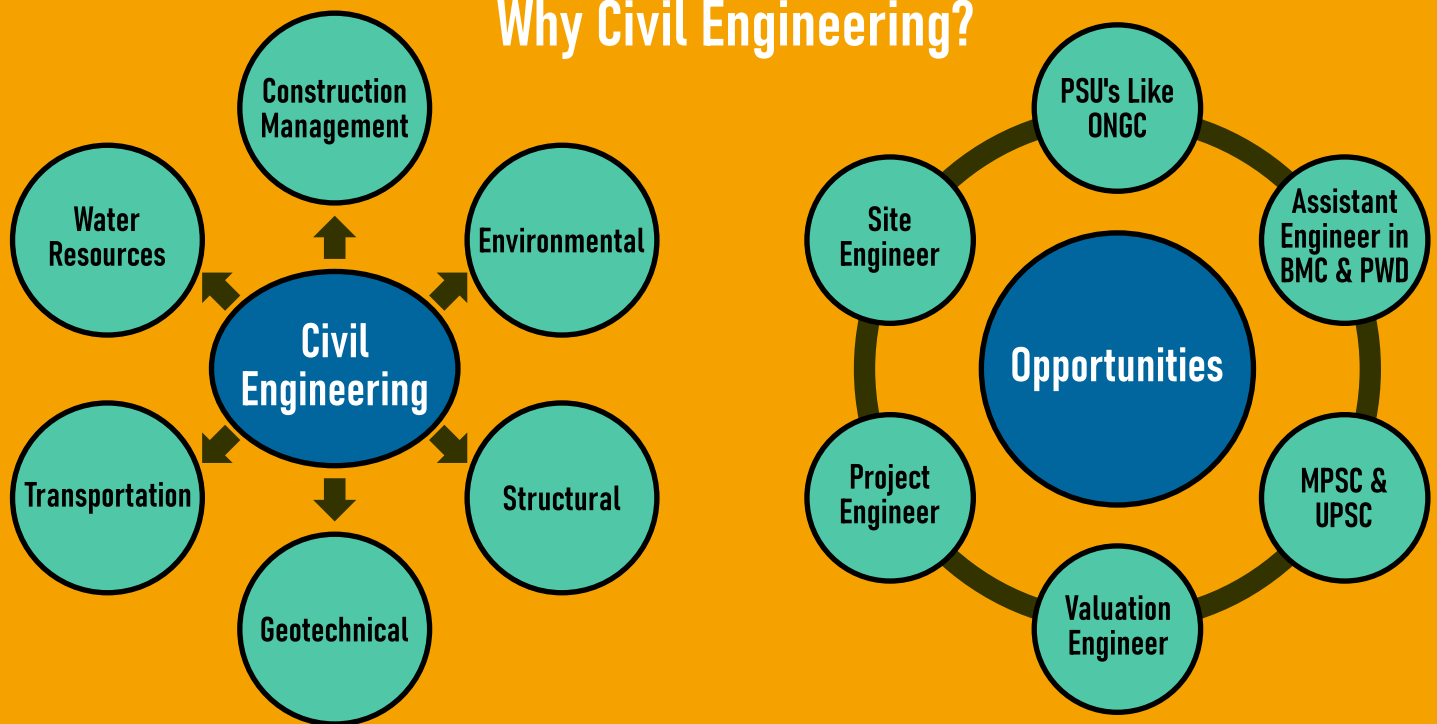
- Providing qualified, motivated faculties to deliver the content using updated teaching methodology, inviting industries experts from various areas to disseminate subject knowledge in Civil Engineering.
- Motivating students to undertake the Research-Oriented studies, participants in competitions at all levels, grasping new techniques and methods which can be improved further.
- Conducting and participating in seminars, workshops, and training programs to make the students' industry ready and improve their employability factor for a global career ahead.
- To create quality professionals capable of planning, designing, and analytical skills for better infrastructural development in the field of Civil Engineering.

For more details visit: <https://universalcollegeofengineering.edu.in>

Career Opportunities

Civil Engineering is one of the oldest engineering disciplines because it deals with the constructed environment including planning, design, and overseeing constructed and maintenance of building structures, facilities, such as roads, railroads, airports, bridges, harbors, channels, dams, irrigation projects, pipelines, power plants and water and sewage system.

Why Civil Engineering?



A rare feature in engineering colleges is a wind tunnel. Our college has set up a Wind tunnel for the Department of Civil Engineering. To support our honorable Prime Minister's Unnat Bharat Abhiyan vision we have adopted 5 villages in Poman, Vasai under UBA activity for which we have also received a grant of 50,000/- and are working on human development and sustainable development of these villages.

About ACES

Association of Civil Engineering Students (ACES) at UCoE is a Civil Engineering Students chapter of The Institution of Engineers (India) established in 2018. It unites all Civil Engineering students of Universal College of Engineering and works for the advancement of technology and sustainable development. We also received an Active Student Chapter Award- IEI, Belapur Local Centre.



Association of Civil Engineering Students

Faculty Details



Dr. Jitendra B. Patil
Principal & Campus Director UCoE



Mr. Rajesh Dubey
H.O.D, Civil Engineering

Environmental Engineering



Ms. Shilpa Patil



Mr. Yuvraj Chavda



Mr. Sujit Tare

Structural Engineering



Mr. Nikhil Sontakke



Mr. Asir Khan

Transportation Engineering



Mrs. Mitali Poojari

Water Resources Engineering



Mr. Sachin Pawar

Geotechnical Engineering



Mr. Naved Qureshi



Ms. Swapnali Onkar



Mr. Shreyans Dodia



Mr. Sagar Butle



Mr. Swapnil Wani

Construction Management

Industry Institute Interaction

To create employable and readily absorbable aspirants for the Industries, we have collaborated with Industry personnel from various domains of Civil Engineering. All the course contents are designed as per the requirement of the industries to bridge the gap between academia and industry expectation.

Current Courses

1. Formwork Design: In the construction world any structure cannot take a shape without formwork. To help understand students and give them a career perspective about formwork the "FORMWORK DESIGN" course is started under the expertise of:

Mr. Umang Bavsar –

- Leading the Technical department and Heading Central zone at PERI INDIA Pvt Ltd.
- He is one of the first three employees of PERI in Indian operation which was established in 2006.



Number of students enrolled: 150

2. Structural Engineering: As students graduating in Civil Engineering must know how important Structural Design and its work is the "Structural Engineering Practices" is started. The syllabus suggested by the Industry representatives "STRUCTURAL ENGINEERING PRACTICES" was formally put up in the shape of VI courses (one course per semester) to start with 3rd Semester and end it by the 8th semester under the expertise of:

- Mr. Girish David- Director at Sterling Engineering Consultancy Services Pvt. Ltd.
- Mr. Nikhil Shanghvi- CEO at Shanghvi and Associates Consultants Pvt. Ltd.



Number of students enrolled: 99

3. Concrete Technology: Concrete is the most important aspect of construction to know the process of concrete design and it's working "CONCRETE TECHNOLOGY PRACTICES" is started under the expertise of:

Mr. Suhas Dhuri-

- ACC R & D division from 1980 till 2005
- Has 40 years of experience in concrete



Number of students enrolled: 125

Campus Placements

Students work hard each year to achieve their goal by getting a better job so that they can fulfill their dream and these dreams are fulfilled here in our campus placements.





Mr. Hardik Gada
CTC : 10 LPA
Jaro Education





Mr. Yash Parikh
CTC : 12 LPA
Jaro Education




Mr. Dhruvesh Makwana
CTC : 10 LPA
UpGrad



Mr. Sanket Kanekar
CTC : 10 LPA
Toppr



Mr. Sidhshesh Nakashe
CTC : 10 LPA
Toppr



Higher Education in Abroad Universities

Students with greater goals pushed themselves more and went for higher education. Students graduated from UCoE pursued their higher education from known universities like The University of Melbourne, University of Texas Arlington, Heriot-Watt University, and many more.



Internships



240+ Students
(AY 2019-20)



6 Weeks
Duration



National as well as International Organisations
(Private/Government)

مجموعة بن لادن السعودية
SAUDI BINLADIN GROUP



JOHN HOLLAND

Ural Federal University
named after the first President of Russia B. N. Yeltsin

OBEROI REALTY

Shapoorji Pallonji

Since 1980
J. Kumar
ISO 9001 : 2015
ISO 14001 : 2015
OHSAS 18001 : 2007

DIKSHA

The Civil Engineering department has collaborated & signed MOU's with different organizations, for the more beneficial learning experience of students, such as.



COLLABORATION



TEKBURO ENGINEERING PVT. LTD.

NEWMAT.
STRETCH CEILINGS

OM SAI CHARAN BUILDERS
"Quality You Can Count On"

EduCADD
Leaders Through Quality Education

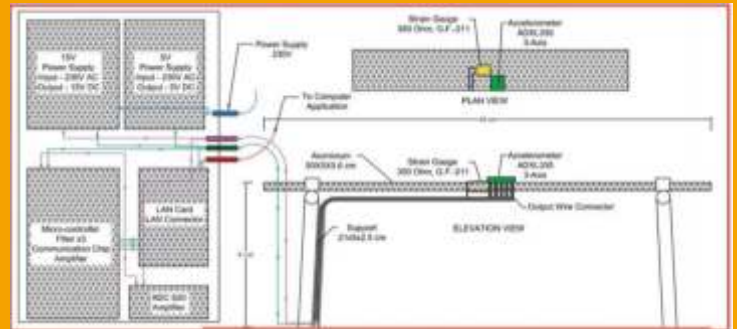
CADD CENTRE

Swapnashilp

Real-Time Projects & Research

Students have experimented innovative projects under the guidance of dedicated faculties

1. Real-time structural health monitoring system by Mr. Vijay N. Jamariya under the guidance of Mr. Yuvraj R. Chavda.
The proposed real-time monitoring system provides valuable information for timely maintenance and repair of structures and accurate information about structural conditions of a structure



2. Design Monitoring Items Design of Cycle Track from Sakinaka to JVLR Flyover, Milind Nagar, Andheri East by Mr. Mahesh Biradar, Mr. Vinayak Jarali, Mr. Nitesh Toraskar under the guidance of Mr. Sagar Butle.

By designing a bicycle-friendly infrastructure, they have provided citizen safety and confidence to ride the bicycle and also stated the benefits of choosing this mode of transportation where people can help improve their health and also contribute to reducing the carbon footprint.

3. Generation of electricity using vertical axis wind turbine at the median of roads by Sumit Gupta, Kishan Das, Yash Tiwari guided by Mr. Asir Khan.

Wind energies generated by high-speed vehicles on expressways can be utilized for good results. This could be further enhanced by a blade set-up on the medians.



4. Real-Time Slope Failure Prediction System by Pritesh J Mewada, Sakshi V Singh guided by Mr. Yuvraj Chavda.

Based on this project it can be said that achieving or developing such a system that predicts slope failure before it occurs and alerting the people traveling through such zones is possible soon.

Add-on Courses

The Department of Civil Engineering ensures the overall development of our students and for that, we provide add-on courses on software such as AUTOCAD 2D, QUANTITY TAKE OFF, REVIT DESIGN.

Name of course	Year of offering	No. of students
AutoCAD 2D	2018-19	45
Quantity Takeoff	2018-19	45
AutoCAD 2D	2017-18	42
Revit design software	2019-20	30

 **AUTODESK®
REVIT®**

 **AUTODESK
AUTOCAD**

Autodesk®
Quantity Takeoff

Do more costing and less counting. Keep everything digital and up-to-date with fast, accurate, and detailed materials reports.



National Service Scheme (N.S.S)

Department of Civil Engineering is actively taking part in NSS activities every year, selflessly contributing towards a better future.



Students Achievements

Civil Engineering Students in Students Council

Technical Secretary	Neelkumar Wala
Joint Technical Secretary	Shubham Sawant
Cultural Secretary	Varad Gadgil
Joint Cultural Secretary	Ninad Jadhav
Sports Secretary	Priyanka Said
Joint Sports Secretary	Daivik Shetty
Joint Creative Head	Sayani Paul
Joint Creative Head	Radhey Joshi
Discipline Head	Saurabh Saramble



Civil Engineering Winner at IIT Events

Amalthea, Gandhinagar	Winners, 2017
Techfest, Mumbai	Winners, 2017
Aakar 2k18, Bombay	Winners, 2018
Elan N Vision, Hyderabad	Winners, 2018
Techkriti, Kanpur	Winners, 2018
Megalith, Kharghar	1st Runner up
And Many More	



Winners of Aurora (Sports & Cultural)



Industrial Visits

Informative Industrial visits have enhanced learning experience

Bhandardara Dam Industrial Visit

On 9th October 2019 students of BE visited Bhandardara Dam to learn about the working of the dam and various sections of the dam.



Lavasa City Industrial Visit

On 29th February 2020, 99 students and 4 faculties of BE visited Lavasa City. A smart city situated in the District of Pune to know about the internal work of the planned city and the technical problems faced during the planning stage.

Survey Project Field Visit At Khopoli

On 22nd January 2020, 132 students of Second Year had attended a 4 days survey project at Khopoli. where students used theoretical knowledge on the field to tackle with given site conditions and executed various survey projects by using different Surveying instruments.



Visit To RMC Plant

Concrete is the heart of Civil Engineering. To make students aware of new technology used on site for batching, proportioning and mixing of concrete RMC plant visit was organized. 63 students and 16 faculties visited Build Core RMC Plant, Naigaon, Vasai East.

ACES

Association of Civil Engineering Students (ACES) Events

Students have attended various seminars to gain knowledge and expertise in the subject. ACES body have done their best in organizing the best expert lectures and seminars. GATE exams preparing and appearing students were also benefited as Webinar for them was also conducted.



International Publications

Name of the Faculty	Title of the Paper	Name of Journal	Year of Publication
Mr. Rajesh Dubey	Manufacturing of bricks from Industrial Waste	IJRAR	2018-19
Mr. Asir Khan	Generation of Electricity Using Vertical Axis Wind Turbine at A Median of Roads	IJRAR	2018-19
	Analysis of Walking Speed of Pedestrian at Suburban Locations of Mumbai.		
	Influence of Variation in Travel Cost for Work and Educational Trips in A Metro City-A Case Study of Mumbai.		
	An Accident Prediction Model for Divided Highway. Case Study of Bhiwandi City.		
Mr. Nikhil Sontake	A Structural Analysis of Solid and Hollow Rectangular Building A Review.	IJISRT	2018-19
	Earthquake Resistant Buildings Techniques: A Review.		
Mr. Shreyans Dodia	Guidelines to Be Followed for Detailed Estimation of Repair Works of Residential Structure.	IJRAR	2018-19
	Diagnosis and Detection of Leakage in Residential Buildings in Mumbai, India		
Mr. Yuvraj Chavda	Comparative Study of Dynamic Response of Monolithic and Rocking Columns Under Earthquake Accelerations Using Finite Element Analysis.	IJARET	2018-19
	Manufacturing of Bricks from Industrial Waste.	IJRAR	
Mr. Sachin Pawar	Impact of Chemical on Construction Industries.	JETIR	2018-19
	Impact of Rera On Builders and Buyers.		
Mr. Naved Qureshi	Comparative Study of Conventional Retaining Wall and Mechanically Stabilized Earth Wall Using Plaxis 2d.	IJTICES	2018-19
Ms. Shilpa Patil	Sequencing Batch Reactor for Wastewater Treatment: Advanced Technology.	JETIR	2018-19
	Solid Waste Management at Individual Level		
Mr. Sagar Butle	Preparation and Review of Translucent Concrete.	JETIR	2018-19
Ms. Swapnali Onkar	Geopolymer Concrete-A Prestigious Futuristic Material for Industrial Construction.	IJRAR	2018-19
	Experimental Study of Horizontal Axis Wind Turbine		

Laboratory Details

The Department of Civil Engineering boasts state of art laboratories



Applied Hydraulics Lab



Geology Lab



Strength of Material Lab



Concrete Lab



Building Material & Concrete Technology Lab



Fluid Mechanics Lab

Location



Training & Placement Officer

Mr. Venkatesh

venkatesh.r@universal.edu.in

+91 78877 47351



Scan for College Location

Universal College of Engineering
Near Bhajansons & Punyadham,
Kaman Bhiwandi Road,
Vasai, Palghar-401208.



Visit our Website



Visit our Facebook page