DTE Code: 3460

Vidya Vikas Education Trust's

Universal College of Engineering

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

Accredited with B+ Grade by NAAC

Gujarati Linguistic Minority Institution

AICTE   DTE   UNIVERSITY OF MUMBAI

RANKED No.1 IN INDIA* by **TimesEngineering**

An OMS Initiative with
THE TIMES OF INDIA
*among Emerging Engineering Colleges

for 6 Consecutive Years
2015, 2016, 2017, 2018, 2019 & 2020

BACHELOR OF ENGINEERING (B.E.)

• DATA ENGINEERING • ARTIFICIAL INTELLIGENCE & MACHINE LEARNING*
• CIVIL • INFORMATION TECHNOLOGY • COMPUTER
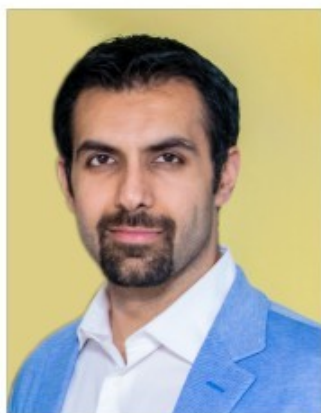• ELECTRONICS AND TELECOMMUNICATION (only for Direct Second Year)

College Prospectus
(2021-2022)

*New age courses from 2020-21

Contents

Message From Chairman

Mr. Jesus Lall
Chairman

We all at Vidya Vikas Education Trust's Universal College of Engineering, welcome students from all over India who demand the best available Engineering Degree.

When we set out to design our engineering programme, we started with a clean slate instead of just adding another institute of engineering in the mould of the existing ones. We asked ourselves – can an engineering college really balance engineering theory with practical skills, local knowledge with a global perspective and academic rigour with all-round development? Importantly in today's times, can an engineering college help students understand that doing good is as important as doing well? In the answers to these questions, emerged a confluence of factors that have shaped our programme.

An extraordinary experience awaits you at Vidya Vikas Education Trust's Universal College of Engineering .To find out more first hand, I would like to invite you to visit us on campus or visit our website www.ucoe.edu.in, where you will receive a warm welcome, whatever your interest, whether it be as potential student, faculty or recruiter.

Advisory Board

Mr. Amrish Patel
Chancellor of NMIMS University

Shri. Amrish Patel, current President and Trustee of Shri Vile Parle Kelavani Mandal, which runs 69 schools and 13 colleges including D. J. Sanghvi College of Engineering, Bhagubhai Polytechnic College, N. M. College, Mithibai College and others. He is also Chancellor of prestigious N.M.I.M.S. which has completed 34 years of establishment & accorded the Deemed University status in 2003 by the Government of India, as per UGC recommendations. Under his able leadership, the University has grown phenomenally, venturing into areas as diverse as technology, pharmacy, architecture, analytical science, commerce and business education.

Mr. Jagannath Shetty
Partner and Chief Executive Officer,
AVENUE VENTURE PARTNERS

Dr. Parvinder Singh Pasricha
Former DGP, Maharashtra,
Former SP, Nashik and Former
Commissioner of Police, Mumbai.

Mr. Krishnaswamy V.
Ex - President and Chief Operating Officer,
KARUR VYSYA BANK

About the College

Embraced by lush greenery and scenic beauty, Universal College of Engineering (UCoE) is a treasured place for aspiring engineers to leave their imprints towards success. As a college within the wider network frame, we are one of the fastest growing institutions in India. Our Institute has been accredited by National Assessment and Accreditation Council (NAAC) with B+ grade in the first cycle of accreditation. 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 in INDIA among Top Emerging Private Engineering Institutes for 5 Consecutive Years 2018, 2016, 2017, 2018 & 2019 and the saga of accolades still continues.

In response to the expectations of quality technical education our college is approved by the All India Council for Technical Education (AICTE), New Delhi; Recognized by the Directorate of Technical Education (DTE), Government of Maharashtra; affiliated to University of Mumbai and offers 4 years full-time Bachelor of Engineering in Computer Engineering, Civil Engineering, Information Technology, Electronics and Telecommunication Engineering (only for direct second year), Data Engineering, Artificial Intelligence and Machine Learning. The unique state-of-art facility of the institute has been carefully designed to accommodate the needs of the students. Laboratories are equipped with world class facilities based on the latest technology pertaining to different sectors. Our smart classrooms are well ventilated, spacious and equipped with overhead LCD projectors along with a public address system.

College Library provides a rich collection of specialist library resources and services to support students' academic work and enrich their research skills. Association of the institution with professional bodies like IEEE, IETE, ISA, CSI, IEI to update the revolutionary technological advancements.

Our IIT Bombay Remote Centre is a classroom from where our students, faculty and other participants can remotely attend lectures and interact with the Faculty of IIT Bombay, located at their campus, from the comfort of our college classroom. The live lectures are transmitted at remote centres to our classroom using A-VIEW Software.

We are obliged to equip our students to get placed in highly reputed companies by mentoring their necessary skill set for cutting edge technologies. The core highlighted areas are helping students with their technical competency, communication skills along with career guidance and counselling.

UCoE has produced a large number of successful alumni who are working in reputed organizations in India and abroad and have contributed immensely to the cause of nation building and society. We welcome all engineering aspirants to create an incredible legacy in the field of engineering.

Unique features of UCoE

- Choice Based Credit System (CBCS) & Continuous Assessment and Grading Pattern (CAGP) of Education
- Classmates of Distinction
- Rich Library Resources
- Internal Quality Assurance
- Diversified Student Community

- Virtual Labs in collaboration with IIT-Bombay
- Enriching Internships and Projects
- Effective Student Adoption and Mentoring
- Pre-Placement Training and Excellent Placement Record
- Exposure to IITs, NITs events and competitions

INNOVATION AND INCUBATION

1ST YEAR

Foundation

- Core Courses
- Induction Program
- Orientation Program
- Skill Enhancing Course
- Internship Opportunity

2ND YEAR

Program

- Project Based Learning
- Specilized Disciplinary Interdisciplinary Courses
- Technical proficiency Courses
- Internship Opportunity

3RD YEAR

Industry Exposure

- Project Based Learning
- Specilized Disciplinary Interdisciplinary Courses with Multioptions
- Internship Opportunity
- Skill Enhancing Course

4TH YEAR

Corporate Ready

- Application Based Research Project
- Specilized Disciplinary Interdisciplinary Courses with Multioptions
- Placement & Enterpreneurship

Vision & Mission Statement

Vision

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

Mission

- To boost holistic development of the students with an emphasis on technical education inclining towards socially relevant research.

- To promote a learning ambience which further enhances innovation, creativity, team spirit, rational and scientific temperament thus making them successful world citizens of present and future.

- To yield efficient professionals with the highest level of ethics and leadership skills, well equipped to face the industry demands.

From the Desk of the Campus Director

Dr. J. B. Patil
Campus Director

" *Education must not simply teach work but teach life.* "

At UCoE, students undergo experiential learning to develop skilful and artful contrivance which helps them to sustain the transcend of technology. UCoE offers unique pedagogy of teaching and learning process and currently offers four year Bachelor of Engineering courses Computer Engineering, Civil Engineering, Information Technology, Electronics Engineering, Electronics and Telecommunication Engineering, Data Engineering, Artificial Intelligence and Machine Learning aligned with full time dedicated, experienced and qualified faculty and a well-developed central library, sprawling workshop complex, state-of-the-art English Communication Skill Development Laboratory and well-developed Computer Engineering, Electronics & Telecommunication Engineering (only for direct second year), Civil Engineering and Information Technology Laboratories. Our motive is to empower students to receive quality education for attaining their ambition and to enrich young minds which can last a lifetime. While pursuing academic excellence, we also provide individual attention along with world-class quality education and take care of character building for an all-around personality development of the student to lead towards excellence in career and life and to face the global competition. So, here is an opportunity for you to make the right choice, which will lead you to attain a successful and satisfying profession.

Courses

SR. NO.	COURSE OFFERED	INTAKE
1	CIVIL ENGINEERING	60
2	COMPUTER ENGINEERING	120
3	INFORMATION TECHNOLOGY	60
4	DATA ENGINEERING	60
5	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	120
6	ELECTRONICS AND TELECOMMUNICATION	(only for Direct Second Year)

BVOC Courses (3 Years undergraduate program)

SR. NO.	COURSE OFFERED	INTAKE
1	CLOUD COMPUTING	30
2	ARTIFICIAL INTELLIGENCE	30
3	DATA ANALYTICS	30
4	INFORMATION MANAGEMENT AND CYBER SECURITY	30

CIVIL ENGINEERING (CE)

Total Number of Seats	60
Centralised Admission Process	48
Institute Level	12

Course Overview

Our four-year full-time B.E. degree in Civil Engineering affiliated to University of Mumbai. Our aim is to produce competent Civil Engineers with a proper amalgamation of engineering theory with practical visits to construction sites, highway projects, airports and dams.

Civil engineers develop a full range of skills in design, analysis, fabrication, management, and teamwork. Students are broadly trained and able to deal with the latest technologies. The growing panoply of sensors, instrumentation, intelligent facilities, and new materials highlights the high-tech character of the discipline, creating new educational challenges and redefining the skill set that Civil Engineers and Environmental Engineers need to succeed. Our laboratories for Civil Engineering are fully equipped to help students assimilate the concepts holistically, hands-on.

A rare feature in engineering colleges is a wind tunnel. A wind tunnel is a tool used in aerodynamic research to study the effects of air moving past solid objects. Our College has set up a Wind tunnel for the Department of Civil Engineering.
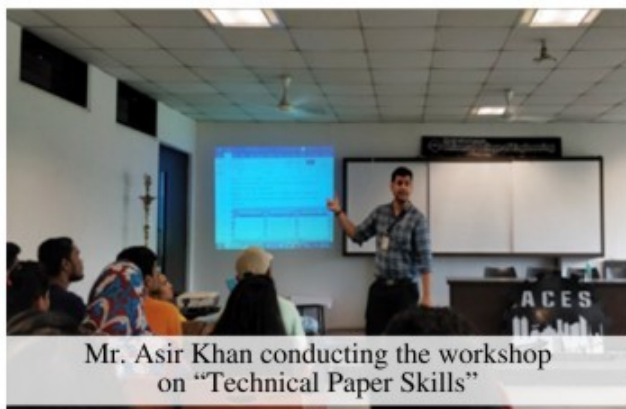

Association of Civil Engineering Students (ACES) at UCoE is a statutory body established in 2018 and incorporated by Institution of India. It unites all Civil Engineering students of Universal College of Engineering, and works for advancement of technology and sustainable development.

You will benefit from our integrated style of learning and teaching through a variety of methods including laboratory classes, project work and fieldwork. Working in 'real' situations will help broaden your experiences and will expose you to a wide range of problems and influences.

Fieldwork ranges from the survey field course in your first year, the construction site field course in the third year to fieldwork associated with many of the projects in the third and fourth year.

At the end of the course, you will be ready to join the industry as an Engineering professional or to continue postgraduate studies in Engineering, Technology or Management.

Workshop on Technical Paper Skill

Mr. Asir Khan conducting the workshop on "Technical Paper Skills"

Workshop was organized by the Association of Civil Engineering Students (ACES) for TE & BE students. The workshop was commended by giving students a brief introduction about Technical Paper Writing Skill, some important terms were taught. Publishing research papers in a peer-reviewed journal is an important activity within the academic community. It allows students to network with other scholars, get your name & work into circulation, & further refine your ideas & research.

Seminar on Pavement Design

Expert conducting session on Pavement Design

The seminar was arranged for BE students and commended by giving brief information about the pavements problem in Mumbai, as we know at present many metropolitan cities in the country including Mumbai face the problem of addressing severe pavement distresses in the old flexible (bituminous) pavements after each monsoon incurring huge expenditure.

SAP

Mr. Pankaj Mishra (expert) conducting Seminar on Application of SAP

Seminars are an inherent part of the Department of Civil Engineering.The seminar gave information on what SAP stands for, how it works, what is erp. Seminar also described the major leak areas, different modules of SAP.

An active discussion among the students was carried out regarding the problems faced by an entrepreneur as well as the well-established companies and what kind of solutions can be undertaken to solve the issues. The chairperson of the seminar also explained the enterprise resource planning as well as the optimal utilization of any company directors. The seminar was found to be very fruitful for the students of third year and final year which provided adequate information about SYSTEMS, ANALYSIS, PROCESSING.

Industrial Visits

2-days Industrial Visit for Civil Engineering students was planned on two different sites, namely, Pavana Dam, which is a reservoir turned artificial lake in the Indian state of Maharashtra, built across the Pavana River in

Industrial visit at Lavasa on 29th February, 2020

Pune District. Secondly, a second day visit was at Lavasa City, this city is India's first planned hill city is being developed by Lavasa Corporation Limited, a subsidiary of HCC the leading engineering, construction and infrastructure development company.

Survey Project - Field Visit in Khopoli

Second year students performing Profile Leveling

Field visit was arranged for second year students in the month of January 2020 for 4 days. Students applied theoretical knowledge on the field to tackle with given site conditions and executed various survey projects by using different surveying instruments. Students also performed activity on Smart Town Planning.

Expert Lecture for Preparation of GRE and Abroad opportunities

The purpose was to show the current scenario of education in our country & abroad countries also about the employment in India and abroad. Mr Gautam told about the preparation of GRE time required, fees required, Importance of GRE, tips and tricks to crack GRE. He also motivated the students of T.E to start preparing for GRE for a better score and a better university. He explained the importance of study in various countries such as Canada, USA , Germany, Australia

Expert Mr. Gautam Umashankar with Third Year Students

STTP on "Advancement in Concrete Technology"

Students and Staff at STTP on "Advancement in Concrete Technology"

STTP on Advancement in Concrete Technology was organised by Institution of Engineering, India on 16th to 20th December 2019. Aim of the STTP was that students were able to learn to prepare Mix design by IS 10262 and ACI method. Students will be able to work on advancement in concrete material & future challenges.

Academic Performance:

"The departmental results in Civil Engineering branch have always been exceptionally good and around 90%".

Skill Enhancement (Industry Institute Interaction)

Department of Civil Engineering at Universal College of Engineering is moving in the direction of skill enhancement and improved employability of the students. In order to achieve the goal, department is working towards bridging the gap between content delivered in the institute and the content expected by the industry. It is planned to connect with the industry experts and understand their expectation in various field. The content received from the industry shall be delivered to students beyond the curriculum of University of Mumbai in form of value added courses. Institute shall also apply to the University to consider these contents of value added course as minor degree course. As a pilot project, institute has started conversation with Structural Engineering stalwarts Mr. Nikhil Shanghvi CEO of SACPL and Mr. Girish Dravid CEO of Sterling Engineering who have given content and it in final stage for implementation. In order to incorporate other fields of Civil Engineering in the execution level, existing curriculum of University of Mumbai was discussed with the Industry representatives. Different fields have been identified as follows are Structural Engineers Practice, Structural Analysis & Design Practice, Application of Geotechnical Engineering, Green Technology & Application of Advancement in Surveying Industry

Representatives have undertaken responsibility for inviting industry experts from different fields of Civil Engineering. These experts shall help designing and delivering the content expected by the industry and hence shall also be helping the students in getting placements.

Vidya Vikas Education Trust's

Universal College of Engineering
Gujarati Linguistic Minority Institution

DTE Code: 349

Near Bhajansons & Punyadham, Kaman Bhiwandi Road, Vasai, Palghar-401208.
(Permanently Unaided) Approved by AICTE, DTE & Affiliated to University of Mumbai)

Accredited with B+ by NAAC

Industry Institute Interaction Cell
Department of Civil Engineering

To create employable and readily absorbable aspirants for the Industries have connected and collaborated with Industry personnel from various domains of Civil Engineering. All the course content is designed as per the requirement of the industries so as to bridge the gap between students and companies and to make students industry ready.

FORMWORK DESIGN

Under Expertise of
Mr. Umang Bavsar

Leading the Technical department and Heading Central zone at PERI INDIA PVT. LTD.

Under Expertise of

Mr. Nikhil Sanghvi
CEO at Sanghvi and Association Consultants PVT. LTD.

Mr. Girish Dravid
Director at Sterling Engineering Consultancy Services PVT. LTD.

STRUCTURAL ENGINEERING

Under Expertise of

Mr. Suhas Dhuri
He worked with ACC R & D division.
(40years of experience in concrete)

CONCRETE TECHNOLOGY

Visit Us On: https://universalcollegeofengineering.edu.in

Learning is never done without errors and defeat

- Vladimir Lenin

COMPUTER ENGINEERING (CMPN)
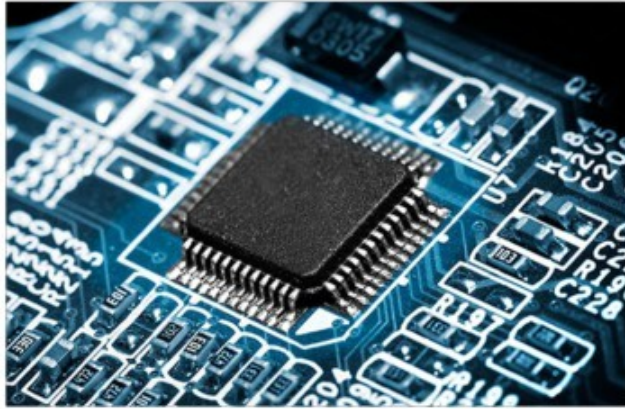
Total Number of Seats	120
Centralised Admission Process	96
Institute Level	24

Computer Engineers contribute enormously to the progress of modern human life. It is Computer Engineers who enhance the efficiency of power distribution networks, build the next-generation stock market platform, design robots with artificial intelligence, build scalable data warehouses that power search engines and allow a grandfather to video-chat with his grandkids over Skype.

Computer Engineering Student Association (CESA) is a student body with an aim of identifying skill gaps with respect to industry standards, developing and honing these skills for our students, The Department of Computer Engineering had set up CESA in year 2017-18. Motive is to help students adapt to the fast-changing world of work, which is a crucial task and challenge of our time. CESA invites students to discuss any of their ideas or business in-process so as to make it more realistic and opportunistic.

WORKSHOPS

Internship Awareness

Internship Awareness Workshop organized by CESA

On 30th January, 2019 a Workshop for Internship Awareness was held in UCoE by the Department of Computer Engineering. The purpose of the workshop was to give more information about the internships to the students.

Demystifying AI and Data Science

"Demystifying AI and Data Science" Workshop by Mr. Bhupesh Dajheria

Workshop for 'Demystifying AI and Data Science' was held in UCoE on 17 Sept., 2019. The workshop was conducted by Mr. Bhupesh Dajheria, CEO -Aegis School of data science. The purpose of the workshop is making students understand various concepts in data science and AI.

SEMINARS
ReactJS

Students attending seminar on "ReactJS"

The department of Computer Engineering had organised a seminar on "ReactJS". React is a front-end library developed by Facebook. It is used for handling the view layer for web and mobile apps. ReactJS allows us to create reusable UI components. It is currently one of the most popular JavaScript libraries and has a strong foundation and large community behind it.

Classroom Beyond The Walls Session

SE Students attending Workshop by Speaker Mr. Manish Shah

The session was organised on 8th August 2019 for Second Year Students as they should get motivated by such techie but at the same time out of the box topic session. Speaker Mr. Manish Shah also gave insights on Automated Solar Cars which can be a useful invention in future to create a modern yet green environment.

Introduction on Augmented Reality - Virtual Reality using Unity

Mr. Utsav Choudhary discussing on Augmented Reality - Virtual Reality using Unity

CESA (Computer Engineering Student Association) had arranged a seminar for SE students for the Computer Graphics course. Seminar was delivered by one of our third year students Mr. Utsav Choudhary on 4th March 2020. AR-VR is a trending concept now-a-days and is extremely used in the graphics domain, using UNITY software the concept was explained and some demonstrations were depicted. Also, how the projects can be developed using the same and applications were explained.

Demonstration of Augmented Reality

Web Development

Seminar was organised on 10th February 2020. Raj Shah, a third year, was the speaker for the workshop. The workshop gave an

Third year students attending Web Development seminar by Mr. Raj Shah

insightful overview of web development and helped the students to understand the basics of web development with hands-on practise.

Industrial Visits

Industrial Visit to Micro, Small and Medium Enterprises (MSME) Testing Center, Andheri

An Industrial visit organized on 3rd March,2020 to Micro, small and medium enterprises (MSME) Testing center at Andheri. A batch of 35 interested students from all branches were a part of IV. It was a very informative visit for all the students. Different labs were visited and got knowledge about testing of various products. They also learnt about different funding schemes for startups and entrepreneurial skills.

Hydroponics with Artificial Sunlight Project

With the advent of civilization, open field/soil-based agriculture is facing some major challenges. Most importantly decrease in per

Hydroponics with artificial sunlight project

capita land availability. To overcome these issues, UCoE students have proposed a "Hydroponic system with artificial sunlight". The term Hydroponics originally meant nutrient solution culture which continuously flows into the System. The project aims at growing the plant in a Hydroponic system with the use of grow light (artificial sunlight).

Python Certification Course

Mrs. Dhwani Barot conducting Python Certification Course

The Department of Computer Engineering had organized a Free Python Certification Course for second year and third year students. The entire workshop was conducted over 40 hours and 60 students participated. The course topics were divided into subsections, each covering aspects of Python Programming Language. The course consisted of fundamentals of Python such as basics of python, numpy and tkinter.

Academic Performance:

"The departmental results in Computer Engineering branch have always been exceptionally good and around 95%".

Minor Degree/Hons Degree Courses

Minor Degree/Hons Degree courses: All branches of Engineering and Technology shall offer Elective Courses in the EMERGING AREAS viz., Artificial Intelligence (AI), Internet of Things (IoT), Blockchain, Robotics, Quantum Computing, Data Sciences, Cyber Security, 3D Printing and Design, Augmented Reality/ Virtual Reality (AR/VR), as specified in Annexure 1 of the Approval Process Handbook 20-21.

Under Graduate Degree Courses in EMERGING AREAS shall be allowed as specialization from the same Department. The minimum additional Credits for such Courses shall be in the range of 18-20 and the same shall be mentioned in the degree, as specialization in that particular area. For example, doing extra credits for Robotics in Mechanical Engineering shall earn B.E./ B.Tech. (Hons.) Mechanical Engineering with specialization in Robotics.

Minor specialization in EMERGING AREAS in Under Graduate Degree Courses may be allowed where a student of another Department shall take the minimum additional Credits in the range of 18-20 and get a degree with minor from another Department.

Example:

If students from Computer Science and Engineering, IT, Electronics and Communication Engineering and Electronics Engineering selects Cyber security as specialization, it will be considered as Hons. And IF students of other branches like Civil selects Cyber security as specialization, it will be considered as Minor.

Minor / Hons.	To be offered as Hons., Only for following Major Disciplines (For any other Major Disciplines which is not mentioned, it may be offered as Minor Degree)
Cyber Security	Computer Science and Engineering; IT; Electronics and Communication Engineering; Electronics Engineering

Computer Engineering and IT department planned and designed syllabus of following Minor/Hons.

Programs in Cloud Computing, Cyber Security , Block chain, & Internet of Things

INFORMATION TECHNOLOGY (IT)

Total Number of Seats	60
Centralised Admission Process	48
Institute Level	12

The Department of Information Technology aspires to establish a system of Quality Assurance on a continuous basis, evaluate and monitor teaching-learning processes. UCoE has excellent connections with IT Companies based in Mumbai, Bangalore, Hyderabad and Gurgaon. Each year our BE students get placed in reputed organizations and external experts from different universities and industries are welcomed to interact with students to impart futuristic technical education.

ITSA (Information Technology Student Association) is a student body with an aim of identifying skill gaps between industry and academic study. The Department of Information Technology had set up ITSA in year 2017. ITSA invites students to discuss any of their ideas or business in-process so as to make it more realistic and opportunistic. Also we conduct different types of activities like hands-on training and competition.

WORKSHOPS
Infrastructure Security

Infrastructure Security Workshop by Industry Person

A Workshop on "Infrastructure Security" was arranged for IT Students on 14th August 2019. It helped students to identify core networking and infrastructure components, and the roles they serve; and given requirements and constraints, design an IT infrastructure including devices, topologies, protocols, systems software, management, and security.

Internet of Everything

"Internet of Everything" workshop for IT Students

A Workshop on "Internet of Everything" was arranged for IT Students on 17th September 2019. It helped students in understanding vision of IOT and to classify real world IOT design constraints and industrial automation in IOT.

Cordova

Ms. Abhilasha Varma, third year student explaining about Cordova

The workshop was conducted by Abhilasha Varma on 6th February 2020 under "One Each Teach One". She has an immense knowledge related to Mobile App Development acquired by attending different workshops, seminars & certifications. She covered topics like - Introduction of Cordova, How to install Cordova, How to create project in Cordova, How to platforms like browser, android, ios in project, How to add plugins like camera, geologication, file, Introduction to Phonegap, How to convert to app and install in mobile phone using Phonegap.

Android Development

Android Development Workshop by Mr. Aditya Singh

The workshop was conducted by Aditya Singh & Rishav Mandal from Third Year on 20th February 2020 under "One Each Teach One". These students have immense knowledge in the field of Mobile App Development and also have participated and won in many competitions among which - Hackstomp 2019 was one. Some major topics were covered related to Android development such as app deployment on playstore, Firebase authentication, NoSql Database, Android Security models and so on, as these are used in Industry Level Application. These concepts are very useful while creating projects and also when entering the industry.

Mr. Rishav Mandal discussing about Android Java File Usage

STTP on Developing and Managing IT Infrastructure with DevOps

Participants at DevOps Session

Session was conducted by Mr. Sandesh Patil and Mr. Mahindra Mehra on DevOps. Aim of the STTP was that participants will be able to understand the importance of DevOps tools used in the Software development lifecycle.

Academic Performance:

"The departmental results in Information Technology branch have always been exceptionally good and around 95%".

DATA ENGINEERING

Total Number of Seats	60
Centralised Admission Process	48
Institute Level	12

Data Engineering is the aspect of data science that focuses on practical applications of data collection and analysis. For all the work that data scientists do to answer questions using large sets of information, there have to be mechanisms for collecting and validating that information. In order for that work to ultimately have any value, there also have to be mechanisms for applying it to real-world operations in some way. Those are both engineering tasks: the application of science to practical, functioning systems. Most companies' stores their data in a variety of formats across databases and text files. This is where data engineers come in — they build pipelines that transform that data into formats that data scientists can use. Data engineers are just as important as data scientists, but tend to be less visible because they tend to be further from the end product of the analysis.

Data engineers focus on the applications and harvesting of big data. Their role doesn't include a great deal of analysis or experimental design. Instead, they are out where the rubber meets the road , creating interfaces and mechanisms for the flow and access of information. They may be experts in:

- System architecture
- Programming
- Database design and configuration
- Interface and sensor configuration

Although data engineers don't always get the glory of coming up with crazy insights by querying and combining big data sources, their work is important in building the data stores that are used in that work, and in taking those insights and putting them to practical use.

" *Procrastination makes easy things hard and hard things harder.* "

- Mason Cooley

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Total Number of Seats	120
Centralised Admission Process	96
Institute Level	24

AI is the study of how to train computers so that computers can do things which at present humans can do better." Therefore it is an intelligence where we want to add all the capabilities to machines that humans contain. Artificial Intelligence is the science and engineering of making intelligent machines, especially intelligent computer programs. It is related to the similar task of using computers to understand human intelligence, but AI does not have to confine itself to methods that are biologically observable." AI's goal is to make computers/computer programs smart enough to imitate the human mind behavior.

Artificial Intelligence has various applications in today's society. It is becoming essential for today's time because it can solve complex problems in an efficient way in multiple industries, such as Healthcare, entertainment, finance, education, etc. AI is making our daily life more comfortable and fast.

Goals of AI

- To Create Expert Systems - the systems which exhibit intelligent behavior, learn, demonstrate, explain, and advise its users.

- To Implement Human Intelligence in Machines - Creating systems that understand, think, learn, and behave like humans.

Machine Learning is the learning in which a machine can learn by its own without being explicitly programmed. It is an application of AI that provides the system the ability to automatically learn and improve from experience. Here we can generate a program by integrating input and output of that program. Machine Learning (ML) is a subset of Artificial Intelligence and is a science of designing and applying algorithms that are able to learn things from past cases. If some behaviour exists in the past, then you may predict if or it can happen again. Means if there are no past cases then there is no prediction. ML can be applied to solve tough issues like credit card fraud detection, enable self-driving cars and face detection and recognition. ML uses complex algorithms that constantly iterate over large data sets, analyzing the patterns in data and facilitating machines to respond to different situations for which they have not been explicitly programmed.

ELECTRONICS & TELECOMMUNICATIONS ENGINEERING (EXTC)

The study of electronics is to facilitate communications and solve engineering problems. In addition to the smartphone revolution, the advent of Electronics System Design has opened up numerous opportunities in hardware design and production. The ever-increasing demand of electronic gadgets and appliances for daily use has capacities coming up in India, both national and multinational.

The Department is fully equipped with state-of-the-art laboratories, committed and qualified teaching professionals, and a well-stacked department library.

Students are guided into the exciting world of Electronics & Telecommunication Engineering by providing necessary technical knowledge and hands-on training. Students and faculty together organize global and national conferences, seminars, faculty development programs, and workshops, with assistance from professional chapters such as IETE and ISF.

Our four-year full-time course B.E. degree in Electronics and Telecommunications (EXTC) Engineering affiliated to University of Mumbai.

We carry out many activities such as National level paper presentation and National Level Project exhibition cum poster presentation, we have formed IETE, ISF and IET Chapter which helps in resourcing expert lectures and workshops. Expert le lectures in the areas of Design of Antenna, Electromagnetic compatibility & interphase also being conducted.

WORKSHOPS

Basics of IOT

Speaker delivering contents on "Basics of IOT"

The main aim was to understand the Internet of Things, which is in the market. To understand how it works a Hands-on experience was given to all the students and IoT kits were provided to them.

PATW - Present Around The World

PATW Workshop attended by Students and Staff of UCoE

To develop the Presentation Skills and get the exposure to present the topic in different regions.

Industrial Visit

Industrial Visit to Classic Marble Company

On First day 22nd March Students visited CMC Classic Marble Company. This company is a pioneering ideology in India's largest and foremost importer in the architectural world of stones. During this visit students got to know various types of stones and processing required generating final finished product. Expert stonologist were appointed to explain students characteristic of each stone and in detail process of giving a professional touch to stones producing world class quality product. Company had also allowed students to visit the marble showroom.

Expert Lecture
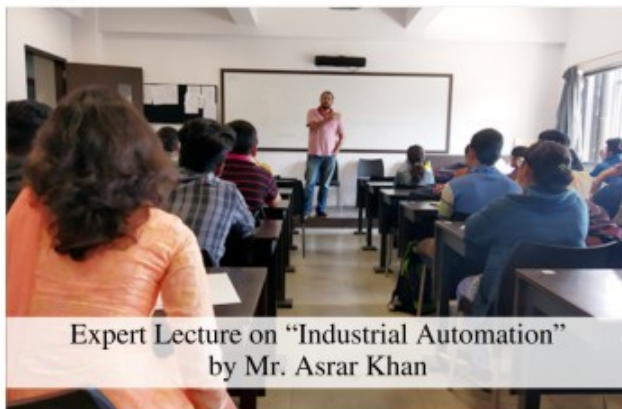
Expert Lecture on "Industrial Automation" by Mr. Asrar Khan

An Expert lecture on Industrial Automation was conducted by Mr. Asrar Khan on 22nd February 2019. The lecture elaborated PLC Programming and Troubleshooting, HMI and Next generation GSM PLC ,PLC panel wiring / installation, Field Instruments, SCADA Designing and PLC Interfacing, Hydraulics and Pneumatics, DCS/PAC architecture and programming, Relay logic, power and control wiring , VFD Panel configuration and wiring, Industrial standards and codes , VFD PLC interfacing, Different Communication protocol, Motors and Conveyor control system and Robotics.

> "
> *The expert in anything was once a beginner*
> "
>
> *- Helen Hayes*

ELECTRONICS ENGINEERING (ETRX)

Electronics Engineers pioneered modern technological miracles such as the telegraph, the radio, the telephone and the television. Through the magic of transistors, capacitors, resistors, diodes and inductors, Electronics Engineers gave birth to the bullet train, the microwave, the digital calculator, the battery and the printer. The field of Electronics Engineering is ever-evolving. Advances in Electronics Engineering fuel R&D in many other Engineering disciplines such as Telecommunications Engineering, Instrumentation Engineering & Computer Engineering.

Our four-year full-time course affiliated to University of Mumbai B.E. degree aims in producing competent Engineers who are not only experts in the field of Electronics & Telecommunications Engineering but also competent in other fields that are essential requirements for the same.

We carry out many activities such as National level paper presentation and National Level Project exhibition cum poster presentation. We have formed IETE and ISF Chapter which helps in resourcing expert lectures and workshops. Expert lectures in the areas of Design of Antenna, Electromagnetic compatibility & interphase.

Workshop on Wired & Wireless Robots

Robotics workshop for polytechnic and junior college students

A workshop on wired and wireless robot was conducted by the faculty of EXTC and ETRX. The workshop was attended by 71 students from PRP Polytechnic Bhayander and 56 students participated from SN Junior College.

STTP on Emerging Technologies in Embedded Systems and Robotics

An ISTE(Indian Society for Technical Education) and ISA(International Society of Automation) approved short term training program was organized by Universal College of Engineering, Vasai from 17th June 2019 to 21st June 2019. The program was attended by 20 participants including faculties and students.The session covered basics of

Embedded Systems and Robotics, various Interrupts used in ATMEGA 2560 and application to control the speed of motion of robot by PWM motion control, use of ADC, LPC 2148 ARM controller and Hands on training is given.

STTP on Emerging Technologies in Embedded System and Robotics

EXPERT LECTURE
LaTex

LATEX workshop by Mr. Sandeep Dubey

LaTeX is a high-quality typesetting system; it includes features designed for the production of technical and scientific documentation. LaTeX is the de facto standard for the communication and publication of scientific documents.

Impedance Matching using Smith Chart

Expert lecture on impedance matching using Smith chart

Smith chart is still the basic tool for determining transmission-line impedances. The primary objectives of this lecture are to review the Smith chart's construction and background, and to summarize the practical ways it is used. Topics addressed include practical illustrations of parameters, such as finding matching network component values. Of course, matching for maximum power transfer is not the only thing we can do with Smith charts. They can also help the designer with such tasks as optimizing for the best noise figures, ensuring quality factor impact, and assessing stability analysis.

> "
> *There are no shortcuts to any place worth going.*
> "
>
> *- Beverly Stills*

APPLIED SCIENCE AND HUMANITIES (AS&H)

At the forefront of the other disciplines of engineering studies, Applied Science and Humanities Department with a dedicated team of highly qualified and experienced professionals is committed to serve the needs of various branches of Engineering by providing a favourable environment which motivates students to utilise their fullest possible potential for self-development in various aspects of life.

The Department promotes the applied nature of Sciences and Humanities to develop a sustainable foundation as part of the Engineering Education. The Department prepares students for core engineering branches by educating them in the basic science of Physics, Chemistry, Mathematics, Engineering Mechanics and Engineering Drawing in the first year. Environmental studies make our students stewards of the environment that sustains us, our families and communities now and in the future.

The English Communication skills, which are an integral part of the syllabus, strive to produce graduates of international repute with effective communication skills, soft skills and interpersonal skills and promote a commendable transformation when they are ready to face the placements.

Events and Workshops

The Applied Science and Humanities Department creates an impact on student's experiences by including workshops, internships, and also other technical event.

Orientation Program

FE Students attending Orientation Program

The Department organized an Orientation Programme for the first semester students of Bachelors of Engineering on 26th September 2019. The aim was to introduce newly admitted students to become aware of the academic aspects of the course, the rules and regulations of the institute and the code of conduct.

Parent-Teacher Interaction

HoD, Mr. Shivam Shukla interacting with Parents

Induction Program

Mr. Satish Derashri session on
"FINDING HAPPINESS IN STUDIES"

Induction Program for FE students were conducted in 2-phases for 8 days, one from 26th August - 31st August 2019 and another from 3rd January - 10th January 2020. Various activities, guest lectures, proficiency sessions were arranged during this period.

> 66
> *Education is the most powerful weapon which you can use to change the world.* 99
> *- Nelson Mandela*

Infrastructure

Laboratories

Indeed, it is a golden rule for every student to attain hands-on practical knowledge, which is the crux of engineering education. Thus, we have taken care of investing rightly and have provided fully equipped laboratories to facilitate students in practical training for all streams may it be Computer Engineering, Information Technology, Civil Engineering, Electronics & Telecommunication Engineering, Electronics Engineering.

Computer Engineering and I.T. Laboratories

The laboratories of these streams are equally equipped with state-of-the-art hardware and software to enable students to stay updated with the latest and in trend technologies. We also have specially designed laboratories for final year students to carry out their project related activities with ease.

Civil Engineering Laboratories

Our laboratories for the Civil stream are fully equipped to help students assimilate the concepts holistically, hands-on. A rare feature in engineering colleges is a **wind tunnel**. UCoE has set up a Wind tunnel for Civil Engineering department. This set up is used to study effect of wind on design of buildings. A wind tunnel is a tool used in aerodynamic research to study the effects of air moving past solid objects. A wind tunnel consists of a tubular passage with the object under test mounted in the middle. Air is made to move past the object by a powerful fan system or other means. The test object, often called a wind tunnel model is instrumented with suitable sensors to measure aerodynamic forces, pressure distribution, or other aerodynamic related characteristics.

EXTC & Electronics Lab
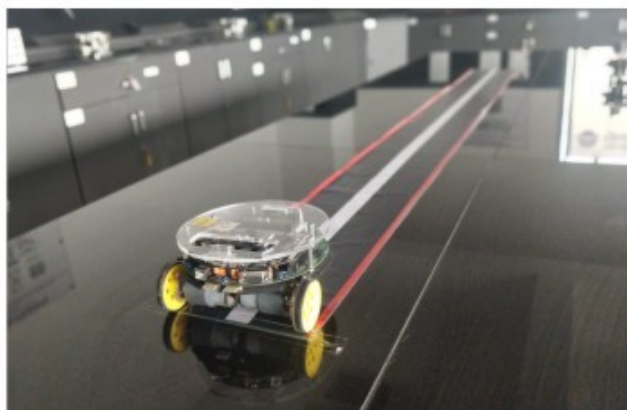
The Electronics sector is a key player in the economy and one of the most globalized industries in the world. It is a strategic enabler and a driving force for all the services, be it Internet, telecom, precision engineering industries, aviation, energy, banking, etc. imagine any service, nothing works without Electronics. The rapidly growing Indian electronics industry can be broadly categorized into six segments. They are consumer Electronics (the largest chunk of the market), Industrial Electronics, strategic Electronics, Computers, Communication and Broadcasting equipment and Electronic components. A key focus in the EXTC and ETRX department of UCoE is Research and Development leading to innovative products.

Workshop

For workshop practice, the institute has a huge industrial workshop with latest equipment for fitting, carpentry, forging (smithy), welding, turning, electrical work, etc.

Cafeteria

Literati Cafe is a place for some fresh coffee, delectable food and relaxed atmosphere. Hot beverages define the menu, but there's also an extensive selection of Indian and international snacks and meal.

Drawing Hall

The institute has a purpose-built drawing hall with unique drawing tables with provision for height and angle adjustment. AutoCAD practicals are held in the Computer Engineering Practical Lab.

Common Rooms & Lockers

State-of-the-art separate common rooms for boys and girls are a part of our thoroughly professional infrastructure. Students can play chess, stretch themselves for a while, and watch news channels, etc. during the non-classroom hours. Dedicated locker is provided to every student. The size of the lockers is large enough to store their project work and their study material.

Fire Safety Compliant

Our campus follows all the norms and regulations set by the AICTE and has fully functional water hydrants and fire extinguishers to handle any emergency fire outbreak.

Round The Clock Surveillance

We have 24/7 CCTV monitored surveillance of the entire campus. Issues, if any, are monitored and notified by the surveillance officer promptly.

Playground

Our college boasts of a beautiful play area for the students. We have a cricket ground with a permanent concrete pitch laid by our enthusiastic students with the complete support from our management. We also have a rink football ground, volleyball and badminton court. We also promote our traditional sports, such as Kho-kho, Kabaddi, Lagori and have playgrounds for them as well.

Library

Purpose

The purpose of the library is to freely disseminate knowledge. Our library (ARCHIVIA) is therefore operated on a need based approach rather than the usual rules-based treatment given to students everywhere. We allow open access to the collection, conduct book review club exhibitions and through information literacy we encourage students to read books and access resources.

Location

- Floor: First
- Seating capacity of Library is 225
    - For Students: 207
    - For Staff: 18

Working Hours

On all working days: **9:00 am to 5:00 pm**

During the university examination days: **9:00 am to 6:00 pm**

Resources' Statistics

Library Services						
Type of Resource	**Existing**		**Newly added**		**Total**	
	No.	**Value**(in Lakh)	**No.**	**Value**(in Lakh)	**No.**	**Value**(in Lakh)
Text Books	12853	76.45	1054	8.05	13907	84.50
Reference Books	1484	8.44	147	2.15	1631	10.59
e-Books	2	0	0	-	2	-
Journals	60	2.10	0	0	60	2.10
e-Journals	3	5.83	0	0	3	5.83
Digital Database	5	Open source	5	Open source	10	Open source
CD & Video	10TB	28780	0	0	10TB	28780
Library automation	E-granthalaya	Open source	E-granthalaya	Open source	E-granthalaya	Open source
Weeding (Hard & Soft)	Nil	Nil	Nil	Nil	Nil	Nil
Newspapers	13	27422	13	15238	26	42660
Digital Library	10	2.28	0	0	10	2.28
Project Reports	427	Inhouse	0	0	427	Inhouse

Digital Library

New and advanced technologies have brought significant changes in the education systems. Almost all the countries of the world have adopted the new technologies for teaching and learning process. Our study emphasizes on different digital library services that are provided by engineering college libraries. Our digital library is continuously working to support teaching system by providing pinpointed information and services according to the needs of the users.

Directory of Open Access Books

The primary aim of DOAB is to increase discoverability of Open Access books. Academic publishers are invited to provide metadata of their Open Access books to DOAB. Metadata will be harvestable to maximize dissemination, visibility and impact. Aggregators can integrate the records in their commercial services and libraries can integrate the directory into their online catalogues, helping scholars and students to discover the books. The directory is open to all publishers who publish academic, peer reviewed books in Open Access and should contain as many books as possible, provided that these publications are in Open Access and meet academic standards.

URL: *https://www.doabooks.org*

Open Access Publishing in European Networks (OAPEN)

The OAPEN Library contains freely accessible academic books, mainly in the area of humanities and social sciences. OAPEN works with publishers to build a quality controlled collection of open access books, and provides services for publishers, libraries and research funders in the areas of deposit, quality assurance, dissemination and digital preservation.

URL: *http://www.oapen.org*

Free E-Journals

NISCAIR Online Periodical Repository
URL: *http://nopr.niscair.res.in*

World Scientific Journals
URL: *http://www.worldscientific.com*

Journal Table of Content
URL: *http://www.journaltocs.ac.uk*

OMICS International Journals
URL: *www.omicsonline.org/engineering-journals.php*

Free E-theses

Shodhganga@inflibnet

The Shodhganga@INFLIBNET Centre provides a platform for research students to deposit their Ph.D. theses and make it available to the entire scholarly community in open access. The repository has the ability to capture, index, store, disseminate and preserve ETDs submitted by the researchers.

URL: *http://shodhganga.inflibnet.ac.in*

Open Access Theses And Dissertation (OATD)

OATD.org aims to be the best possible resource for finding open access graduate theses and dissertations published around the world. Metadata (information about the theses) comes from over 1100 colleges, universities, and research institutions. OATD currently indexes 3,039,428 theses and dissertations.

URL: *https://oatd.org*

Shodhgangotri: Repository of Indian Research In Progress

Under the initiative called "*ShodhGangotri*", research scholars / research supervisors in universities are requested to deposit electronic versions of approved synopsis submitted by research scholars to the universities for registering themselves for the Ph.D programme.

URL: *http://shodhgangotri.inflibnet.ac.in*

“

Education is the most powerful weapon you can use to change the world. ”

- B. B. King

Admissions

Eligibility Criteria for Maharashtra State Candidate and Outside Maharashtra State Candidate for Admission to First Year of Degree Courses in Engineering/Technology

- Candidate should be an Indian National

- Candidate should have passed the HSC/10 + 2 or equivalent examination of Maharashtra State Board of Secondary and Higher Secondary Education or its equivalent examination with subjects English, Physics, Chemistry and Mathematics (PCM) from of a recognised Council or Board like ICSE, CBSE, etc. from a recognised institution located in the State of Maharashtra.

- Secured minimum 50% marks, i.e. 150 out of 300 in the subjects Physics, Chemistry and Mathematics added together at HSC/10 + 2 or equivalent in one sitting. In case of candidates of Backward Class categories and persons with disabilities belonging only to Maharashtra State, the minimum requirement is 45% marks, i.e. 135 out of 300.

- Candidate should have obtained a valid (i.e. non-zero) score in CET-Main 2020

CRITERIA FOR OMS STUDENTS IN ADDITION TO THE 4 POINTS LISTED ABOVE

These candidates must fulfil all conditions as mentioned from 1 to 4 above except that they should have passed HSC/10 + 2 or equivalent or equivalent examination from an institute situated outside the state of Maharashtra but within India. These candidates can apply only in the category of Institute Level Seats only for First Year Engineering.

DOCUMENT REQUIRED

Required for all students

- Marksheet of Std. X examinations

- Marksheet of Std. XII examinations 2020

- Score Card of JEE-2020

- Score Card of CET 2020

- School/College Leaving Certificate

- Certificate of Indian Nationality of the candidate (Birth Certificate or Passport)

- Physical Fitness Certificate issued by a registered medical practitioner (registered doctor).

- Five passport-sized photographs of the candidate

- Only if year of HSC/10 + 2 or equivalent passing is not 2020, affidavit for gap in studies.

- Notarised affidavit on Rs. 100 non-judicial stamp paper for compliance with AICTE anti-ragging rules in the name of applicant as well as by parents.

- Undertaking regarding interim fees stipulated by Shikshan Shulka Samiti.

ADDITIONAL DOCUMENTS FOR GUJARATI-SPEAKING MINORITY APPLICANTS

- Community certificate indicating that the applicant belongs to Gujarati speaking Community.(If candidate has not opted Gujarati as one of the language at SSC or HSC/10+2 or equivalent).

- Notarised affidavit on Rs. 100 non-judicial stamp paper declaring candidate belongs to the Gujarati-speaking community.

ADDITIONAL DOCUMENTS FOR OUTSIDE MAHARASHTRA (OMS) APPLICANTS

- Domicile certificate of candidate and father/mother of candidate (by birth or permanent residence).

- Eligibility certificate from University of Mumbai.

- Migration certificate.

ADDITIONAL DOCUMENTS FOR RESERVED/OTHER CATEGORY APPLICANTS

- For SC/ST/NT1/NT2/OBC/ SBC students, caste certificate/ caste validity/non-creamy layer certificate (if and as applicable)

- Relevant documents for defence/physically handicapped/J&K candidates (if applicable)

RETENTION OF ORIGINAL DOCUMENTS

Original certificates shall be submitted for verification to the college authority affecting admission. If a candidate is offered admission, his/her original School/ Institution Leaving Certificate (after qualifying examination) and Certificate of Marks at the qualifying examination will be retained by the college. These two original certificates will not be returned to any candidate once admitted to a course unless the candidate cancels his/her admission. If a candidate is unable to produce these two original certificates at the time of his/her admission on account of his/her admission to some other institution; he/she will have to produce a certificate from the Head of the Institution where he/she has taken admission indicating that he/she has been admitted to a particular course in that institution and hence his/her original certificates have been retained in that institution. Along with such a certificate the candidate shall be required to submit the copies of the abovementioned two certificates; i) School/Institution Leaving Certificate (after qualifying examination) and ii) Certificate of Marks at the qualifying examination, duly attested by the Head of the institution in which he/she has taken admission.

> "
> *Education is the*
> *passport to the future,*
> *for tomorrow belongs to those*
> *who prepare for it today.* "
> *- Malcolm X*

Fees

1. The fees are to be paid by Cheque/DD only. Cheques/DDs to be drawn in the name of the college.

2. Fees for the entire year can be paid together at the time of admission.

3. At the time of admission, the first instalment is payable by DD along with post-dated cheques for the remaining instalments of the year.

4. The fees are payable in instalments as prescribed by the institute only on or before the scheduled dates. The payment of fees by instalment is intended merely to facilitate the parents / guardians and should not in any manner be construed as a right. The institute reserves its right to discontinue and/or reduce payment by instalments at its discretion.

5. Fees once paid are non-transferable / non-adjustable / non-refundable under any circumstances and are subject to the exceptions as set out in the refund policy.

6. Exit documents will be issued only after full and complete settlement of outstanding dues.

7. Any statutory taxes, if made applicable and/or if increased and/or for any facility provided by the institute , shall have to be borne and shall have to be paid by parents / guardians from time to time.

8. In case of any cheque towards payment of fees being dishonoured, the institute reserves its right to de-enrol the student at its discretion and levy any other penalty as it may deem fit.

9. The institute reserves its right to disallow a student from participating in any of its activities whose fees remain unpaid in full or in part.

10. The institute reserves its right to not to issue reports, certificates or recommendations to future institutions whose fees remain unpaid in full or in part.

11. The institute reserves the right to increase / revise / amend the fee structure.

Refund of Tuition, Development and all other fees after cancellation of admissions:

The candidates who have taken admission in under graduate courses in Govt. colleges, in Govt. aided and unaided courses conducted by affiliated colleges, and recognized Institutions may request for refund of fees after applying in writing for cancellation of their admission to the course. The refund of fees as applicable shall be made on or before the 30th day after the date of cancellation and thereafter. The percentage of fees for the course shall be refunded to the candidate after deducting charges as follows:

Fees deduction on cancellation of admission

a. If admission is cancelled before cutoff date given by DTE Rs 1000 will be deducted and entire remaining fee will be refunded

b. If admission is cancelled after cutoff date given by DTE there will be no refund of fee

The above refund policy will be applicable to candidates who takes admission through Centralises admission process.

ii) The fee charged towards group insurance and all fee components to be paid as University share (including Vice-Chancellor fund, University fee for sports and cultural activities, E-charge, disaster management fund, exam. Fee and Enrolment fee) are non-refundable if payment is made by the college prior to the date of cancellation.

iii) Fee collected for identity card and library card, admission form and prospectus, enrolment and any other course specific fee are not refundable after the commencement of the academic term.

iv) All refundable deposits (Laboratory, Caution Money and Library etc.) shall be fully returned at the time of cancellation.

Provided that wherever admissions are made through centralized admission process for professional and / or for any other courses by other competent Authorities, the Refund Rules are applicable if specified by such authorities (as per the rules of relevant agencies) for the 1st year admission. In case of admission to subsequent years of the course, 0.2859 is applicable for cancellation of admission.

Provided further that this refund rule is concurrent with the rules and guidelines of other professional statutory bodies appointed for admission for relevant courses.

Further that 0.2859-A & 0.2859-B have been repealed and the amended 0.2859 relating to the refund of Tuition Fees, Development and all other fees after cancellation of admission for the Under Graduate Courses has been brought into force with effect from the academic year 2008-2009.

Refund of College Deposit

Application for the refund of college deposit must be made within one year of the applicant ceasing to be a student of the College, failing which the deposit amount will be forfeited. The college now ensures that the deposits are refunded to the students through the RTGS system and hence it is necessary that the students have a bank account so that the deposit amount can be transferred directly to their accounts without delay.

Issuance of Duplicate Fee Receipts

A student requiring duplicate fee receipt shall have to fill a form available at the information counter of the college and pay Rs. 100.

General Rules & Regulations Regarding Attendance

ATTENDANCE FOR LEARNERS AS PER ORDINANCE 6086 OF UNIVERSITY OF MUMBAI

1. Every bonafide learner shall ordinarily be allowed to keep terms for the given semester in a program of his enrolment, only if he fulfills at least seventy five percent (75%) of the attendance taken as an average of the total number of lectures, practical's, tutorials etc. wherein short and/or long excursions/field visits/study tours organized by the college and supervised by the teachers as envisaged in the syllabus shall be credited to his attendance for the total no of periods which are otherwise delivered on the material day/s. Further it is mandatory for every learner to have min 50% attendance for each subject & an overall average attendance has to be 75%.

2. The Principal of the concerned College shall be the competent authority to condone the absentee of any learner further up to additional 25%, if deemed fit and on recommendation of the attendance committee of the college, wherein it is mandatory on the committee to do natural justice by giving personal hearing to every learner falling short of minimum attendance for keeping terms and recommending case by case to the competent authority having verified the genuineness and gravity of the problem that justifies the learner to remain absent, which generally shall be limited to his own sickness, sickness of his parent, death of his parent etc. supported by valid evidence, documentary or otherwise.

3. Steps taken by College to make the Parent's & the student's aware of the norms of attendance & norms of granting the terms.

a) Attendance Undertaking signed by parent as well as student at the time of admission.

b) Signatures taken from students against their monthly attendance.

c) Display of monthly attendance on student notice board.

d) Monthly letters and emails sent to Parents informing of their ward's attendance.

e) Conducting Periodical meeting (at least two meetings in each semester) of the Parents of the student's with less than 75% attendance addressed by the Principal / Vice Principal / Members of the attendance Committee / Person authorized by the Principal.

f) Undertaking signed by parent as well as student during the periodical parents meeting.

4. If a student is not able to attend lectures on medical ground, then he shall submit documents evidencing his illness along with an application addressing the same to the principal. The leave of absence may be granted on medical grounds subject to fulfilling the above criteria and at the discretion of the principal of the college.

The details of the documents along with the rules are mentioned on the application form (appended as Annexure H).

In the event that a student does not have requisite attendance, he/she shall be debarred from that semester and a list of detained students shall be displayed on the notice board at the end of the semester. The detained student can then file an appeal to the Head of the Institution/ Principal of the college within 3 days from the date of display of the list on the notice board of the college, where he shall be given a personal hearing. After the hearing the college shall display the final list of the debarred students and communicate the same to the Controller of examination before 10 days from the commencement of the relevant Semester End Examination. The student if he so wishes has a right to appeal against the said decision of the college within 10 days to the Controller of Examination, University of Mumbai.

Note: As per order of the Hon'ble High Court Mumbai IN Writ Petition no. 1208 of 2017, the University of Mumbai has specified that the University cannot condone the attendance of the students below 50%. Hence it is necessary that the student 75% of the lectures and/or tutorials and/or Practical for being eligible to appear for the Examinations conducted by the colleges on behalf of the University or conducted by the University.

"

The purpose of education is to make good human beings with skill and expertise... Enlightened human beings can be created by teachers. "

- A. P. J. Abdul Kalam

Code of Conduct and College Regulations

1. Every student must obtain on admission, the Identity Card which must have his/her photograph attested and wears the identity card on person whenever he/she is on the college premises and present it for inspection on demand.

2. If the academic performance of the student is not satisfactory, the student is likely to be detained and will not be allowed to appear for the examinations conducted by the college on behalf of the University / Board or by the University of Mumbai or Maharashtra Board.

3. Students must not enter on the College premises while the classes are going on.

4. In case of absence on account of illness, the Principal should be informed by the parents personally. On resuming the college, the student should report to the Principal along with the fitness certificate.

5. Students must not attend classes other than their own, without the permission of the Principal.

6. Smoking and consumption of alcohol on the College premises or entering the college premises, after consuming alcoholic drinks is strictly prohibited.

7. Students shall do nothing either inside or outside the College that will in any way interfere with its orderly conduct and discipline.

8. No Society or Association shall be formed in the College and no person will be invited to address a meeting without the Principal's prior permission.

9. No student shall collect any money or contribution for picnic, trip, Educational visit to some place, get-together, study-notes, charity or any other activity without prior sanction of the Principal.

10. No student will be allowed to take active part in current politics.

11. No student shall communicate any information or write about matters dealing with the College administration to the Press.

12. Students are expected to take proper care of college property and help the college authorities in keeping the premises clean. Damaging college property e.g. disfiguring walls, doors, fittings or breaking furniture, misuse of fittings, or breaking furniture, misuse of A.C. etc., is breach of discipline, and the guilty will be duly punished.

13. Students should not leave their books, valuables and other belongings in the classroom.

14. The College is not responsible for lost property. However, students may make a claim for lost property at the office, if it is deposited in the College Office.

15. Students applying for certificates, testimonials, etc. which require the Principal's signature on any kind of document or application should first contact the College office. Students should not bring any paper directly to the Principal for his/her signature.

16. If, in the opinion of the Principal, for any reason, the continuance of a student in the College is detrimental to the best interest of the College, the Principal may ask such a student to leave the College without assigning reason for his/her decision.

17. Students joining the College are bound by the rules and regulations of the College.

18. Insubordination and unbecoming language or misconduct on the part of a student is sufficient reasons for his/her suspension or dismissal.

19. Students receiving Government or College Scholarships or any remission in fees, must note that the grant and continuance thereof are subject to good behavior, regular attendance and satisfactory progress and good results at the College and Board Examinations.

20. All College activities are organized under the guidance and supervision of the Principal and Professor In-Charge.

21. Students must not associate themselves with any activity not authorized by the College Principal. Serious action will be taken of students found organizing or participating in such unauthorized activities.

22. Students using unfair means at examinations will not be readmitted to the College. Actions will be initiated against such students as per the norms and procedure prescribed by the University of Mumbai or by the Maharashtra Board

23. It is the responsibility of the students to read the notice boards regularly for important announcements made by the College office from time to time. They will not be excused or given any concession on grounds of ignorance or not reading notices.

24. Use of Mobile Phones and hand held devices are not allowed on campus. If a student is found using the same, then his mobile phone shall be confiscated and shall be returned only at the end of the academic year i.e. 30th April of the academic year.

25. The matters not covered by the existing rules will rest at the absolute discretion of the Principal.

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An investment in knowledge pays the best interest. 99

- Benjamin Franklin

Anti-Ragging Rules

We, here at **UCoE** have zero tolerance to ragging. We strictly condemn any kind of ragging practices. As per the Maharashtra Prohibition of Ragging Act 1999, **ragging is strictly prohibited.**

The University Grants Commission vide its letter no F.1-16/2007 (CPP-II) dated June 17, 2009 has reiterated the ban on ragging of students in Institutions of Higher Learning. The students are therefore directed to strictly desist from any kind of ragging. Forms of Ragging: Display of noisy, disorderly conduct, teasing, excitement by rough or rude treatment or handling, including rowdy, undisciplined activities which cause or are likely to cause annoyance, undue hardship, physical or psychological harm or raise apprehensive fear in a fresher, or asking the students to do any act or perform something which such a student will not do in the ordinary course and which causes him/her shame or embarrassment or danger to his/her life, etc.

Affidavit by students and parents: Each student and his/her parents/guardian shall have to furnish an affidavit along with the application form to the effect that they will not participate in or abet the act of ragging and that, if found guilty, shall be liable for punishment under the penal law of India.

Punishment for Participation in / or Abetment of Ragging:

1. Cancellation of admission.

2. Suspension from attending classes.

3. Withholding/withdrawing scholarship/ fellowship and other benefits.

4. Debarring from appearing in any test/examination or other evaluation process.

5. Withholding results.

6. Debarring from representing the institution in any national or international meet, tournament, youth festival, etc.

7. Rustication from the institution for periods varying from 1 to 4 semesters or equivalent period.

8. Fine up to Rs. 25,000/-

Enrichment Activities

Degree Certificate Distribution Ceremony (Convocation)

UCoE conducted 4th Annual Convocation ceremony for Bachelor of Engineering batch of year 2018-19 on Saturday, 4th Jan 2020. The venue was its very own Permanent Campus at Kaman, Vasai.

Campus Director Dr. J. B. Patil felicitating Mr Abhishek Singh (Silver Medallist, Computer Engineering)

AURORA 2020

AURORA is a Sports and Cultural event organized by UCoE.

Inauguration of AURORA 2020

Sports and Cultural Team

VYRO

VYRO is a technical as well as non-technical event organised by Universal College of Engineering every year. VYRO bash for the year 2020 started on 13th of February. Students from various colleges across Mumbai, Thane and Palghar district enthusiastically participated in the event.

Students and Faculties at Robo Race at VYRO 2020

Energy Transformania

The event was a kind of exhibition. The activity is completely based on the concept of contraption. This is a concept of physics which deals with energy conversion. To be precise, the whole set up consists of a number of mechanisms linked with each other. Any form of energy provided to the system initially, gets converted into various forms of energy which in turn activate various mechanisms, rather the

FE Students at Energy Transformania Event

chain of mechanisms. This activation of the mechanisms has to be very accurate so as to propagate further activations. Through this chain reaction a final aim is achieved.

HACKSTOMP

Hackstomp is a 24hrs non-stop coding competition for engineering students all over Mumbai. The Department of Information Technology under ITSA organized HACK-STOMP on 13th and 14th February 2020. The theme of the event was "Innovation for India". 194 students participated in the competition proposing and implementing their ideas to innovate India.

Winning Team along with Faculties at Hackstomp 2020

Junior Tantrotsav

Campus Director Dr. J. B. Patil and Chief Guests Mr. Hemant Kedia & Mr. Sundeep Kedia along with the winning team.

Junior Tantrotsav was organized on 7th March, 2020 under the student's chapter The Institution of Engineers". The sole motto of this

event was to give the platform to students to showcase their technical skills and knowledge by providing real time solutions in the world of engineering.

National Level Project Exhibition Cum Poster Presentation

The 6th National Level Project Exhibition cum Poster Presentation event was hosted by UCoE in association with IETE on 13th March 2020. It is a national level event for the budding, aspiring engineers, academicians and an opportunity for the students of different colleges to present their technical ideas in the form of projects and posters.

Mr. Chinmay Raut, Head of IETE with winning team

Project Based Learning

Second year students demonstrating their project in Project Based Learning Exhibition

Project based Learning is the skill development program organized for second year and third

year students. This platform offers students to explore their knowledge and hands-on skills on related technology by implementing a project apart from their curriculum projects.

NSS Activities

The University of Mumbai has given support to the NSS, and encourages all youth to join the program. The vision of the scheme is to inculcate values of compassion and humanity and a feeling for the fellow person. The combined participation in community service leads to a sense of involvement in the task of nation building.

The motto 'NOT ME, BUT YOU' underlines that the welfare of an individual is ultimately dependent on the welfare of the society as a whole. The NSS attempts to develop in the young students a sense of social and civic responsibility and trains them to utilize their knowledge in finding practical solution to individual and community problems.

NSS team for Beach Cleaning Drive, Vasai

On 10th September 2019, the NSS Unit of UCoE organized a Beach Cleanup Drive. The beach selected for the activity was Rangaon beach located in the interior part of Vasai West. The activity was organized with a view to clean up the waste, trash and all kinds of garbage that was accumulated on the beach after the Ganpati Visarjan. During the occasion, loads of waste materials are left behind by the devotees and can turn out to be major cause of pollution as well as for the deterioration of aesthetic value of the beach. Large number of NSS UCoE volunteers participated in the activity with great enthusiasm and a motive to achieve a clean and trash-free beach.

Students cleaning Rangaon Beach, Vasai West

IEEE Activities

IEEE is the world's largest professional association dedicated to advancing technological innovation and excellence for the benefit of humanity.
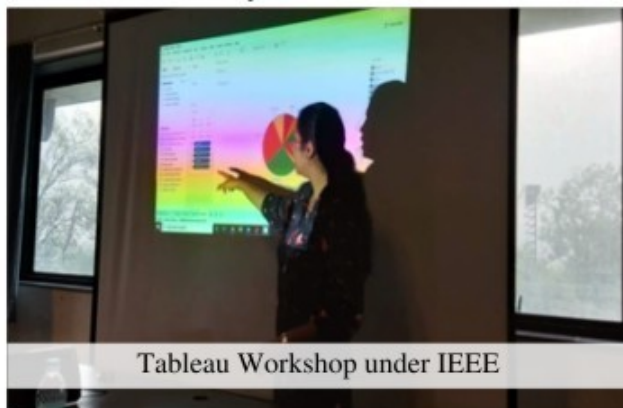

Tableau Workshop under IEEE

Tableau is a powerful and fastest growing data visualization tool used in the Business Intelligence Industry. It helps in simplifying raw data into the very easily understandable format. The event was organized to familiarize the girls with the working of Tableau.

UCoE students with IEEE team

Students at Organic Farming, UCoE

Organic Farming

One of the unique features of UCoE of Engineering is that it advocates the absolute need of organic farming and really seems to understand its sustainability. Students involved in agricultural activities in collaboration with local farmers with the aim of eliminating pesticide- laden vegetables the students under the guidance of skilful faculty initiated Organic Farming from 27th June 2017 and thus by supporting the farmers economically.

Students at College Field: Brinjal Plot preparation

Team prepared the Brinjal saplings in the campus. Students implemented use of cockpit for the preparation which was the learning from MPKV industrial visit. Team cultivated the saplings in the farm. For that plot was cleaned with the help of housekeeping staff. Soil beds were done for it. Green shade net was tied for the saplings.

Women Development Cell

The Women's Development Cell (WDC) aims to promote awareness on gender equality and gender sensitization in the society and among students in particular. Towards this end, the students are encouraged to undertake various research projects, participate in debates and awareness campaigns.

In keeping with the goal of women empowerment, the cell conducts self defence programmes for girl students and operates a Grievance Cell for urgent and effective handling of any gender related issues.

Awareness Program at Nagla ZP School on "Education As Opportunity"

Mrs. Sonal Borse explaining about opportunities of education at ZP School, Nagla Village

WDC committee member Mrs. Sonal Borse had delivered a session for school girls at Nagla ZP school on "Education as Opportunity". Also

other WDC members like Mrs. Kanchan Dabre spread awareness on "Menstrual Hygiene and Yoga". Session got over with a sweet distribution and interaction with parents of these school students.

Workshop on Awareness of PCOD - Polycystic Ovarian Disease

UCoE female Students and Staff attending PCOD awareness Workshop

A PCOD awareness session was organized for all women in the college. The prime speaker for the session was renowned Gynecologist Dr. Mukesh Patil. PCOD is a hormonal disorder. Statistics prove that 1 in every 10 women of childbearing age have PCOD. In order to spread awareness on the aforesaid health issue a session on "The causes, symptoms and treatment of PCOD/PCOS" was conducted by the Women Development Cell (WDC) and IEEE Women In Engineering(WIE) group of UCoE in association with the Lady Representatives of the Students' Council.

Add-On Courses

UCoE offers value added courses to the students that facilitate students to keep pace with trending technologies in the industry. We have connected with various organizations that will help students to get trained and improve their employability skills.

Unnat Bharat Abhiyan

Unnat Bharat Abhiyan is inspired by the vision of transformational change in rural development processes by leveraging knowledge institutions to help build the architecture of an Inclusive India. Their mission is conceptualised as a movement to enable processes that connect institutes of higher education with local communities to address the development challenges of rural India through participatory processes and appropriate technologies for accelerating sustainable growth. It also aims to create a virtuous cycle between the society and an inclusive university system by providing knowledge and practices for emerging professions and to upgrade the capabilities of both the public and the private sectors.

Student Solar Ambassadors (SSA) Workshop 2019

UCoE has organized Student Solar Ambassadors (SSA) Workshop on 2nd Oct., 2019. Many students and faculties have taken active participation in creating solar devices.

Students implemented their own solar devices at SSA Workshop

Robotics Club

Prof. Gaurav Shetty with participant Ms. Deesha Gavand

Robotics Club of UCoE had conducted a 40 Hours course on Firebird Robot every Saturday for 40 students for FREE! Students were selected for the course by taking an entrance test which is done every year in July for SE, TE all branches. Contents of the workshop were to understand and have hands-on experience on topics such as ATMEGA2560 Microcontroller, important concepts of Timers, Interrupts, PWM and ADC and Embedded C programming. Students interfaced controllers with BUZZER, Led, LCD, Motors, IR sensors and White line sensors.

Virtual Lab Learning

Virtual Labs in association with the Ministry of Human Resource and Development (MHRD) and Indian Institute of Technology (IIT) Bombay, provides measured data for virtual lab experiments corresponding to the data previously obtained by measurements on an actual system. Remotely triggering an experiment in an actual lab and providing the student the result of the experiment through the computer interface. Virtual Lab practical sessions are conducted remotely from the college premises itself.

Universal College of Engineering

Accredited with B+ Grade by NAAC
(Permanently Unaided | Approved by AICTE, DTE & Affiliated to University of Mumbai)
Gujarati Linguistic Minority Institution

In association with

Virtual Labs
An MHRD Govt of India Initiative

IIT Bombay

NODAL CENTER NO.1
http://iitb.vlab.co.in

Objectives of the Virtual Lab Project

To provide remote-access to labs in various disciplines of Science and Engineering.

To cater to students at the UG level, PG level as well as to research scholars.

To enable the students to learn at their own pace, and to arouse their curiosity.

To provide a complete Learning Management System that includes web-resources, video-lectures, animated demonstrations and self evaluation.

Minor Research Grant

Our three faculties have received the grant from University of Mumbai for Minor Research Project for Academic Year 2019-20. The Faculty members are as follows

Ms. Mudra Doshi, Information Technology
Research Topic: Health Monitoring & Analysis using Blockchain & IPFS
Amount - Rs. 18,000

Mr. Sandeep Dubey, Civil Engineering
Research Topic: Economical Humanoid Ellie
Amount - Rs. 26,000

Ms. Silviya D'monte, Computer Engineering
Research Topic: Crop Monitoring System
Amount - Rs.10,000

College Achievements

SPORTS EVENT ACHIEVEMENTS:

Drashti Gada was the winner in 100meter 200 meter race at L.R. Tiwari Inter College Sports Tournament 2020.

UCoE's Football team were winners at L.R. Tiwari Inter College Sports Tournament 2020.

UCoE Girl's Kabaddi Team as winners in L.R. Tiwari Inter College Sports Tournament 2020. and 1st Runner-up at COEP, Pune

UCoE Boy's Kabaddi Team as winners at VIT and 2st Runner-up at COEP, Pune

TECHNICAL EVENT ACHIEVEMENTS:

FE Students as winners in Goldberg's Alley event at TECHNEX 2020, IIT BHU, Varanasi

FE Students stood 1st Runner Up in 'SHE' event at TECHNEX 2020, IIT BHU, Varanasi

Rahul Lanjewar, Nidhish Mehra, and Shaikh Abdul Kabir at ACM Hackathon at M. H. Saboo Siddik College of Engineering, Mumbai

Mohd Faizal, Anushree Shetty, Shaurya Gulati team selected for National finals in e-yantra ideas competition EYIC by IIT Bombay

Hackathon Winners Jatin Gohil, Akshay Laddha, Ganesh Basyal, Sahil Nikam at S. B.

Jain Institute of Technology & Research, Yerla, Maharashtra

Sakshi Singh, Pritesh Mewada along with Mr. Yuvraj Chavda

Real Time Slope Failure Prediction System achieved First Prize in Civil Engineering Project under the guidance of Mr. Yuvraj Chavda at Institution of Engineers, India

FE Students as winners at Conference, "Bsides Ahmedabad 2019" held at Courtyard, J W Marriott

Winners - Vishwa Shah & Yash Shah (Cash Prize: Rs. 5000) for Bon - Auto Routier Event

2nd Runner-up - Yash Shah, Abhi Sanghvi and Mandeep Singh (Cash Prize: Rs. 3000) for Geo-Genius Event

2nd Runner-up - Krunal Darji and Mandeep Singh stood (Cash Prize: Rs. 2000) for Bon - Auto Routier Event

2nd Runner-up - Vrushabh Patel, Malav Patel, Rishikesh Pandey & Rajkumar Sanchaniya (Cash Prize: Rs. 2000) for Modelling Event

2nd Runner-up - Vishwa Shah, Smit Ramani, Krunal Darji & Kartik Darji (Cash Prize: Rs. 2500) for Master - Builder event

at CEA 2020 at IIT Madras

Winner, Mr. Meet Bhanushali at TECHXPOSURE 3.0 at S.K. Somaiya College of Arts, Science & Commerce, also won 3rd prize in 5 days Online Python Coding Challenge conducted by MHM's Outcome based Education

> " The mind is not
> a vessel to be filled
> but a fire to be ignited. "
>
> - Plutarch

Our Training Partners

Diginique TechLabs — Ideal for Geeks

CADD CENTRE® — Driving Digital Designs!

AUTODESK

PRISTINE InfoSolutions — securing the future...

EduCADD™ — Leaders Through Quality Education

eClerx

NASSCOM®

triedge.in

Dale Carnegie

SAGE Automation

BYJU'S — THE LEARNING APP

SWABHAV techlabs — Transformative Design-Driven Learning

NIMAP INFOTECH — FOCUS TO REDEFINE

Our Associations

Our Best Practices

Our college is known for transforming and empowering students who come from diverse backgrounds ranging from underprivileged sections to affluent ones. One of the best practices of our college is "Growing Within: Nurturing the potential of students, enabling them, empowering them to carve their unique paths". It helps to facilitate self-growth, self-worth and actualization of potential of the students through myriad ways of empowerment and competence building.

Internship and Pre-placement Training

Internship and Pre-placement training is been provided to update and train students with latest technical developments in the industry. Also to acquire the necessary skills for employment, innovation ability and developing aptitude towards research. Exposure to industry in the overall career development of the student is also provided. To encourage its students for internships and value added training programs. It Provide the better employment opportunities and provides a cutting edge over other college students during the pool campus recruitment drive.

The second step of experiential learning was internships and sponsored projects from industry. To enrich the practical knowledge of the students, the Institute motivated the students for internships & industrial visits right from their very first year of Engineering and this training, helped in improving the perspective, by bridging the gap between Industry and academia. In addition to the domain knowledge of the Engineering profession, other skills and abilities such as communication skills, leadership, innovation, team building are required to become successful in career, which are not directly covered in the curriculum. To address this challenge, UCoE has taken an appreciable initiative in connecting with professional trainers who have designed unique courses and test series on Innovation, Employability Skills Enhancement and Career Building focusing on Self Awareness, Professional Skills, Innovation and Communication skills.

Tantrotsav-Celebration of Engineering

The best designed event at UCoE is the "Tantrotsav-Celebration of Engineering" where various numbers of events are being showcased from every department and students are exposed to new technology and innovations in the market. This college level tech fest of UCoE is thoroughly enjoyed by every student. Wholehearted student's participation and involvement makes this tech fest a big success.

This event has been conducted since 2016 and is carried out in a grand way in the Institute. The motto of this Inter-Collegiate technical event is to prepare students to apply theoretical knowledge to overcome real-time problem statements of respective Departments.

UCoE has the advantage of having the best infrastructure based on international standards, spacious classrooms with modern amenities. UCoE has always extended full support and encouraged students to create technical projects and participate in various workshops and seminars to upgrade their knowledge and

get practical experience by attending various industrial visits to different places. Such practice always assures to place maximum students in various companies. Every student of UCoE gets an opportunity to increase knowledge, develop skills and positively influence attitude which results in overall improvement in pass percentage.

First Year Practice Tests

UCoE has come up with a new teaching learning tool called 'Practice Tests'. This activity has replaced the conventional assignments and journal write-ups. The activity is started for first year students as a pilot run. Upon positive results, the activity will be slowly incorporated in the whole campus. In this activity, students are supposed to study a set of questions from the curriculum. A test is announced to them in advance. The test is based on the set of questions. The test can be conducted offline or online using tools like Moodle, Google Classroom etc. This has helped in increasing students' ability to study the topics thoroughly and incorporate self-study in their academics. The results of the activity are positive and have a promising impact on the mentality of students. Further to add about online tests, these tests save paperwork and give flexibility to the students in terms of time and place.

Practice tests can be conducted online or offline. The uniqueness of the practice is that it was conducted online using Google Classroom tool. The same provides portable mean to take any test at any location having internet access. This goes beyond barriers like physical presence of students in the college and seating arrangement that has to be made in offline mode. It helps us saving pages, hence a step towards green initiatives.

Difficulty was faced initially to convince students and train them to use such a tool effectively. Another difficulty was the fact that the tests would be conducted outside the campus. Solution to this issue lies in the method it is being conducted with. Students are given a detailed question bank at least 8 days prior to the exam. The aim behind this is that they should practice ample no. of numerical. Students are informed well in advance about day and time of the test.

ISRO Outreach Program

IIRS outreach Program on "Hyperspectral Remote Sensing and its Applications"

Students of the Department of Civil Engineering Participated in 41th IIRS outreach Program on **"Hyperspectral Remote Sensing and its Applications"** from 21st Jan 2019 to 1st Feb 2019. The exam was conducted by Pillai ISRO outreach centre, Rasayani, Panvel through IIRS online Portal.

NEWSLETTER

Each department has its dedicated monthly newsletter. Newsletter consists of events, achievements, technical and non-technical articles of the respective departments for the respective months.

Our monthly Departmental newsletter is a tool to communicate the monthly activities of the respective Department to our Stakeholders. Newsletter helps us establish trust with our students, showing them that they're valued in the Institute. It consists of periodic updates, news, promotions, student and faculty achievements, and events' notifications and reports. Besides these, there are various respective technical articles, quizzes, brain storming puzzles, and other such technical fun articles. Also students' talents in arts, singing, and other extracurricular activities are also highlighted. This tool helps us strengthen the relationship between Department and students.

The main highlighting feature of Newsletter is "It is BY the Students, FOR the students and FROM the students, under guidance of faculties."

Newsletters titles of respective departments:

- Applied Science & Humanities: #ASHTAG
- Computer Engineering.: Coffee & Code
- Civil Engineering: The Benchmark
- Information Technology: Bits & Bytes
- Electronics & Telecommunication Engineering: Current Waves
- Electronics Engineering: ElectroBuzz

STUDENT's CHAPTER
Achievements

Department of Civil Engineering of UCoE achieved Active Students' Chapter at The Institution of Engineers, INDIA (IEI), BLC on 28th February 2020.

UCoE received 3 awards under CSI Student Chapter

UCoE receives Best Institute of the Year under CSI Student Chapter

Best Faculty of the Year Mr. Shridhar Iyer under CSI Student Chapter

Best Social Impact Project (Mr. Aniket Kore & Mrs. Kanchan Dabre) under CSI Student Chapter

> "
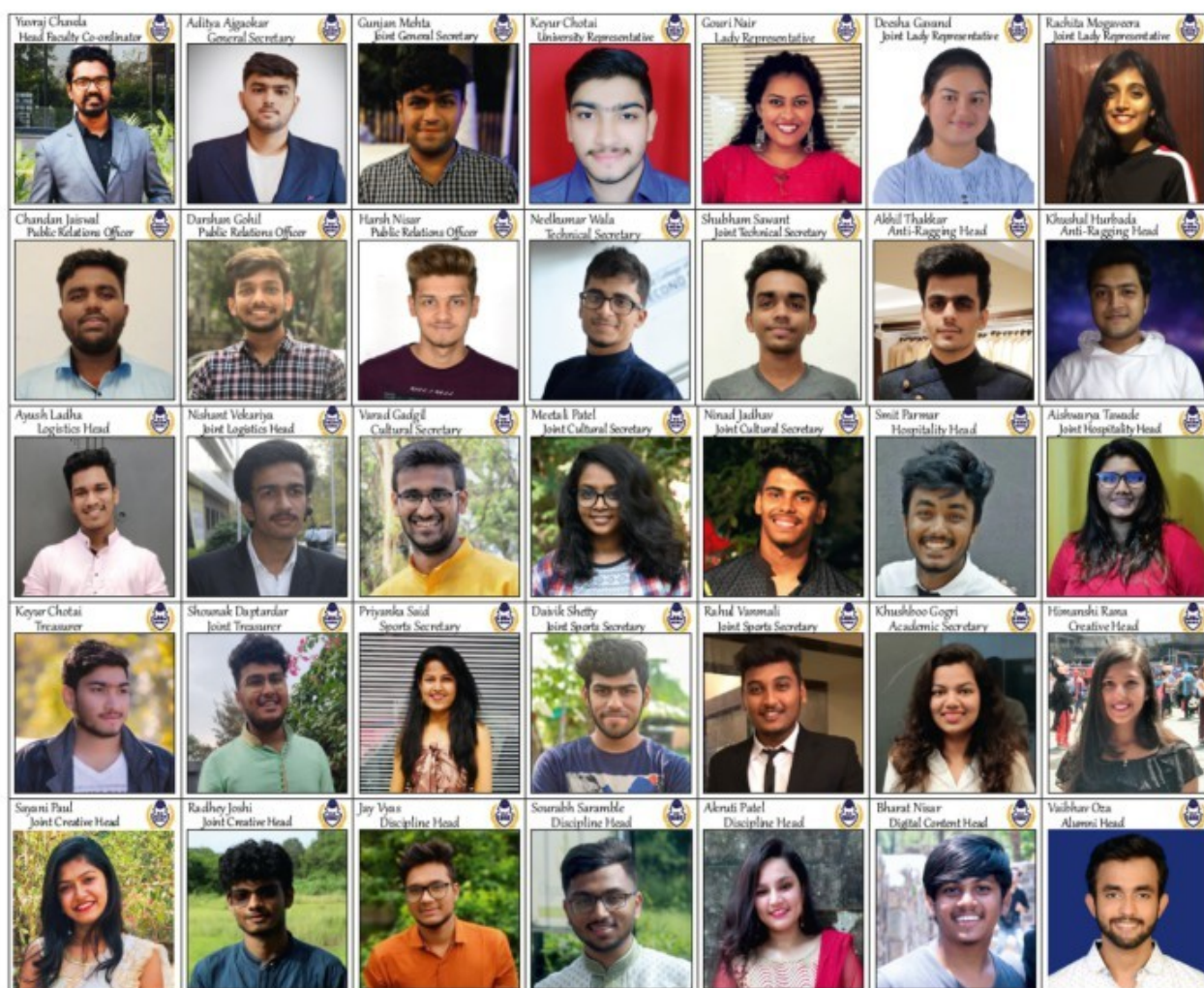> *Don't let what you cannot do interfere with what you can do.* "
>
> *- John Wooden*

Student Support

Our Student Council

Student council of UCoE has a voice and a contribution to make our college activities successful. Active partnership between Student Council and Faculty works effectively for the benefit of the entire college. It is important to give them the opportunity to express their views on issues of concern to them in the College.

> " *The function of education is to teach one to think intensively and to think critically. Intelligence plus character - that is the goal of true education.* "
> - Martin Luther King, Jr.

Yuvraj Chavda — Head Faculty Co-ordinator	Aditya Ajgaokar — General Secretary	Gunjan Mehta — Joint General Secretary	Keyur Chotai — University Representative	Gouri Nair — Lady Representative	Deesha Gavand — Joint Lady Representative	Rachita Moguveera — Joint Lady Representative
Chandan Jaiswal — Public Relations Officer	Darshan Gohil — Public Relations Officer	Harsh Nisar — Public Relations Officer	Neelkumar Wala — Technical Secretary	Shubham Sawant — Joint Technical Secretary	Akhil Thakkar — Anti-Ragging Head	Khushal Hurbada — Anti-Ragging Head
Ayush Ladha — Logistics Head	Nishant Vekariya — Joint Logistics Head	Varad Gadgil — Cultural Secretary	Meetali Patel — Joint Cultural Secretary	Ninad Jadhav — Joint Cultural Secretary	Smit Parmar — Hospitality Head	Aishwarya Tawade — Joint Hospitality Head
Keyur Chotai — Treasurer	Shounak Daptardar — Joint Treasurer	Priyanka Said — Sports Secretary	Daivik Shetty — Joint Sports Secretary	Rahul Vanmali — Joint Sports Secretary	Khushboo Gogri — Academic Secretary	Himanshi Rana — Creative Head
Sayani Paul — Joint Creative Head	Radhey Joshi — Joint Creative Head	Jay Vyas — Discipline Head	Sourabh Saramble — Discipline Head	Akruti Patel — Discipline Head	Bharat Nisar — Digital Content Head	Vaibhav Oza — Alumni Head

Institutional Rankers

AY 2018-19

ISHA PRAJAPATI
Applied Science & Humanities
CGPI - 9.30

Ashwini Jadhav
Computer Engineering
CGPI - 9.01

Ami Gosalia
Information Technology
CGPI - 8.40

Karan Chitroda
Civil Engineering
CGPI - 8.85

Ronak Dalvi
Electronics and
Telecommunication
Engineering
CGPI - 7.96

Pratik Panchal
Electronics Engineering
CGPI - 8.04

❝

AWAITING such Stalwarts in 2019-20 and future

❞

Our Distinguished Alumni

UCoE values their alumni greatly. These alumni make it a point to bring back to their alma mater, their exposure and experience. They maintain regular contact with their former institute and extend all possible guidance, counselling and tips for the benefit of the current UCoE Education students.

Azhar Somani
Computer Engineering
ITRP, **GOOGLE**

Sagar Kawthankar
Computer Engineering
Software Development
Engineer-I, **AMAZON**

Jigar Chauhan
Information Technology
CEO-Eversmile Realtors

Rushabh Karelia
Electronics and
Telecommunication Engineering
Startup name: Light Creators

Ami Gosalia
Information Technology
RPA Developer,
Second Machine Age
Consultancy Services Pvt.

Higher Studies

Riddhesh P. Joshi
University of New South Wales
Masters in Engineering Science
(Geotechnical Engineering and
Engineering Geology)

Ayush Raghunath Kottary
The University of Adelaide
Masters in Construction
Management

Abhishek Pandya
Northeastern University College
of Professional Studies
Masters in Professional Studies
in Analytics Program

Vatsa Patel
University of Dayton, Ohio (USA)
Masters in Computer Science

Jaspreet Singh Bedi
RMIT University Melbourne,
Australia
Masters in Cyber Security

Anjali Dwivedi
University of Dayton, USA
Masters in Computer Science

Rohan shah
Rochester Institute of Technology, US
MS in Electrical Engineering

Higher Studies

Sr. No.	Name of Student	Department	University Admitted To	Course Name
1	Hrishikesh Gadkari	Computer	Syracuse University	MS in Computer Science
2	Varun Nair	Computer	University of Dayton - USA	MS in Computer Science
3	Aadit Prabhu	Computer	University of Dayton - USA	MS in Computer Science
4	Arvind Sethuraman	Computer	University of Dayton - USA	MS in Computer Science
5	Dishank Sanghavi	Computer	University of Texas, Arlington USA	MS in Computer Science
6	Rachit Mehta	Computer	VJTI	MTech (Computer Engineering)
7	Jaspreet Singh Bedi	Computer	RMIT University, Melbourne Australia	Master of Cyber Security
8	Krishnaviraj Walunj	Computer	RMIT University, Melbourne Australia	MS
9	Sagar Mistry	Computer	Amity University, Haryana	M.Tech - Networking and Cyber Security
10	Palak Barot	Computer	Fanshawe college, Canada	MS
11	Parth Patel	Computer	Rutgers University USA	MS
12	Mohammed Shaheer Khan	Computer	NMIMS	MTech Data Science
13	Ketan Gharge	Computer	Pursuing PG-DAC from CDAC	Post Graduate Diploma in Advance Computing
14	Anjali Dwivedi	Computer	University of Dayton - USA	Masters in Computer Science
15	Nitisha Patange	Computer	Texas Tech University, USA	MS
16	Nikunj Patel	Computer	University of Texas at Arlington	MS
17	Sidhi Nagarkar	Computer	NMIMS	Masters in Business Administration
18	Dhiren Patel	Computer	Charles Sturt University	Masters in Data Science
19	Dhaval Panchal	Civil	Texas A&M University	Masters in Civil Engineering
20	Hrishikesh Sawant	Civil	Oklahoma State University	Masters in Civil Engineering

Higher Studies

Sr. No.	Name of Student	Department	University Admitted To	Course Name
21	Khayali Mehta	Civil	Massey University,Newzealand	Masters in project Management
22	Suriel Gupte	Civil	Datta Meghe College of Engineering	ME in Structural Engineering
23	Vidhi Soni	Civil	Edith Cowan University	Masters in Civil Engineering
24	Rishab Shah	Civil	NICMAR, INDIA	MTech in Construction Management
25	Mayur Chauhan	Civil	University of Adelaide	MTech in Construction Management
26	Ninad Kanekar	Civil	University of Adelaide	Masters in Structural Engineering
27	Ishan Doshi	Civil	NICMAR, INDIA	MTech in Construction Management
28	Aanit Shah	Civil	NICMAR, INDIA	MTech in Construction Management
29	Varun Prabhu	Civil	George Mason University	Masters in Infrastructure Engineering
30	Yash Badani	Civil	RICS	MBA in Project Management
31	Gaurav Israni	Civil	NICMAR, INDIA	MTech in Construction Management
32	Rohan Shah	EXTC	Rochester Institute of Technology, USA	Masters in Electrical Engineering
33	Abhishek Alkesh Pandya	IT	Northeastern University College of Professional Studies	MS in Professional Studies in Analytics Program
34	Pandya Harsh Rohit	IT	UCD, DUBLIN	MSc Digital Investigation & Forensic Computing
35	Karan Panchal	IT	University of Dayton, USA	Master of Computer Science
36	Shivani Malde Ahir	IT	RMIT University	Master of Business Information Technology
37	Vatsa Sanjay Patel	IT	University of Dayton, USA	Master of Computer Science
38	Tejas Kadam	Civil	University of Colorado Boulder	Construction Engineering and Management
39	Ayush Raghunath Kottary	Civil	University of Adelaide	Masters in Construction Management
40	Riddhesh P. Joshi	Civil	University of New South Wales	Masters in Engineering Science (Geotechnical Engineering & Engineering Geology)

Training & Placement

The training and placement Cell is committed to provide all possible assistance to its graduates in their efforts to find employment. The aim is to ensure that students have the information and skills necessary for an effective job search. Moreover, the Training & Placement Cell helps the students to improve their communication skills and presentation skills.

PLACEMENT RECORD FOR LAST THREE YEARS

SR. NO.	DECIPLINE	Total number of students placed		
	ACADEMIC YEAR	2019-2020	2018-2019	2017-2018
1.	Computer Engineering	88	94	53
2.	Information Technology	39	42	23
3.	Civil Engineering	18	24	9
4.	Electronics Engineering	6	3	4
5.	Electronics and Telecommunication Engineering	5	4	17
	TOTAL	156 (till 15th Mar 2020)	168	106

FOR ACADEMIC YEAR 2019-20
MAXIMUM PACKAGE: 12 L.P.A
AVERAGE PACKAGE: 5.15 L.P.A
MINIMUM PACKAGE: 3.0 L.P.A

Shourya Gulati
Jaro Education
CTC: 12 LPA

Ruchi Kapadiwala
Jaro Education
CTC: 12 LPA

Yash Parikh
Jaro Education
CTC: 12 LPA

Placement Companies

upGrad

LTI
Let's Solve

ZEUS LEARNING
•••boundless thinking

PARAmatrix™
PERCEPTION TO FRUITION
On Demand IT Services

ELEATION™

toppr

TEKBURO® ENGINEERING PVT. LTD.

Nucsoft Ltd

wipro

TATA
TATA CONSULTANCY SERVICES

Tech Mahindra

credence
analytics

AtoS

A ONE SALASAR

jaro education™
ISO 9001:2008 Certified

aws

S⊘GoSurvey

Tax-O-Smart

eScan™
Enterprise Security

Infosys

IBM

VISTAAR

Capgemini
CONSULTING.TECHNOLOGY.OUTSOURCING

Placement Companies

Our Distinguished Faculties

Dr. JitendraSaturwar, M.E. Ph.D.

Professor, Head of Computer Engg. Dept. Published total 22 papers in Scopus indexed,IEEE Xplore,UGC Care journals.

Dr. DiptiPatil, M.E. Ph.D.

Professor, Dept. of Computer Engg.

IEEE publications 4, Scopus Index 5, UGC Care 9, Total journals 32Total conferences 43.

Award : Krantijyoti award for best achievements in academics.Best Paper award in international conference held at Saraswaticollege of engineering. Guided more than 30 students at ME level.

Dr. Ekta Upadhyay, M.E. Ph.D.

Associate Prof., Dept. Computer Engg.

Published 16 papers Scopus Indexed: 04, Elsevier: 02, Successfully implemented "1st year bridge Course" . Successfully completed Mission 10X - Teaching & Learning Skills program for innovative ideas in teaching conducted by Wipro Initiated "Online Learning sessions" for engineering aspirants

Dr. RuchiTripathi, M.E. Ph.D.

Assistant Professor, Dept. of ASH

Core team member and chief coordinator for TCS Accreditation.

Dr. JitendraB. Patil, M.E. Ph.D.

Assistant Professor, Dept. of ASH

Books published titled:

(1)"Engineering chemistry II" through Gaurang Publishers.
[ISBN:978-81-944696-1-2],

(2)"Applied chemistry I" through Blue rose Publishers.
[ISBN:978-93-87-996-20-5],

(3)"Applied chemistry II" through Blue rose Publishers.
[ISBN-978-93-5347-207-8],

Published total 08 papers in journals

Mrs. Teena Trivedi, M.E. Ph.D. (Pursuing)

Assistant Professor, Dept. of ASH

Presented paper in national and international conference and published 8 research papers in UGC approved journal.

Mrs. Yogita Mane, M.E. Ph.D. (Pursuing)

Assistant Professor, Head of IT Dept.

1. Till date Published 17 papers in IEEE, UGC approved journal

2. 4 papers accepted in year 2019-2020 (1- Inderscience Unpaid Journal, 2 IEEE conferences and 1 in Springer network Book series).

3. Foundation Level ISTQB certified for Software Testing and Quality Assurance.

Mr. Rajesh Dubey, M.E. Ph.D. (Pursuing)

Assistant Professor, Head of Civil Engg.

Dept. published 2 papers in UGC approved journal

Mrs. Kaveri Sawant, M.E. Ph.D. (Pursuing)

Assistant Professor, Head of EXTC Engg. Dept.

1. Papers Published IEEE:2,

2. Scopus Indexed:2

3. 8 papers in UGC Approved Journal

4. Received ISA(International Society of Automation) Student Mentor of the Year 2018.

5. Certified with NIESBUD on Entrepreneurship Development in Solar Technology.

Mr. Asir Khan, M.E. Ph.D.(Pursuing)

Assistant Professor, Dept. of Civil Engg.

1. Presented research paper at International Conference "Transportation Research Board" at Washington DC in Jan 2018.

2. Presented Paper in International Conference "World Conference in Transportation Research" at IIT Bombay.

3. Research paper Presented in International Conference "Eastern Asia Society for Transportation System" at Sri Lanka

4. Received Minor research grant of Rs. 20,000 from Institution of Engineers (India)

5. Received Appreciation trophy for active Student Chapter of Institute of Engineers (India) from Institute of Engineers (India) Belapur Chapter

Mr. Masiyuddin Khan, M.E. Ph.D. (Pursuing)

Assistant Professor, Dept. of ASH Published 4 papers in UGC approved journal and 2 in IEEE Xplorer and 1 in Springer

Mrs. Sonal Borase, M.E. Ph.D.(Pursuing)

Assistant Professor, Dept. of ETRX Engg.

1. Publications: 10
2. International Journal: 05
3. International Conferences: 05

Mr. Kapil Gavali, M.E. Ph.D.(Pursuing)

Assistant Professor, Dept. of ETRX Engg.

1. Received "Best Paper Award" for paper titled "VLSI Design of High Speed Vedic Multiplier for FPGA Implementation" in 2nd IEEE International Conference on Engineering and Technology.

2. A paper titled "Addition Algorithms for VLSI - A Review" published in UGC Approved Journal named " IOSR Journal of VLSI and Signal Processing"

Mr. John Kenny, M.E. Ph.D.(Pursuing)

Assistant Professor, Dept. of Computer Engg.

Published 9 papers in UGC care Journals, 2 paper accepted in Conferences in the year 2020 (papers to be published in Scopus Indexed Journal and Scopus Indexed Book Series (Springer LLNS) respectively.

Mrs. Kanchan Dabare, M.E. Ph.D. (Pursuing)

Assistant Professor, Dept. of Computer Engg.

1. Best Social Impact Project Award by CSI Technext 2020,

2. Reviewer for IEEE International Conference on Convergence to Digital World- Quo Vadis (ICCDW- 2020)

3. 16 IEEE, UGC care paper Publications.

4. Received Best CSI Student Branch award consecutively three year during my tenure of branch counsellor

Mrs. Hezal Lopes, M.E.

Assistant Professor, Dept. of Computer Engg.

1. IEEEXplore 05

2. Springer 01

3. UGC Approved Journal:10

4. Received "Best Student Examplery Award 2019" from IEEE.

Mr. Chinamay Raut, M.E.

Assistant Professor, Dept. of Computer Engg.

1. Book published titled "Understanding Digital Forensics and Incident Response in a simplified manner" through Bluerose Publishers

2. 3 papers published in UGC approved Journals

Mr. Sridhar Iyer, M.E.

Assistant Professor, Dept. of Computer Engg.

1. Best Faculty Award Mc for publishing book on contemporary subjects from CSI, Certified Ethical Hacker (CEH) from EC COUNCIL USA renewed till March 2023

2. 4 papers published in UGC Care Approved Journal.

3. Book published titled "Understanding Digital Forensics and Incident Response in a simplified manner" through Bluerose Publishers

Mrs. Mudra Doshi, M.E.

Assistant Professor, Dept. of IT

1. Received Minor research Grant for the project "Health Monitoring & Analysis using Blockchain & IPFS" under University of Mumbai

2. Paper published in IEEE on topic "Health Monitoring & Analysis using Blockchain & IPFS"

3. Five papers are published in journal, One in Elsevier and two in IEEE Conference

Mr. Sandeep Dubey, M.E.

Assistant Professor, Dept. of EXTC Engg.

1. Published 4 papers in IEEE Xplorer and UGC care approved Journals.

2. Got Minor project research grant for the project " ELLIE-Humanoid Robot"

Mrs. Silviya D'monte, M.E.

Assistant Professor, Dept. of Computer Engg.

1. Published 3 papers in IEEE,3 UGC CARE publications

2. Got Minor project research grant for th project " CROP Monitoring System",

3. Foundation Level ISTQB certified for Software Testing.

Mr. Yuvraj Chavda M.E.

Assistant Professor, Dept. of Civil Engg.

1) Completed 3 months Research program at 'Structural Health Monitoring Laboratory', IIT(Bombay) under the supervision of Dr.Sauvik Banerjee.

2) Won Best Project in Civil Engineering category at 25th Anniversay of Institution of Engineers' (IEI), Belapur, Local Center

3) Secured 2nd Position at CENEX,2018 (IIT Bombay) for project on "Real Time Structural Health

Mr. Ravi Nagar, M.E.

Assistant Professor, Dept. of Computer Engg.

1.Certificate of Appreciation awarded for "Active SPOC" from NPTEL.

2. Published 1 paper in IEEE conference

3. 4 papers in IJREAM journal

4. 2 papers in UGC CARE journals.

Transport Facility

The institution runs several of its own buses to and from UCOE for its students, staff and Faculty members. Public Transport facility is also available near the campus.

The Route for the Bus:

1. From Borivali to UCoE

2. From Golden Nest Circle to UCoE

3. From Vasai Road to UCoE

4. From Thane to UCoE

SCHOLARSHIP
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Merit-Based Scholarship

Civil Engineering, Computer Engineering and Information Technology Engineering branches only
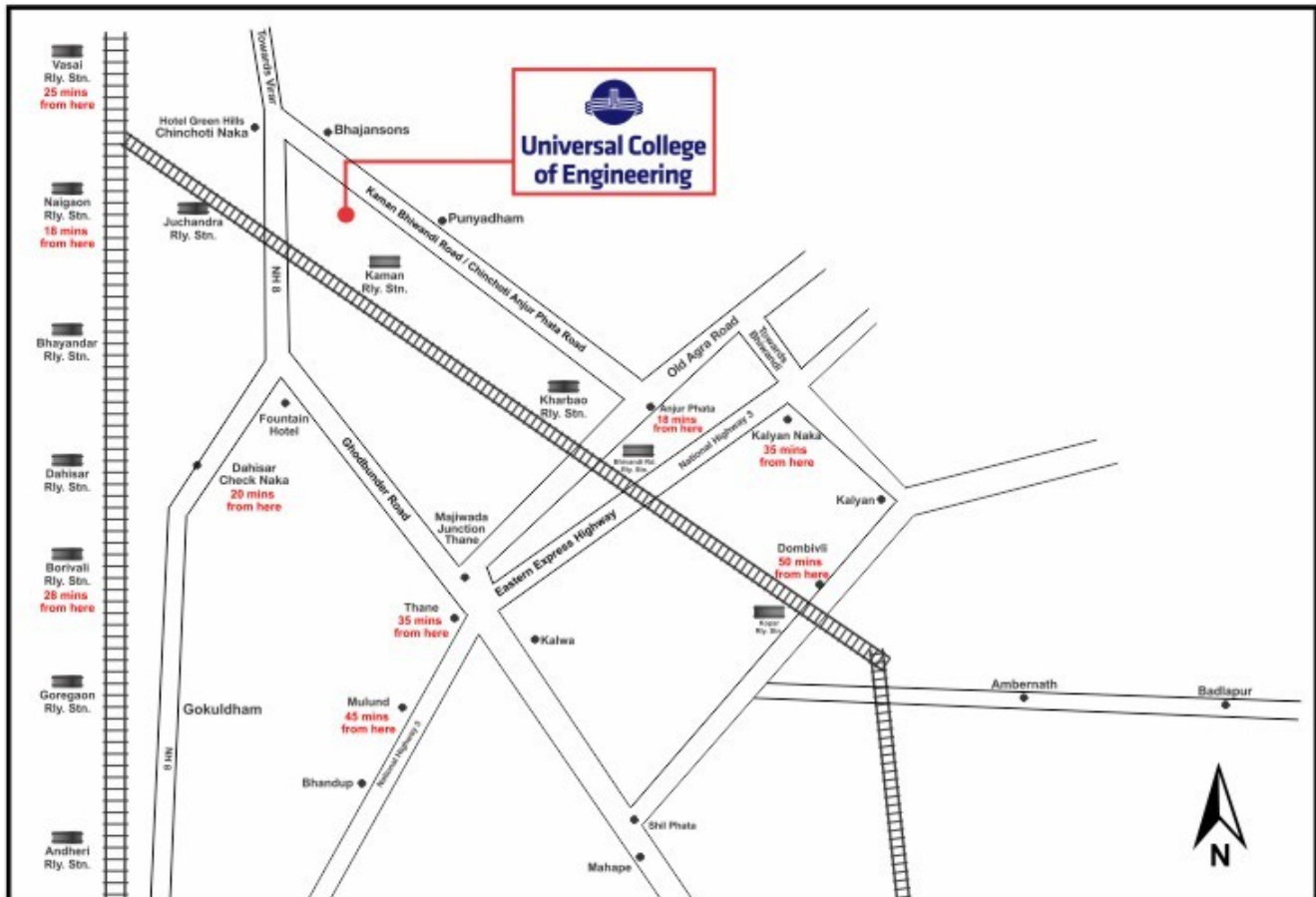20% Merit-Based Scholarship for students with 90% or more score in the qualifying examination i.e. the CET.

FE Civil Engineering Scholarship

Score of more than 75 at CET: shall be awarded scholarship of 30% in fees payable by the student, between 74.99 to 70: 25%, 69.99 to 60: 20% and others 10%

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