Yearly Status Report - 2019-2020

Part A	
Data of the Institution	
1. Name of the Institution	**UNIVERSAL COLLEGE OF ENGINEERING**
Name of the head of the Institution	**Jitendra B. Patil**
Designation	**Director**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**0250-6962458**
Mobile no.	**9029144325**
Registered Email	**ucoe.principal@universal.edu.in**
Alternate Email	**director.ucoe@universal.edu.in**
Address	**Universal College of Engineering,Kaman Bhiwandi Road, Kaman Vasai-401208**
City/Town	**Kaman Vasai East**
State/UT	**Maharashtra**
Pincode	**401208**

2. Institutional Status

Affiliated / Constituent	**Affiliated**
Type of Institution	**Co-education**
Location	**Urban**
Financial Status	**private**
Name of the IQAC co-ordinator/Director	**Mudra Doshi**
Phone no/Alternate Phone no.	**02506962458**
Mobile no.	**9029652532**
Registered Email	**mudra.doshi@universal.edu.in**
Alternate Email	**mitali.poojary@universal.edu.in**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://universalcollegeofengineering.edu.in/wp-content/uploads/2021/08/aqar-report-18-19.pdf

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	https://universalcollegeofengineering.edu.in/wp-content/uploads/2021/08/Academic-Calendar-for-Odd-Sem-For-HIGHER-Semester-2021-2022-1-1.pdf

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**B+**	**2.51**	**2018**	**02-Nov-2018**	**01-Nov-2023**

6. Date of Establishment of IQAC	**29-Jul-2016**

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture

Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Subject Orientation on Software Testing & Quality Assurance	06-Jul-2019 1	16
30 hour Course on Firebird V in association with Robotics Club of UCoE	10-Aug-2019 64	21
Flood Relief Donation in association with NSS	16-Aug-2019 1	44
Session on PCOD/PCOS in association with Women Development Cell and IEEE- Women in Engineering, UCoE.	29-Aug-2019 1	137
Workshop on Solar Lamp Asseembly Solar Brand Ambassador Association with IIT Bombay under Unnat Bharat Abhiyan(UBA)	02-Oct-2019 1	207
Project Based Learning Exhibition organized by Department of Computer Engineering , UCoE	18-Nov-2019 1	70
Book Donation drive in association with Rotaract Club	20-Jan-2020 11	472
Energy Transformania	13-Feb-2020 1	20
Mystery Room in association with IET by Department of EXTC, UCoE	18-Feb-2020 17	17
Junior Tantrotsav	07-Mar-2020 1	502
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8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Universal College of Engineering, Electronics and telecommunication (EXTC) department , Mr. Sandeep Dubey	Minor Research Grant	University of Mumbai	2020 106	26000

Universal College of Engineering, Department of Information technology , Ms. Mudra Doshi	Minor Research Grant	University of Mumbai	2020 106	18000
Universal College of Engineering, Department of Computer Engineering, Mrs. Silviya D'monte	Minor Research Grant	University of Mumbai	2020 106	10000
Universal College of Engineering, Department of Information technology , Ms. Mudra Doshi	Student welfare	Vidya Vikas Education Trust	2019 180	5250
Universal College of Engineering, Department of Information technology , Mr. Akshay Agrawal	Student welfare	Vidya Vikas Education Trust	2019 180	4130
Universal College of Engineering, Department of Computer Engineering, Mrs. Hezal Lopes	Unmanned Areil Vehicle (Quadcopter) Activity	IEEE Women in Engineering Affinity group	2019 25	4068
Universal College of Engineering, Department of Computer Engineering, Mr. Sridhar Iyer	Student welfare	Vidya Vikas Education Trust	2019 280	2314
Universal College of Engineering, Department of Computer Engineering, Dr. Jitendra Saturwar	Student welfare	Vidya Vikas Education Trust	2019 310	1650
Universal	Student welfare	Vidya Vikas	2019	20000

| College of Engineering, Electronics and telecommunication (EXTC) department , Mr. Deepak Dave | | Education Trust | 270 | |
| Universal College of Engineering, Electronics and telecommunication (EXTC) department , Mrs. Neelam Bhoir | event Mystery Rooms – The escape Plan (Electra) | The Institution of Engineering and Technology (IET), Mumbai | 2020 18 | 15000 |

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9. Whether composition of IQAC as per latest NAAC guidelines:	**Yes**
Upload latest notification of formation of IQAC	View File
10. Number of IQAC meetings held during the year :	**4**
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	**Yes**
Upload the minutes of meeting and action taken report	View File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	**No**

12. Significant contributions made by IQAC during the current year(maximum five bullets)

1. REVIT UNDER III: Department of Civil Engineering in Collaboration with Industry experts carried a series of meetings for improving the employability of fresh Civil Engineering Graduates. The meetings involved Principals and senior faculties related to Civil Engineering programs affiliated with the University of Mumbai. As per the suggestions and discussion, a course on Revit Structures by Industry practitioners was conducted for students of the Civil Engineering Department at UCoE. The successful completion of the Revit course had motivated industry representatives which then suggested arranging a paid BIM training by Industry practitioners for the students of institutes affiliated with the University of Mumbai. The BIM course is expected to start by August 2020.

2. STUDENT SOLAR AMBASSADOR WORKSHOP: The Student Solar Ambassador (SSA) Workshop, aimed to sensitize the young (future) generations who will be bearing the maximum burden of climate change. If students, in their early age, learn to make their own solar devices and use them, not only they will likely be future

users of the solar energy but they will also be promoting its usage in their own generations and become Student Solar Ambassadors. Keeping this in mind, as a part of Unnat Bharat Abhiyan in association with Innovation cell and NSS group, Universal College of Engineering, organised a workshop to train students and sensitize them towards solar energy in the college premises on 2nd October 2019, marking the 150th birth anniversary of Mahatma Gandhi, who epitomized the cause of nonviolence (principles). Wherein more than 200 students from various departments assembled their own solar study lamps and also took a pledge of Nonviolence towards the Environment.

3. Energy Transformania: The event is based on the concept of Contraption. This is a chain reaction between mechanical linkages that form various mechanisms. The whole mechanism is structured using waste material from households or Industry. The energy input given in the first stage completes the final target via several energy conversions throughout the process. The project has helped students to combine their creativity with fundamentals of Physics and Mechanics to create a Mechanical System. A part of this team is then selected for participation in a technical event called Goldberg's Alley held every year at IIT(BHU), Varanasi and bagged 1st runnerup prize.

4. Project Based Learning: Project based learning is the skill development program for students where students can implement their subject knowledge with practical implementation. This was the platform offered to SE and TE students to explore their knowledge by implementing one project in semester apart from their curriculum projects. Students were able to understand the development of problem statement solutions, design User interface for Product. "Project Exhibition of Best Projects in PBL" was organized on 18th October 2020. All faculties from UCoE visited every project in the exhibition and gave their feedback on work done.

5. Inauguration of Rotaract Club: Rotaract Club of Universal College of Engineering was initiated in the year 2019. This club was established under the guidance of Rotary Club of Vasai. Clubs main motive was to bring the hidden talent out from their members. To make every Rotaractor dream come true be it big or small was the initial thought behind initializing the club. Each member is learning new things on a daily basis. Members have developed professionally as well as personally. Members who were timid and not so confident are leading the team and have overcome their shyness. Every member comes up with an innovative idea which is helpful for every club member. Teamwork is the key for the growth of this club. It has been two years to this club and together every member so far has achieved a lot. Expanding the team as much as they can is the aim of this club. Clubs main focus is that all their members should get professional world exposure. Future plan is to take the minor scale projects to the major scale. More precisely, the club is focused on Community Service projects.

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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes
Newly admitted students to be provided a structured program aimed to help them adjust and feel comfortable in the new Institute environment, inculcate in	Successfully conducted Student Induction Program for First year students in the month of August 2019 and January 2020 at the beginning of

them the ethos and culture of the institution, help them build bonds with other students and faculty members.	each semester.
Industrial Visits in addition to those mentioned in the curriculum, needs to be undertaken with a view to increase Industry-academia interaction.	Successfully completed Industrial Visit to Bhandardara Dam, Food Procession Unit, Children Garden Studio, Lavasa city, MSME testing center, Survey Project at Khopoli, MTNL Powai, etc.
Adopt effective tool to have single platform for managing all academic records.	MIS system is at budding stages and upgraded incrementally as per the suggestions of the end user.
Organise Short Term Training Programs, Workshops, Guest Lectures, Seminars for students to enhance their knowledge, Skills and Competency in all departments.	Every department conducted Guest Lectures/Seminars/Workshops in Campus till we switched to the Digital platform to conduct webinar, FDP, STTP in Pandemic situation(from March 2020)
Enhance participation of faculties and students in National/International Conferences, Publish quality papers in reputed journals.	"Faculties as well as Students participated in reputed journals like: International Multidisciplinary Conference on ""Present and Future Challenges of Lockdown in India"", and "The Innovative Role of Languages,Science,Technology & Research on Cultural and Environmental Perspectives on Global Platform"". Published Paper in Journals like IJRET, JETIR, IRJET, IOSRJEN, IJRASET etc. Total Research Paper published- 92"
Faculties needs to arrange/attend subject orientation for newly introduced courses in syllabus.	"Successfully conducted Subject Orientation on Software Testing & Quality Assurance by Department of Information Technology, Syllabus revision meeting on Analysis of Algorithm by Department of Computer Engineering. Successfully attended various subject orientation program for newly introduced course in respective departments."
For industry exposure of students, it was suggested to involve an industry expert interaction in all the aspects like curriculum design, guest sessions, and industrial visits and so on.	"Department of Civil Engineering proposed the Industry-Institute Interaction Cell in front of panel with various University of Mumbai undergoing Civil engineering program along with Industry expertise.On basis of this the Department also conducted Structural Engineering Practice course. National Level Awareness program in association with Ministry of Micro, Small and Medium Enterprises(MSME) and Industrial visit to MSME testing center,Andheri, was organized by Department of Computer Engineering"
Motivate Faculties and students for Project grants from Government and Non-Government organizations.	"Faculties & Students applied for project grant in IEI, IEEE, UGC and University of Mumbai under the guidance

	of their project guides. Three faculties received grant from University of Mumbai under Minor Research Grant(MRG) IEEE & IET Student Chapter of UCoE received grant from respective student chapter Headquaters for their outstanding project/event works."
Conduct Social activities under NSS, UBA and WDC to practice national integration and social harmony.	"Successfully conducted various activities under NSS/UBA/WDC Also Rotract Club of UCoE was inaugrated and various social activities were conducted under the same."
Encourage students for Competitive exams like GATE, GRE, TOFEL, etc.	28 Students cleared exams like GATE, GRE, TOFEL, IELTS, PTE etc.

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14. Whether AQAR was placed before statutory body ?	**Yes**

Name of Statutory Body	Meeting Date
Governing Council (GC)	18-Jul-2020

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	**No**

16. Whether institutional data submitted to AISHE:	**Yes**
Year of Submission	**2020**
Date of Submission	**10-Feb-2020**
17. Does the Institution have Management Information System ?	**Yes**
If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	**Management Information System (MIS) attendance module that was developed by the software development team of the department of Computer Engineering is being used since July 2019 for attendance record maintenance. The MIS system is at its budding stages and is being upgraded incrementally each semester. It's various modules so far are Faculty Registration, Student Registration, Subject allocation, Elective subject allocation, Unique PID Generation, Practical Batch Allocation, Division allocation of students, all courses' Theory Practical Attendance,**

and overall Attendance Report generation. It can generate defaulter lists weekly or monthly as per the user (faculty) requirement. The MIS system was deployed on a localhost 192.168.9.1/MIS. Faculties can upload lecture attendance into MIS after every lecture. Reports can be easily generated using the system.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

Universal College of Engineering (UCoE) is recognized by AICTE, DTE & Government of Maharashtra and affiliated to University of Mumbai (UoM). The UCoE management ensures that all faculty members participate in the Workshops arranged by the Board of Studies(BoS) of UoM for syllabus revision and Workshops organized to study and understand the amendments. UCoE follows a structured strategy plan for effective implementation of the curriculum prescribed by the UoM for various Programs. Actions Plan To prepare the academic calendar at Institute level in consonance with the academic calendar of the UoM. To distribute workload to teachers, based on core competency and experience in the subjects. To prepare and continuously upgrade the Lesson plan, Course Files /Laboratory Manuals, maintenance of all laboratory equipment and devices, Installation of all Software (if required) by faculties for their allotted subjects. To prepare Master timetable & Class timetables, verified by Heads of respective departments and are then displayed on all conspicuous locations. To organise Expert lectures by Experienced faculties/ Industrial personnel with the aim to bridge the gap between academics & Industry. To analyse monthly students' attendance to ensure minimum 75% benchmark as per UoM regulations. To evaluate student's performance based on Tutorials, Internal Assessment tests, Assignments and Presentations and to arrange remedial lectures for weak students on basis of performance analysis. To conduct a Mentoring session to take care of mentees' overall performance and guide them for betterment. To organise Parents' meet with concerned faculties to give the parents an overview of their ward's performance. To Conduct End semester examination and perform assessments as per university norms. To conduct result analysis of both direct and indirect analysis after declaration of results and determine the achievement of course objectives and the vision and mission of the department and Institute. To motivate every student to participate in an internship program during summer vacation. To ensure that faculties availing any kind of leave, make alternate arrangements for Conducting Lecture / Practical, in his / her absence. To conduct recruitment drives on/off campus for registered eligible students of final year and in few cases, for third year students too. To overcome the hurdle in physical attendance in campus, that arose due to pandemic in March 2020, the digital platforms were enhanced and new technologies were given priority by the teaching fraternity to avoid any lag in teaching pattern/timetable Deployment of Action Plan Before commencement of each semester, Campus Director /Principal conducts an Orientation program to apprise the faculty of the suggestions received from IQAC and guidelines about the execution of the action plan. Later each Head of the Department conducts a departmental level meeting to discuss the line of action in implementing the Action Plan as per the specific requirements of the department. Induction

program is conducted for first year students before starting their curriculum in order to make the newly enrolled students get acquainted with the engineering education system and to aid their mental and psychological acceptance to new education environments and bond with fellow students and

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entreprene urship	Skill Development
Coursera Online Courses	**Nil**	**03/04/2020**	**21**	**Employabil ity**	**Technical Skill**

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	**Computer Engineering**	**08/07/2019**
BE	**Information Technology**	**08/07/2019**
BE	**Civil Engineering**	**08/07/2019**
BE	**Electronics Engineering**	**08/07/2019**
BE	**Electronics & Telecommunication Engineering**	**08/07/2019**
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	**Final Year Computer Engineering**	**08/07/2019**
BE	**Final Year Information Technology**	**08/07/2019**
BE	**Final Year Civil Engineering**	**08/07/2019**
BE	**Final Year Electronics Engineering**	**08/07/2019**
BE	**Final Year Electronics and Telecommunication**	**08/07/2019**

1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	**293**	**Nil**

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Moralities of everyday life course under IEEE	**23/07/2019**	**15**

eYantra lab –Firebird V Course	10/08/2019	21
Student Induction Phase –I	26/08/2019	168
Student Induction Phase –II	03/01/2020	168
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Computer Engineering	111
BE	Civil Engineering	48
BE	Information Technology	17
BE	Electronics & Telecommunication Engineering	8
BE	Electronics Engineering	2
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained
Institute holds online and offline feedback from all its stakeholders regularly at departmental level. All feedbacks are graded on the scale of 1 to 5 where 1 stands for POOR remark and 5 stands as EXCELLENT remark. The students give semester-wise feedback for all courses taught to them. Following are the parameters of assessment from students about overall academics: Syllabus coverage Satisfaction about teaching methodology Teachers approachability towards students Teachers ability to teach subject and control the class Organization of lectures Use of modern tools of teaching pedagogy The Institute policy is that if a teacher gets an average grade less than 2.5, he/she is called by the Institute authorities such as Head of Department, Campus Director/Principal and is informed about his/her performance in the assigned course. They are accordingly instructed by the authorities to improve their performances and upgrade the teaching methodology. Alumni Feedback is undertaken during the annual Alumni Meet in the Institute. The Feedback from Alumni is drawn on evaluation of subject knowledge of the program, level of meeting expectation, progress of Alumni in career after graduation, impact of training, motivation at Institute, Social Skills, ability to take decisions, ability to manage finances and presentation skills at the workplace. The Employer's feedback highlights evaluation parameters in the form of subject knowledge, attitude, Behavior, Regularity, Punctuality, Maturity, Motivation,

Creativity, Presentation Skills and ability to get along with others. The analysis of this feedback helps the Institute in reviewing the course content and conduct various skill development training not incorporated in the syllabus. It also helps in determining overall employability of students at various levels. Parents feedback is taken during annual parent-teacher interaction sessions. The feedback from the Parents helps the Institute immensely in reorienting the administration procedures, improve the general ambience and the skill development activities, determine suitability of the courses for career growth of the ward etc. Feedback from the teaching community is also taken in order to improve the work atmosphere and betterment of the Institute. The teachers give their feedback based on Infrastructural facilities, Administration processes, Canteen services and Bus facilities and other teaching aids facilities.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BE	Civil Engineering.	120	7	4
BE	Computer Engineering	120	138	121
BE	Electronics and Telecommuni cation Engineering	60	6	3
BE	Electronics Engineering	60	3	1
BE	Information Technology.	60	49	42
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2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	1316	Nill	84	Nill	84

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
84	84	664	26	Nill	3
View File of ICT Tools and resources					

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

Universal College of Engineering adopts a confidential mentoring system wherein the students are asked for their technical/personal problems, suggestions, and necessary actions taken on that basis. The procedure of mentoring starts from the first year of engineering till the end of the program. First year's(FE) students have mentors from the Applied Science and Humanities department. The FE students are furnished with mentoring form, which asks for their basic details and family background. Mentors are assigned to students as per the ratio given by AICTE. Apart from this, details like co-curricular and extra-curricular activities are also maintained. Faculty(mentor) and students(mentee) meet at regular intervals and discuss the problems faced by the students in concern with the academics, personal,extra-curricular or anything related to overall development of the student. All the information is kept strictly confidential with the mentors to encourage the students to be open and fearless. Second, third- and fourth-year students are assigned mentors from the parent department and each department independently takes care of their students. Before the clearance of the faculty profile from the Institute, he/she has to introduce the mentees to the new mentor. The Institution also keeps a track record of the students one year post the completion of BE regarding the student's higher studies and placements. Apart from the mentoring system employed in the Institution, a counseling center has also been set up in the Institution from the Academic year 2018-2019 which is headed by Dr. J. B. Patil.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1316	84	1:16

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
84	73	11	11	4

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Mr. Sridhar Iyer	Assistant Professor	Best Faculty Award of the Year at the CSI TechNext India 2019
2019	Ms. Kanchan Dabre	Assistant Professor	Best Institute of the year at the CSI TechNext India 2019
2019	Mr. Aniket Kore, Ms. Kanchan Dabre	Assistant Professor	"Best Social Impact Project" at the CSI TechNext India 2019
2019	Ms. Hezal Lopez	Assistant Professor	IEEE Regional Exemplary Student Branch Award 2019
2019	Mr. Asir Khan	Assistant Professor	Active Student Chapter Award, IEI Belapur Local Center

2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BE	346024510	5	27/11/2019	19/01/2020
BE	346024510	6	16/12/2019	19/01/2020
BE	346024610	7	26/11/2019	10/01/2020
BE	346024610	8	13/12/2019	16/01/2020
BE	346037210	3	26/11/2019	25/01/2020
BE	346037210	4	17/12/2019	25/01/2020
BE	346037610	7	26/11/2019	01/01/2020
BE	346037610	8	13/12/2019	02/01/2020
BE	346019110	5	29/11/2019	07/02/2020
BE	346019110	6	18/12/2019	07/02/2020
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

The faculty and students alike are made aware of the CIE process. Based on the feedback and conclusions drawn from the previous semester results, continuous improvements in the internal evaluation are introduced. Classroom lectures were reoriented to discuss the possible questions and the proper way of representing and answering the questions. Due to unforeseen Covid 19 circumstances in the current academic year, a shifting paradigm was experienced in the teaching and learning methodology with the need for online education. Adapting quickly to the situation, we started extensively adopting online LMS Systems such as Google Classroom, Google Meet, YouTube Live and then moved on to using various plugins and extensions to make the overall teaching experience smooth. To make lectures interactive, we started making use of online tools such as Prezi, Edpuzzle, Hot Potatoes, and animated explainers. It has now been a part of our teaching and learning methodology and a notion of blended learning has been inculcated in the process which is going to stay for a long time. The evaluation of term work, as prescribed by University of Mumbai, contains assignments, case studies, mini-project, attendance, and performance in the laboratory. For the Internal Assessment Test, papers are set keeping in mind the learning objectives and the understanding of the fundamental concept of the Course. The presentations of the case study, which are beyond the prescribed syllabus, are also conducted and marks are awarded as per the performance. All these evaluations are considered in the students' marksheet.

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

Universal College of Engineering, an institute affiliated with the University of Mumbai(UoM) prepares its academic calendar in adherence to the calendar of UoM. All the Head of the Departments, Event/activity coordinators submit their line of action for Inter-departmental activities. The academic calendar is prepared at the institute level articulating all the above points wherein the first six weeks are allocated to conduct lectures and practicals followed by the first Internal Assessment test. The 2nd Internal assessment test is conducted in the fourteenth week. The fifteenth week is considered the term-end

week. This week, the compilation of term work marks is articulated based on the continuous evaluation process. The academic calendar also has a prescribed slot for the conduction of Oral examination. All the extracurricular activities and events to be held in an Academic year are planned according to the UoM calendar. Due to the pandemic situation this year, all the tests and End semester examinations were conducted in online mode. Our teachers and the examination committee members made sure that no malpractice happens during the online examination by ensuring strict proctoring using webcams and recorded google meet sessions. Tests were conducted using google forms and shared with the students using the google meet chat box only during the examination time along with 15min extra for scanning uploading the answer book. Technical difficulties and limitations were also taken into consideration and extra time was given to genuine cases. Eventually, the online exams were a success.

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

https://universalcollegeofengineering.edu.in/courses-admissions/civil/objective-outcome/

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
346024610	BE	Electronics Engineering	11	11	100
346037610	BE	Electronics and Telecomm unication Technology	34	34	100
346037210	BE	Information Technology	62	62	100
346024510	BE	Computer Engineering	135	135	100
346019110	BE	Civil Engineering	142	142	100
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2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

https://universalcollegeofengineering.edu.in/iqac/student-satisfaction-survey/

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding	Total grant	Amount received

		agency	sanctioned	during the year
Minor Projects	106	Vidya Vikas Education Trust	0.54	0.54
Minor Projects	106	Academic Planning and Development Section, University of Mumbai	0.18	0
Minor Projects	106	Academic Planning and Development Section, University of Mumbai	0.26	0
Minor Projects	106	Academic Planning and Development Section, University of Mumbai	0.1	0
Minor Projects	25	IEEE Women in Engineering Affinity Group for UCoE WIE	0.04	0.04
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3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Guest Lecture on Importance of Soft Skills	Applied Science and Humanities	18/07/2019
Seminar On Supply Chain Management	Applied Science and Humanities	19/08/2019
Seminar On Waste Water Recycle And Reuse	Applied Science and Humanities	16/09/2019
Expert Lecture On Laser and Its Applications	Applied Science and Humanities	26/09/2019
Expert Lecture On Importance Of Differential Equations	Applied Science and Humanities	30/09/2019
Workshop On Use of Mathematics Statistics in Data Science	Applied Science and Humanities	04/10/2019
Expert Lecture On Analysis Of Mathematics Its Application	Applied Science and Humanities	07/10/2019
Workshop on Use of mathematics Statistics in Stock Exchange	Applied Science and Humanities	06/01/2020

Workshop on Manufacturing of LED	Applied Science and Humanities	01/02/2020
Expert Lecture On Use Of Laplace Transform	Applied Science and Humanities	02/11/2019
Expert Lecture On Applications Of Fourier Transform	Applied Science and Humanities	08/11/2019
Workshop on Smart Material and Nanotechnology	Applied Science and Humanities	02/03/2020
Webinar on Bitcoin and Other Cryptrocurrencies	Applied Science and Humanities	28/05/2020
Workshop on Virtual Laboratory	Electronics Engineering	20/06/2019
Workshop on Basic Arduino	Electronics Engineering	16/07/2019
Seminar on Smith Charts	Electronics Engineering	17/07/2019
Seminar on Electronic hardware designing	Electronics Engineering	19/07/2019
Seminar on Filter Design Techniques	Electronics Engineering	19/07/2019
Workshop on SAP (Systems, Applications, and Products in Data Processing)	Electronics Engineering	09/08/2019
Expert Lecture on Impedance Matching using Smith Chart	Electronics Engineering	19/08/2019
Seminar on PCB Designing (Altium software)	Electronics Engineering	19/09/2019
Seminar on Sensor Interface	Electronics Engineering	10/10/2019
Workshop Data Science with Python	Electronics Engineering	19/12/2019
Seminar on Microwave Amplifier Transistor Design	Electronics Engineering	11/02/2020
Workshop on Virtual Laboratory	Electronics and Telecommunication Engineering	20/06/2019
Workshop on Basic Arduino	Electronics and Telecommunication Engineering	16/07/2019
Seminar on Smith Charts	Electronics and Telecommunication Engineering	17/07/2019
Seminar on Electronic hardware designing	Electronics and Telecommunication Engineering	19/07/2019
Seminar on Filter Design	Electronics and	19/07/2019

Techniques	Telecommunication Engineering	
Workshop on SAP (Systems, Applications, and Products in Data Processing)	Electronics and Telecommunication Engineering	09/08/2019
Expert Lecture on Impedance Matching using Smith Chart	Electronics and Telecommunication Engineering	19/08/2019
Seminar on PCB Designing (Altium software)	Electronics and Telecommunication Engineering	19/09/2019
Seminar on Sensor Interface	Electronics and Telecommunication Engineering	10/10/2019
Workshop Data Science with Python	Electronics and Telecommunication Engineering	19/12/2019
Workshop on Micro Patch Antenna	Electronics and Telecommunication Engineering	11/10/2019
Workshop on Micro Patch Antenna	Electronics Engineering	11/10/2019
Webinar on Internet of Things conducted by Department of EXTC in association with IET	Electronics and Telecommunication Engineering	15/05/2020
Webinar on Internet of Things conducted by Department of EXTC in association with IET	Electronics Engineering	15/05/2020
Session on Basic Programming Approach Using Python, Speaker Name– Sushil Kalsekar	Computer Engineering	26/07/2019
Session on Basic Programming Approach Using Python, Speaker Name– Mrudul Addipalli	Computer Engineering	26/07/2019
Seminar on IEEE membership awareness.	Computer Engineering	29/07/2019
Seminar on "Tableau	Computer Engineering	02/08/2019
Seminar on Classroom Beyond the Walls	Computer Engineering	08/08/2019
Webinar on Career Opportunities in Drone Technologies and Robotics.	Computer Engineering	26/08/2019
Seminar on Awareness session on PCOD/PCOS	Computer Engineering	29/08/2019

Workshop on Python	Computer Engineering	30/08/2019
Workshop on Adobe Photoshop	Computer Engineering	18/06/2019
Workshop on Machine Learning	Computer Engineering	11/09/2019
Seminar on Awareness on data science and AI	Computer Engineering	17/09/2019
Faculty developement program on Intellectual Property Rights	Computer Engineering	21/09/2019
Seminar on Hackathons and Competitive Exams	Computer Engineering	24/09/2019
Workshop on Artificial intelligence	Computer Engineering	10/10/2019
ATS in association with Microsoft certifications will be conducting 4 days workshop on Open Source Mobile App Developement	Computer Engineering	21/12/2019
National Level Awareness program in association with MSME	Computer Engineering	24/02/2020
Virtual Training on Amazon Web Services	Computer Engineering	26/03/2020
Seminar on Pavement Design	Civil Engineering	17/07/2019
Seminar on Technical Paper Skill	Civil Engineering	26/07/2019
Seminar on Tackling G.A.T. E/ Tips and Tricks	Civil Engineering	09/08/2019
Workshop on Building Services and Repairs	Civil Engineering	30/08/2019
Workshop on Mix Design by IS 10262	Civil Engineering	30/08/2019
Seminar on System Application Product (SAP)	Civil Engineering	18/10/2019
STTP on Advancement in Concrete Technology	Civil Engineering	16/12/2019
Seminar on Quality Control on site using NDT	Civil Engineering	03/01/2020
Seminar on Self Redevelopment by societies	Civil Engineering	20/01/2020
Seminar on Advancement in Seismic Design	Civil Engineering	06/02/2020
Use of Revit as a BIM Tool	Civil Engineering	03/03/2020
Online Seminar on	Civil Engineering	02/05/2020

Transport System Planning		
Webinar on Future Prospectus of Graduate Engineers Post Covid-19	Civil Engineering	13/06/2020
Expert Lecture on Natural language processing	Information Technology	18/07/2019
Workshop on Artificial Intelligence	Information Technology	26/07/2019
Alumni Lecture on Latex	Information Technology	02/08/2019
Expert Lecture on Infrastructure Security	Information Technology	14/08/2019
Alumni lecture on Career after Engineering	Information Technology	09/09/2019
Expert Lecture on Internet of Everything	Information Technology	17/09/2019
Workshop on Python	Information Technology	20/09/2019
Workshop conducted on Evolabs and Technology on IOT	Information Technology	24/09/2019
STTP on Developing and Managing Infrastructure with Devops	Information Technology	09/12/2019
Session conducted on IT industry and project life cycle	Information Technology	17/02/2020
Session conducted on Resume Writing	Information Technology	06/03/2020
FDP conducted on Artificial Intelligence	Information Technology	22/05/2020

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Active Student Chapter Award,The Institution of Engineers, India (IEI), Student Chapter	Mr.Pranav Tawale, General Secretary, (Association of Civil Engineering Students), Department of Civil Engineering	The Institution of Engineers, India (IEI), Belapur Local Center	28/02/2020	Student
Specrta-2020	Mr. Mirajj Thaker and Mr. Dhruval Suriya (BE, Civil Engineering)	Sardar Patel College of Engineering, Andheri	01/02/2020	Student
Goldbergs Alley-TECHNEX20	Mr. Saurabh Pandey, Mr. Saiyam Masalia, Ms. Isha	IIT VARANASI (BHU)	15/02/2020	Student

	Panchal, Ms.Vrushali Solanki, Ms. Siddhi Dubey (AS H)			
Crypto Challenge –Bsides Ahmedabad	Mr. Shivang Trivedi, Mr. Aks Jain, Mr. Abhishek Patra, Mr. Het Vikram (AS H)	Bsides Ahmedabad	16/11/2019	Student
Hackstomp	Mr. Meet Bhanushali (TE, Information Technology)	ITSA–UCOE	14/02/2020	Student
Lumino 2.0, A National Level Hackathon	Mr. Ganesh Basyal (Electronics Engineering)	S.B.Jain Institute of Technology, Nagpur	11/01/2020	Student
Project Titled E-Learning AR Application in E yantra Idea Competition, Bombay Section (2019–20)	Dr. Jitendra Saturwar Students– Mr. Shaurya Gulati,, Mr. Faizal Shaikh (BE, (Computer Engineering)), Ms. Anushri Shetty (TE, (Computer Engineering))	Indian Institutes of Technology, Bombay Section	12/07/2020	Faculty Student
Project Titled E-Learning AR Application in E yantra Idea Competition, Bombay Section (2019–20) Best ISA Student Member Project Award 2019	Mr. Hardik Parmar (Electronics and Telecommuni cation Engineering)	International Society of Automation (ISA)	06/07/2020	Student
Best Institute of the year at the CSI	Mr. Meghdutta Koregaonkar (Chapter Head,Computer Society of India)(Computer Engineering)	Computer Society of India	28/09/2019	Student
Association for Computing Machinery, Mumbai Hackathon	Mr. Rahul Lanjewar , Mr. Nidhish Mehra (SE, Information Technology),	M. H. Saboo Siddik College of Engineering, Byculla, Mumbai (ACM, Mumbai, Hackathon)	08/03/2020	Student

Mr. Abdul Kabir (FE, Information Technology)					
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3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
426	Mr. Sagar Parmar (Information Technology)	Universal college of Engineering	AB Entertainment	Event Management Company	14/10/2019
426	Mr. Deep Shah (Electronics and Telecommunication Engineering)	Universal college of Engineering	Food fantasie, Vasai	Cake Shop	18/03/2020
426	Pranav Upadyay(Information Technology)	Universal college of Engineering	Static Int Educare	Education and technical solutions	10/01/2020
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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	3

3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
NA	Nill

3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Applied Science and Humanities	2	5.25
International	Civil Engineering	8	6.47
International	Computer Engineering	48	5.2
International	Electronics Engineering	5	4.5
International	Electronics and Telecommunicaion Engineering	8	4.6
International	Information Technology	20	4.5
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3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Information Technology	6
Electronics and Telecommunication Engineering	4
Computer Engineering	3
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3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Application Development using Image Processing	Mr. Ravi Nagar	Sustainable Humanosphere	2020	0	Universal College of Engineering	Nill
Plant Health Detection	Mr.Allan Lopes	International Journal for Scientific Research and Development(IJSRD)	2020	0	Universal College of Engineering	Nill
Paper: Smart Automated Irrigation System with Disease Prediction	Ms. Sanketi Raut	Journal/ Conference : National Conference on (Trends n Herald in Engineering excellence and metamorphosis2020)	2020	0	Universal College of Engineering	Nill
Brain Tumor Prediction by Utilizing Mathematical Approach and Internet of Things	Ms. Sonal Borse	Journal of Emerging Technologies and Innovative Research (JETIR)	2020	0	Universal College of Engineering	Nill

Title of the Paper	Name of Author	Title of journal	Year of publication	Number of citations		Institutional affiliation
A Practical Machine Learning Framework for Cyber Security System	Ms. Ancy Gonsalves	Studies in Indian Place Names (UGC Care Journal)	2020	0	Universal College of Engineering	Nill
Bug Tracking System	Ms. Poonam Thakre	Studies in Indian Place Names (UGC Care Journal)	2020	0	Universal College of Engineering	Nill
Intelligent Traffic Management System for Prioritizing Emergency Vehicles in Smart City	Mr. Sridhar Iyer	Studies in Indian Place Names (UGC Care Journal)	2020	0	Universal College of Engineering	Nill
The Economical Humanoid – Ellie	Mr.Sandeep Dubey	IOSR Journal of Engineering (IOSRJEN)	2020	2	Universal College of Engineering	2
Soil Analysis and Crop Fertility Prediction	Ms. Kaveri Sawant	Journal of Emerging Technologies and Innovative Research (JETIR)	2020	1	Universal College of Engineering	1
An accident prediction model for Divided Highway : Case study in Bhiwandi city	Mr. Masiyuddin Khan	International Journal of Research and Analytical Reviews	2019	0	Universal College of Engineering	Nill

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3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication

From 2D Sketches to Photo-Realistic Images using Generative Adversarial Networks	Dr. Ekta M. Upadhyay	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	2020	2	Nill	Universal College of Engineering
Health Monitoring Wheel Chair cum Bed System	Ms. Kaveri Sawant	International Journal of Innovative Research in Science, Engineering and Technology	2020	1	1	Universal College of Engineering
GPS and GSM based vehicle tracking system with intelligent data analysis	Ms.Mudra Doshi	International Journal for Research in Engineering Application Management (IJREAM)	2020	2	Nill	Universal College of Engineering
The Economical Humanoid – Ellie	Mr.Sandeep Dubey	IOSR Journal of Engineering (IOSRJEN)	2020	1	2	Universal College of Engineering
Predicting Decisions For Indian Court Cases Using Sentiment Analysis	Ms. Silviya D'Monte	International Journal of Research and Analytical Reviews (IJRAR)	2020	3	Nill	Universal College of Engineering
Fake News Detection	Ms. Kanchan Dabre	International Journal of Research and Analytical Reviews (IJRAR)	2020	3	Nill	Universal College of Engineering
Online Grievance Redressal Portal	Ms. Sharvari Patil	Studies in Indian Place Names (UGC	2020	3	Nill	Universal College of Engineerin

		Care Journal)				g
Landmark Recognitio n using Machine Learning	Dr.Dipti Patil	Studies in Indian Place Names (UGC Care Journal)	2020	3	Nill	Universal College of Engineerin g
Intellig ent Traffic Management System for Prioritizi ng Emergency Vehicles in Smart City	Mr. Sridhar Iyer	Studies in Indian Place Names (UGC Care Journal)	2020	3	Nill	Universal College of Engineerin g
Voice Input based Attendance System	Dr. Jitendra Saturwar	Internat ional Journal of Recent Technology and Engine ering (IJRTE)	2020	3	Nill	Universal College of Engineerin g

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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Semi nars/Workshops	8	124	9	337
Presented papers	13	1	Nill	Nill
Resource persons	Nill	Nill	Nill	6

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3.4 – Extension Activities

3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Fit India Campaign	NSS, UCOE	8	40
Self defense for womens Safety by SPEAK CLUB , UCoE	Speak Club	58	13
Book Donation Drive	Rotract Club UCoE	4	468

"Care for You –Awareness Campaign" about Menstrual Hygiene	WDC, UCOE	37	112
Seminar on Polycystic Ovarian Disease.	WDC, UCOE	35	102
Traffic Management by NSS volunteer at various location	NSS, UCOE	Nill	30
Flood Relief Donation(for Kolhapur Sangli region)	NSS, UCOE	4	40
Anti Tabbaco Day	NSS, UCOE	2	22
Visit to Kaman Village to conduct Household Survey and for Plastic free abhiyan	Unnat Bharat Abhiyan (UBA)	1	9
Workshop on Solar Lamp Asseembly Solar Brand Ambassador Association with IIT Bombay	Unnat Bharat Abhiyan (UBA) NSS	19	200
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3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
CEA 2020 : Geo – Genius	2nd Runner Up: Geo – Genius	Indian Institute of Technology (IIT) Madras	3
CEA 2020 : Master – Builder	2nd Runner Up- Master – Builder	Indian Institute of Technology (IIT) Madras	4
CSI TechNext India 2019	"Best Social Impact Project" at the CSI TechNext India 2019	Computer Society of India	2
Project Titled E- Learning AR Application in E yantra Idea Competition, Bombay Section (2019–20)	Won the regional comeptition and selected for National final Competition	Indian Institutes of Technology, Bombay Section	4
SHE- TECHNEX21	1st Runner Up	IIT VARANASI (BHU)	3
Association for	Appreciation and	M. H. Saboo	3

Computing Machinery, Mumbai Hackathon	award of Internship	Siddik College of Engineering, Byculla, Mumbai (ACM, Mumbai, Hackathon)	
Internal Hackthon for Smart India Hackthon 2020	Participation	Ministry of Human Resource Development, India	1
Crypto Challenge –Bsides Ahmedabad	Winner	Besides Ahmedabad IIT, AHMEDABAD	4
Goldbergs Alley– TECHNEX20	1st Runner Up	IIT VARANASI (BHU)	5
Project on Real Time Slope Failure Prediction System	Best Project (First prize in Civil Engineering Projects Category)	The Institution of Engineers, India (IEI), Belapur Local Center	3
No file uploaded.			

3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
Rotract Club UCoE	Rotract Club UCoE	Book Donation Drive	2	468
WDC	WDC, UCOE	Industrial Visit at Studio Ashirwad Food Processing Unit	21	39
WDC	WDC, UCOE	"Care for You –Awareness Campaign" about Menstrual Hygiene	37	112
WDC	WDC, UCOE	Yoga Day Celebration	28	63
NSS	NSS, UCOE	National Unity Day	Nill	34
NSS	NSS, UCOE	Fit India Campaign	8	40
NSS	NSS, UCOE	Swacch Bharat Summer Internship (SBSI) at Sanjay Gandhi National Park	2	37
NSS	NSS, UCOE	Anti Tabbaco Day	2	22
Unnat Bharat Abhiyan (UBA)	Unnat Bharat Abhiyan (UBA), NSS	Visit to Kaman Village in Collaboration	1	26

		with NSS, UCOE		
Unnat Bharat Abhiyan (UBA) NSS	Unnat Bharat Abhiyan (UBA) NSS	Workshop on Solar Lamp Asseembly Solar Brand Ambassador Association with IIT Bombay	19	200
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3.5 – Collaborations

3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Industrial visit at ashirwaad food prcessing unit at Kaman	63 Participant	Vidya Vikas Education Trust	1
Robotics Workshop in Raval College	Mr. Gaurav Shete	Vidya Vikas Education Trust	1
Student Exchange, visit to MTNL Powai	Mr. Sushant Gawade and 8 TE ETRX Students	Vidya Vikas Education Trust	1
Pravin Patil Polytechnics for Robotics workshop	Ms. Kaveri Sawant	Vidya Vikas Education Trust	1
Two days Industrial Visit to Bhandardara Dam.	99 Students (TE and BE Civil Engineering) and 6 Faculties	Vidya Vikas Education Trust	2
Four Days Survey Field Project at Khopoli	132 Students (SE, Civil Engineering and 6 Faculties)	Vidya Vikas Education Trust	8
Two Days Industrial Visit to Lavasa City	86 students (BE Civil Engineering)	Vidya Vikas Education Trust	2
Industrial visit at Micro, small and medium enterprises (MSME) Testing center at Andheri.	35 Participant	Vidya Vikas Education Trust	1
Workshop on Robotics to Students of Poddar jr. college in Ucoe campus	Mr.Sandeep Dubey	Vidya Vikas Education Trust	1
Industrial visit to MTNL Powai	Mr.Sandeep Dubey and 20 TE EXTC students	Vidya Vikas Education Trust	1
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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Indusrial Interaction	Internship	Aakaar Education	23/11/2019	26/12/2019	4
Indusrial Interaction	Field visit	Industrial visit at ashirwaad food prcessing unit at kaman	07/02/2020	07/02/2020	60
Indusrial Interaction	Field visit	Industrial visit at children camp site film studio at kaman	07/02/2020	07/02/2020	60
Indusrial Interaction	Field visit	Industrial visit at Micro, small and medium enterprises (MSME) Testing center at Andheri.	03/03/2020	03/03/2020	35
Microsoft .NET framework and web application creation	Internship	Yash Technologies	08/06/2019	07/07/2019	8
Industrial Training	Internship	Electrical Training Centre, EMU Carshed, Virar	12/06/2019	26/06/2019	8
Robotics Training	Internship	J Group Robotics	12/06/2019	16/07/2019	8
GEO-TECH REPORT ASSESSMENT	Internship	GEO-TECH REPORT ASSESSMENT- Online Internship Hub	20/04/2020	01/05/2020	10
Indusrial Interaction	Internship	Talent Excel	15/07/2019	15/12/2019	10
Indusrial Interaction	Internship	Project Based	02/12/2019	06/01/2020	51

	Learning UCoE			

3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
The Fire Protection Company, Vasai	17/07/2019	Internship and Training	1
Vistaar Digital, Borivali	17/07/2019	Internship	1
Light Creator	18/09/2019	Internship and Training	1
Krypton Engineering and Consultancy	26/11/2019	Internship	1
Techustaad Pro Learning	27/09/2019	Internship	30
ATS Infotech Pvt. Ltd., New Delhi	13/05/2019	Knowledge Up-gradation	81
EduCADD Learning Solutions Pvt. Ltd., Dombivali East, Mumbai	27/02/2019	Knowledge Up-gradation	6
NewMat India Pvt. Ltd	26/09/2019	Internship and Training	2
Swapnshilp Engineering, Palghar	19/08/2019	Internship and Training	1

CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
1086.63	1082.64

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Classrooms with Wi-Fi OR LAN	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Seminar halls with ICT facilities	Existing

Classrooms with LCD facilities	Existing
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing
Campus Area	Existing

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4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
e-granthalaya	Partially	3.0	2012

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	12853	7645311	1176	913490	14029	8558801
Reference Books	1484	844086	166	170092	1650	1014178
e-Books	2	Nill	Nill	Nill	2	Nill
Journals	20	210232	Nill	Nill	20	210232
e-Journals	8	863127	Nill	Nill	8	863127
Digital Database	10	Nill	Nill	Nill	10	Nill
CD & Video	10	28780	Nill	Nill	10	28780
Library Automation	1	1	Nill	Nill	1	1
Weeding (hard & soft)	Nill	Nill	Nill	Nill	Nill	Nill
Others(specify)	463	270660	13	35300	476	305960

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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Mrs. Vishakha Shelke	AIML Techniques-Resolution of facts using Propositional Logic	Edpuzzle	04/06/2020
Mrs. Vishakha	Distributed	google classroom	03/02/2020

Shelke	Computing		
Mr. John Kenny	C programming	google classroom	30/03/2020
Mrs. Sharvari Patil	Disk Scheduling Algorithms	Edpuzzle	28/03/2020
Mrs. Sharvari Patil	Bankers Algorithm	Edpuzzle	13/04/2020
Mrs.Hezal Lopes	Graphs in R	Edpuzzle	26/05/2020
Mr. Shivam Shukla	Engineering Graphics	You Tube	20/03/2020
Mr. Shivam Shukla	Engineering Mechanics	You Tube	25/05/2020
Mr. Sridhar Iyer	Theory of Computation and Automata Part 1	Udemy Course	01/12/2019
Mr. Sridhar Iyer	Cryptography and System Security	Youtube Channel	27/01/2020
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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/ GBPS)	Others
Existing	574	20	50	1	1	8	26	50	106
Added	0	0	50	0	0	0	0	50	0
Total	574	20	100	1	1	8	26	100	106

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

100 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Youtube Channel	https://www.youtube.com/playlist?list=PLx2aAxxVN1NUBjQgLlQTu5psKzRLDIMIa
Udemy Course	https://www.udemy.com/course/beginner-course-in-system-security-digital-forensics
Udemy Course	https://www.udemy.com/course/theory-of-computation-and-automata-part-1
Udemy Course	https://www.udemy.com/course/create-interactive-e-learning-content
Edpuzzle	

	https://edpuzzle.com/media/5e96e8105978e03e53e9604b
Google Classroom	https://classroom.google.com/u/1/c/NTMwNjgyMTI4NjZa
Google Classroom	https://classroom.google.com/u/0/c/NTM5MjY0MjkwNzRa
You Tube	https://youtu.be/YTcKksYoAhs
You Tube	https://youtu.be/twwsn88mCW0
Edpuzzle	https://edpuzzle.com/media/5edf1d06fa258c3fa7d3a74c
Edpuzzle	https://edpuzzle.com/media/5ece58a1bd6ed73f796fba3b
Edpuzzle	https://edpuzzle.com/media/5ed84f66ee18553f8ff90403
Edpuzzle	https://edpuzzle.com/media/5ed8602182e3873f6faaa753
Edpuzzle	https://edpuzzle.com/media/5ed5dc69ef40e33f56ced1a9
Edpuzzle	https://edpuzzle.com/media/5ed5dc547dfca53f11eac724
Edpuzzle	https://edpuzzle.com/media/5ed7ca3b1016db3f3c93c006
Edpuzzle	https://edpuzzle.com/media/5e95a69db56acb3f5ffaffe9
Edpuzzle	https://edpuzzle.com/media/5e945c7ba5a8bc3f22ca6a0f
Edpuzzle	https://edpuzzle.com/media/5e96ebdf5978e03e53e979f0

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurredon maintenance of physical facilites
21.23	18.87	339.73	337.85

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in

institutional Website, provide link)

> Different committees are constituted to take care of physical and academic support facilities. All washrooms are maintained by dedicated housekeeping staff. The Head of the Department takes input from the faculties regarding the budget required for the laboratories and the proposal is given to the Principal. The head of the sports committee submits requirements for various sports materials which are sent to the head office for approval. The librarian forwards an acquisition form to all the faculties. The faculties fill it up and send it back to the librarian. The librarian sends the books required to the principal who in turn send it to the head office for approval. A physical muster is maintained to record all minor maintenance issues. Maintenance issues include electricity issues, and minor issues related to infrastructure. Whenever there is a major maintenance issue, a mail is sent to head office regarding the issue. Whenever a mail is sent a ticket is generated with respect to the maintenance issue. Ticket is generated using dedicated software called "Zendex".The head office makes sure the issue is resolved. Whenever an issue is resolved the ticket is closed.

https://universalcollegeofengineering.edu.in/about-us/our-campus/procedures-and-policies-for-maintaining-and-utilizing-facilities/

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	CAST OBC/SC/ST/NT /EBC/INSTITUTE	573	33131100
Financial Support from Other Sources			
a) National	NA	Nill	0
b)International	NA	Nill	0
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Remedial Coaching	04/09/2019	248	UCOE
Personal counselling	21/08/2019	126	Swapnil Khanvilkar
Bridge Course/Induction Program	26/08/2019	171	UCOE
Soft Skill Development	06/01/2020	126	FirstNaukri.Com
Language lab	04/09/2019	171	UCOE
Yoga and Meditation	26/08/2019	168	Ambika Yogashram
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
2020	FirstNaukri.com	Nill	126	Nill	126
			View File		

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
3	3	3

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
Bridge Labz	60	22	Geo Profiles Engineering ltd	3	1
			View File		

5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2019	1	BE	Electronics & Telecommunication Engineering	Rutgers University, Newark, New Jersey	MS in Telecommunication and Networking
2019	1	BE	Electronics Engineering	San Francisco State University, California	MS in Engineering Concentration in Embedded Electrical and Computer System
2019	1	BE	Computer Engineering	UNIVERSITY OF YORK	MSC CYBER SECURITY
2019	1	BE	Computer Engineering	New Jersey Institute of Technology	MS in Computer Science
2019	1	BE		Manchester	MSc Data

2019	1	BE	Information Technology	Metropolitan University, Manchester, England	Analytics
2019	1	BE	Information Technology	Rochester Institute of Technology, New York, United States	Computer Science, MS program for the Fall 2020 term
2019	2	BE	Civil Engineering	Fanshawe College (Canada)	Construction Project Management
2019	1	BE	Civil Engineering	IIT Guwahati (India)	Mtech in Environmental Engineering
2019	4	BE	Civil Engineering	NICMAR,Pune (India)	Advanced Construction Management
2019	2	BE	Civil Engineering	Swinburne University of Technology (Australia)	Master of Professional Engineering

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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	3
GRE	5
TOFEL	5
Any Other	15

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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Independence Day	Institute	554
Teachers day	Institute	569
Farewell party	Institute	372
Tantrostav	Institute	321
Jr.Tantrostav	Institute	502
Tahuko	Institute	1214
Intra sports and cultural week	Institute	1189
National level Paper Presentation and Project exhibition	National	1188

VYRO	National	1896
Jr.Vyro	State	1600
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5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2020	Vidya Lankar Institute Of Technology (Winner)	National	1	Nill	3042 1855 1802 1760 1774 2176 2791 2990 2520	chirag Gangani Vineet Joshi Aakash jadhav Pushkar bharmbhe Hardik Shetty Rohit sasane Tushar chavhan Siddhesh niwate Daivik Shetty
2020	MIT Summit Pune (Winner)	National	1	Nill	2916 2405 2511 1310 1877 2983	Rachita Mogavera Rajat Dungarwal Vyom Makwana Shantanu pawar Yash pimple Rahul makhela
2020	Utsav 2020 at LR tiwari college of engineering (Winner) & St.Francis college management and research (Runner up)	National	2	Nill	1456 1885 1780 2228 2654 3105 2451 3082 3404 2853 2801 2952 3102	Puja Gupta Aarti Thakur Priyanka Said Aniwarya Pawar Sneha Sanap Sampada Payer Sanchita Gaonkar Shweta Bhadekar

						Samiksha Nijai Anushka Patil Sakshi Lembhe Janhvi Sureja Suvarna Jadhav
2020	Utsav 2020 at LR tiwari college of engineering (Winner)	National	1	Nill	1456 1885 1780 2228 2654 3105 2451 3082 3404 2853 2801 2952 3102	Puja Gupta Aarti Thakur Priyanka Said Aniwarya Pawar Sneha Sanap Sampada Payer Sanchita Gaonkar Shweta Bhadekar Samiksha Nijai Anushka Patil Sakshi Lembhe Janhvi Sureja Suvarna Jadhav	
2020	52th Youth Festival Organized by the University of Mumbai (2nd Position)	National	Nill	1	1902	Amit Gupta	
2020	52th Youth Festival Organized by the University of Mumbai (2nd Prize)	National	Nill	1	2128	Ayush Sheety	
2020	52th Youth	National	Nill	1	2297	Vaishali Naik	

Festival Organized by the University of Mumbai (Runner up)								

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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Universal College of Engineering(UCoE) has created a platform for the active participation of students in different academic committees and other activities of the Institute to make students gain in various skills like leadership, teamwork, and to inspire them to develop their skills for their professional growth. The Students' Council of UCoE is quite active and is guided by the staff members. They show lots of enthusiasm in conducting activities. In the Institute, the Students' Council also participates in various activities to bring forward the views and suggestions of the students. Most of the students selected are based on their overall academic performance along with extracurricular activities. The Students' Council of UCoE often comes together to raise funds for social activities and takes part in cleanliness drives and Tree Plantation Projects. They also carry projects related to community development social work. The Students' Council members have visited Kaman Village, Vasai and have spread awareness about water storage techniques and water purifying methods with locals since the area is facing scarcity of water along with the NSS team of UCoE. The Students' Council members are continually active during Tantrotsav and National Level Tech-fest like VYRO which are conducted every year. These mega events are conceived, planned, and organised by the Students Council with supervision of Alumni and Faculty members. Students wholeheartedly participate to make this event lively and enthusiastic for all the participants who come from various colleges to participate in it. Besides VYRO, UCoE conducts Jr. VYRO where students from junior colleges enthusiastically participate. Students' Council of UCoE have wholeheartedly represented themselves in various National Level events conducted by the Institute such as IETE National Level Technical Paper Presentation, Project Presentation, workshops,STTPs, Seminars and Intra-collegiate events like Tahuko(Navratri Celebration). Students' Council members are actively involved in spreading awareness about the Anti-Ragging Campaign in the Institute as well as in other colleges. They also contribute to the Rotaract Club of UCoE(Vasai) for Fund raising activities of various social projects.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Universal College of Engineering(UCoE) has registered an alumni association by the name "UCOE ALUMNI ASSOCIATION" having an Indian Bank account: CA-6655926067. The Alumni Association had held its first alumni conference on November 18, 2017, making it an annual activity. For the academic year 2019-20 alumni meet was organized on 28th November 2020 with total attendance of 140 alumni. Annually, 5 sessions were undertaken by our Alumni in which they shared their expertise of their respective field, with the students. UCoE has a strong Alumni network which is spread across many countries from where our alumni help and guide their juniors for higher education and competitive exams. For instance, our Alumni Ninad Kanekar, Ayush Kothari, Riddesh Joshi have guided and helped students of UCoE in the admission processes,visa process and

accomodation in Australia. Experience Sharing: During Alumni meet, the graduated students share the challenges encountered by them in their on-field project works, career development guidance, interview techniques, placement activities, software training, benefits of internship, Industry Academia Interaction and other initiatives which are useful in enriching campus students' knowledge. The experiences shared by the alumni are valuable sources of information for our current students. Through these sessions, our students not only learn about different careers, but also explore various options in greater depth. The alumni community of UCoE has been the most effective medium not just with the graduates but also with the present students in providing opportunities in improving their career and professionalism. The overall technical growth of Campus students is greatly enhanced due to the active participation and contributions from Alumni. The alumni community of UCoE has also provided their valuable guidance in organizing events in the Institute and has also contributed in kind for sports and cultural events.

5.4.2 – No. of enrolled Alumni:

384

5.4.3 – Alumni contribution during the year (in Rupees) :

192000

5.4.4 – Meetings/activities organized by Alumni Association :

Following are the activities are conducted by Alumni Association, 1) Session on Basic programming approach using python-26-7-2019 Alumni speaker- Sushil kalsekar 2) Session on Basic programming approach using python-26-7-2019 Alumni speaker- Mrudul addipalli 3)Seminar on Filter Design Techniques 19-07-2019 Alumni Speaker - Abhijit Pendse 4)Expert Lecture on Impedance Matching using Smith Chart - 19-08-2019 Alumni Speaker- Kavita Nair 5)Expert Lecture on Latex - 02-08-2019 Alumni Speaker- Shivani Ahir 6)Session on Career after Engineering - 09/09/2019 Alumni Speaker- Harshil Shah

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

Initiative in Use of Virtual platforms In the 2020 Pandemic situation, UCoE explored the virtual platform to avoid stalling of academic and administrative work. Universal Education Groups subscribed to Google G-suite was one such action taken in this direction. An instructor from Google, Ms. Sakshi Bishnoi conducted training sessions on "G-suite for education" for UCoE teaching, non-teaching, and admin staff. She illustrated various options available in Google Meet and Google Classroom tools that could be utilized for teaching and administrative purposes. Faculty members of all departments used Google Meet to conduct meetings, organize seminars, workshops, FDP, STTP for both students and faculties. Faculties used Google Classroom to share the course content, conduct practice MCQ tests and share self-recorded lectures ensuring timely completion of the remaining syllabus during pandemic lockdown. UCoE faculty members took initiatives to conduct various training sessions to explore virtual platforms to provide creative content to students and engage them in an interactive way. The Institute associated itself with Coursera, an American online education platform which enabled the teaching, non-teaching faculties and students to enroll themselves for various skill enhancement courses for free. UCoE faculties also used Swayam portal and have undergone training for the various modules of National Initiative for technical teachers training (NITTT). STTP on Python and a one week online faculty development program on Artificial

Intelligence was organized. Webinar on Create Interactive e-Learning Content. To bridge the technical gaps between the traditional chalk and board teaching learning methodology and the new online teaching classroom methodology in the form of e-Learning Dr. Jitendra Saturwar suggested conducting training for staff to design creative e-Learning content in the wake of the ongoing pandemic situation, in the IQAC meeting. Dr. J.B Patil appreciated this idea and asked all heads of departments to coordinate this event. Mr. Sridhar Iyer took initiative to conduct a virtual webinar on Create Interactive e-Learning Content and was supported by all faculties of the Computer Engineering department. This 2-hour webinar was fun filled and completely interactive where the participants learnt the basics of creating effective e-Learning resources. The live virtual webinar saw a huge participation, 1441 to be precise, from various schools and colleges across the globe through YouTube Live Streaming. This event was liked by all because of its inherent content and interactive nature. After such tremendous response to the event, a 3-day detailed Faculty Development Program was also conducted for the teaching faculty, in which they learnt in detail about the nuances of various free tools needed for creating such beautiful resources for their day-to-day teaching activities. The primary curriculum of the 3-day workshop revolved around the various ways by which learning resources in the form of ppts, videos, notes etc. can be transformed into very interactive meaningful and eye-catching animations, interactive video lectures, quizzes, gamified tests, etc. The learning outcome of this event could be easily demonstrated with the quality of learning resources being created by our teaching faculty which we can proudly say is top notch.

6.1.2 – Does the institution have a Management Information System (MIS)?

Partial

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Admission of Students	Admission is done by following the Rules of Admission through Centralized Admission Process (CAP). Online admissions for First Year Engineering(FE) and Direct Second Year(DSE) is strictly done through merit lists. Student's eligibility is checked before granting admission. Institute implements the TFWS (Tuition Fee Waiver Scheme) as per UoM rules. UCoE Admission committee takes care of the admission process. They explain the process of admission to students who are allotted to the Institute in CAP round and help them and their parents to fill the form and submit relevant documents. The Institute has a facility of virtual tours on Institute website using which students seeking admission can view the college. The student visit record is maintained, and their queries are solved by providing interaction with department representatives. All department faculties contribute to the admission process.

Industry Interaction / Collaboration	Every department has Memorandum of Understanding (MoU) and linkages with industries to provide Internship, Training and Placement for eligible students. Companies conduct the expert lectures for students to make them aware of current trends in Industry. Some of them provide paid internships in winter and summer breaks and opportunities to work on live projects for students' final year projects. Value added courses are designed to provide skill enhancement courses in collaboration with companies. ATS Learning Solutions in association with Microsoft Certifications conducted a 4-day workshop on Cross Platform Mobile App Development at UCoE. Establishment of Industry Institute Interaction by Department of Civil Engineering provided the platform for students to bridge the gap between academics and industry needs. The National Level Awareness program in association with MSME and Industrial visit to MSME testing center was organized by the Department of Computer Engineering.
Human Resource Management	Staffing process and Recruitment is carried through a proper and transparent procedure. The Institute has a Standardized Performance Appraisal System for teaching/non-teaching staff. Human Resources Management Head focuses on maximizing employee performance with overall improvement. Faculties of interdisciplinary departments are encouraged to work together which builds cordial relationships among each other. The committee head positions and responsibilities are distributed among all faculties equally. Heads of all Departments are appointed according to qualification and number of years of experience. Institute organizes STTPs, workshops, administrative training for faculty development to update their knowledge. Institute also sponsors the faculties for attending such events outside by conferring On-duty leaves and financial support in some cases. Faculties are encouraged to pursue Ph.D. and the Institute supports them in many ways to help them to complete the degree successfully.
Library, ICT and Physical Infrastructure / Instrumentation	The Institute has a well-equipped library with books from all the

		different genres and disciplines. The library is partially automated with the E-Granthalaya Library Management System, which helps in speeding the transactions and issuance of books. Digital Library utilizes a 100 Mbps bandwidth through which students can carry out their research related work. The Institute widely uses the digital learning platforms such as NPTEL and Swayam to deliver quality study materials designed by highly qualified academicians. Our Institute strives to provide the best infrastructure and facilities in compliance with the prescribed standards of AICTE to make teaching-learning more effective. The Institute has an array of well-equipped classrooms, laboratories, tutorial rooms, drawing hall and seminar hall. LCD Television is placed on every floor to display the notices, Student achievements and information related to academics.
	Research and Development	The Institute motivates all faculty members to involve themselves in Research and Development activities in their own field. The Management encourages undertaking projects, if found feasible, and provides financial help to outstanding projects based on its work-ability. Three faculties have granted a total of 54000 INR minor research grant from University of Mumbai. IEEE student chapters have granted 4068 INR from IEEE Women in Engineering Affinity group for conducting 'Unmanned Aerial Vehicle (Quadcopter)' Activity. The Department of Electronics and Telecommunication received 15000 INR from the Institution of Engineering and Technology (IET), Mumbai for Mystery Rooms – The escape Plan (Electra) designed by students. Students have developed projects like UCoE College App and Unibot.
	Examination and Evaluation	Exams are conducted as per the University of Mumbai(UoM) scheme and academic calendar. Two Internal Assessment Tests(IAT) are conducted per semester in a year. The Teaching Faculty contributes to the examination work by setting question papers, invigilating in IAT and End semester exams. Malpractices in Examination are dealt with by the Unfair Means Committee. The Examination Cell

		conducts IAT, End Semester Examinations(ESE), and maintains proper records using VIVA software. All Faculty members of the Institute are approved examiners/moderators for assessment of both online and offline answer-books. The Exam Controller prescribes a format for model paper solution based on which evaluation of IAT and End Semester is carried out. Every department's Understudy Supervisor verifies the IAT -Average, Term work, oral, practical, project mark sheet in the exam section. As per University of Mumbai guidelines, an online exam for final year students was conducted and evaluated.Also the IAT-II, final year ESE was conducted online for all students, under the protocols set by UoM, due to the pandemic situation that arose in March 2020.
	Teaching and Learning	Teaching faculties prepare the course plan for lectures and the Lab manual for the practical in detail including reference book, NPTEL video links along with the CO and PO mapping for every topic in accordance with academic calendar and Mumbai University prescribed syllabus. Teaching faculties use various ICT tools to enhance the Teaching-Learning process. Google Classroom is used to streamline the process of sharing files between teachers and students. You-Tube videos, self-recorded lectures, short films, PPT are played in the classroom through extensive usage of A/V, multimedia creating an impact of lessons taught. The Access to Digital/Non-digital library is provided to all.
	Curriculum Development	Faculty members of the Institute follow an effective implementation of the curriculum and efficacious content delivery through a proper planning, evaluation and analyzing process. They actively participate in the syllabus revision meetings organized at the University of Mumbai. A feedback analysis taken through constructive inputs from the various stakeholders help to enrich the curriculum and content delivery. The student's association and professional student chapter arranges certification courses, guest lectures and hands-on sessions to cover content beyond syllabus. Institute's Internship programs provide

| | an opportunity to interact with industry personnel and learn corporate ethics required for adapting to the industrial environment. Organization of Value-added courses, Bridge course, Expert lectures, Workshops, Industrial Visits etc.along with association to massive online learning portals like Coursera and Swayam ensure the enhancing the learning process. |

6.2.2 – Implementation of e-governance in areas of operations:

E-governace area	Details
Planning and Development	Festival management software is used for technical event VYRO and Junior VYRO, IETE paper presentation and poster presentation since 2014-15. It has the functionality that facilitates online registration for an event, payment gateway to pay registration charges, view the list of events, and number of participation through the user panel. The admin panel allows the organizers to issue printable passes for the students which can be used by participants as entry passes. The event organizers can check the dashboard and see the statistics of any event. The database stores all records of the event. Conference manager software was used for IEEE "International Conference on Smart City Emerging Technology" (ICSCET-2018). It has the admin, reviewer, and author login. Each panel has its own functionalities according to the roles. Admin can check the dashboard and view status of paper, check author details and get statistics of the number of paper submissions. Management Information System (MIS) attendance module that was developed by the team of teaching faculties of the Department of Computer Engineering has been used since July 2019 for attendance record maintenance. The MIS system is at its budding stages and is being upgraded incrementally each semester. It's various modules so far are Faculty Registration, Student Registration, Subject allocation, Elective subject allocation, Unique PID Generation, Practical Batch Allocation, Division allocation of students, all courses' Theory Practical Attendance, and overall Attendance Report generation. It can generate defaulter lists weekly or monthly as per the user (faculty) requirement. Google meet (G

	Suite) During the COVID-19 pandemic, UCoE purchased the G-Suite subscription for conducting virtual meetings and online lectures. Google meet app is used to implement video communication services.
Administration	The administrative activities involve maintenance of infrastructure, ground area, farm area, bio compost plants, security of campus and provide support for Institute co-curricular and extracurricular activities. Biometric attendance is used to maintain staff attendance. Surveillance room is maintained, and CCTV cameras are installed in the Institute for vigilance . For technical support ICTC helpdesk uses the Zendex ticket generation Software to register and resolve technical issues and problems mailed to them. Administration has implemented an SMS system for broadcasting information to faculties, parents and students. Initiatives have been taken in installing LCD TV on every floor to display notice, upcoming event news, achievements, exam seating arrangements to students.
Finance and Accounts	Functions of the finance and accounts are strictly followed with proper accounting practices making a record of each financial transaction. Student fee records are maintained by APPLANE software. All the expenses, staff payroll management, income tax management is done by Tally accounting software. This software also helps in keeping records of receipt of funds, projects, donations, student fee, staff salary and all types of purchases and payments of various utility bills and taxes.
Student Admission and Support	APPLANE software has been implemented since 2012-13 to ease the tasks of Students admission process. APPLANE has student, staff, PTA management modules. Student admission process is completely done by student management module of APPLANE. Student profile is maintained with all details. Student fee entry is done after admission and receipt is generated. Bus fee entry can be done using the Optional fee module. Waiver management maintains student records for TFWS, Free ship and Management waiver scheme. Students are given options of paying their fees by DD,

		Cheque, Credit card, or Debit card. Student promotion module used to promote students next year after verification of admission form from the exam section.
	Examination	Viva: The Examination Cell started use of this software from A.Y. 2013–14 for maintaining examination details of the students. The software is used to maintain all exam records, SGPA, CGPA result preparation according to rules and regulations prescribed by University of Mumbai. The software support following functionalities: Define subjects and their credits. Define Exam. Import students from Excel. Give eligibility and allocate the branch. Assign exams to all students. Assign Seat No to all students. Generate Hall Tickets. Entry of (Subject Wise) marks. Entry of overall Marks (Giving grace marks, applying resolutions etc.) Generate Gazette. Generate marksheet. Generate Report. Define subjects and their credits. Define Exam. Import students from Excel. Give eligibility and allocate the branch. Assign exams to all students. Assign Seat No to all students. Generate Hall Tickets. Entry of (Subject Wise) marks. Entry of overall Marks (Giving grace marks, applying resolutions etc.) Generate Gazette. Generate Result. Generate Report.

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Mrs. Mudra Doshi	3 Days Workshop on National Assessment and Accreditation Council (NAAC) Self Study Report (SSR) Preparation at L. S. Raheja	L.S.Raheja College of arts and commerce	8000
2019	Mr. Yogita Mane, Mr. Allan Lopes, Mrs.	STTP on Developing and Managinf	Indian Society for Technical	5000

		Rovina Dbritto, Mr. Jigar Chauhan, Ms. Mudra Doshi, Ms. Sanketi Raut, Mrs. Aditi Malkar, Mrs. Jesleena Gonsalves, Mrs. Hezal Lopes, Mr. Ravi Nagar, Mrs. Yogini Bazaz	Infrastructure with DevOps (Faculty Count11)	Education	
2019	Mrs. Kaveri Sawant	International Society of Automation (ISA) – Students Chapter Membership	International Society of Automation (ISA)	4500
2019	Mrs. Aditi Malkar	Faculty development program on Android Programming	Fr. Conceicao Rodrigues College of Engineering, Bandra	800
2020	Mrs. Yogita Mane	Title of the Paper: Detection and Deactivation of Application layer based DDoS attack Name of the Joural: Springer Book Series Lecture notes in Networking and System	4th International Conference on Inventive Communication and Computational Technologies (ICICCT– May–2020)	4750
2020	Mrs. Kanchan Dabre	STTP on Natural Language Processing	St.Francis Institute of Technology	2000
2020	Mr. John Kenny	Title of the Paper: Usage of Augmented Reality in Infrastructure development–	4th International Conference on Computing Methodologies and Communication (ICCMC 2020), Surya Engineering	2000
2020	Mrs. Mudra Doshi, Ms. Mitali Poojari	4 day webinar on Assessment Accreditation:	IQAC , Cluster india	1920

2020		A revised accreditation framework for affiliated colleges.		
2020	Mrs. Mudra Doshi, Ms. Mitali Poojari	5 days webinar on Revised NAAC Assessment Accreditation:Challenges and Path to Move Ahead	IQAC , Cluster india	1920
2020	Mrs. Mudra Doshi, Ms. Mitali Poojari	3 day webinar on Understanding Tackling few Unattended areas of NAAC assessment	IQAC , Cluster india	1920

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6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2020	Expert lecture on transportation planning	Expert lecture on transportation planning	02/05/2020	02/05/2020	14	3
2020	An Initiative of IET,Workshop on IOT organized by EXTC department of UCoE	NA	11/05/2020	12/05/2020	13	Nill
2020	One week Online Faculty development program on Artificial Intelligence in collaboration with National Youth	NA	22/05/2020	26/05/2020	35	Nill

	Council of India and Brainovision Solutions India Pvt. Ltd organized by Department of Information techn ology, UCoE				
2020	Webinar on Bitcoin And Other Cryptocurr encies"	Webinar on Bitcoin And Other Cryptocurr encies"	28/05/2020	28/05/2020	45	10
2019	STTP on Developing and Managing IT Infrast ructure with Devops	NA	09/12/2019	13/12/2019	14	Nill
2019	STTP on Advancemen t in concrete technology	NA	16/12/2019	20/12/2019	15	Nill
2019	Seminar on "Unders tanding Self and Harmony in Family"	Seminar on "Unders tanding Self and Harmony in Family"	04/07/2019	04/07/2019	63	23
2019	Subject Orientatio n on Software Testing Quality Assurance	Subject Orientatio n on Software Testing Quality Assurance	06/07/2019	06/07/2019	14	2
2019	Session on Mock Practice for OSM	NA	18/02/2020	18/02/2020	31	Nill
2020	Syllabus Revision meeting on "Analysis of Algorithm	NA	27/02/2020	27/02/2020	4	Nill

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
3 Days Workshop on National Assessment and Accreditation Council (NAAC) Self Study Report (SSR) Preparation at L. S. Raheja	1	19/09/2019	21/09/2019	3
NITTR FDP on Internet of Things	1	10/04/2020	14/04/2020	5
FDP on NAAC Awareness program	1	08/05/2020	14/05/2020	7
QIP short term course on FEM Simulation in Metal Forming: Formulation and Practical implication	1	09/12/2019	13/12/2019	5
Assessemnt Accreditation:A revised accreditation framework for affiliated colleges	2	09/04/2020	12/04/2020	4
syllabus revision meeting at Kalsekar campus	1	14/02/2020	14/02/2020	1
webinar on NAAC: data organization and presentation	1	16/05/2020	16/05/2020	1
FDP on Drupal organised by AISSMS in association with IIT Bombay	1	20/04/2020	27/04/2020	8

Spoken-Tutorial				
AICTE sponsored workshop on Perspectives of Data Analytics with Advances in Software Engineering	1	24/02/2020	29/02/2020	6
Subject Orientation programme on Distributed Computing at Vivekananda college, Chembur.	1	15/01/2020	15/01/2020	1

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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
84	84	27	27

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
1) Work from home facility during the COVID-19 pandemic from March 2020. 2)Sponsorship: Faculties are sponsored for conferences and workshops: Faculties publishing papers in various conferences are provided with sponsorship along with an 'On Duty' leave 3) Campus Security: Campus has security guards at the entrance as well as on every floor. CCTV cameras are also provided on each floor and classrooms to ensure safety of faculties students especially who stay in campus post college timing for event preparations, 24hrs-event like Hackstomp IIT mock competition 4) Fire Safety Compliant college campus 5) Pick and Drop Facility: UCoE has bus	1)Work from home facility during the COVID-19 pandemic from March 2020. 2)Campus Security: Campus has security guards at the entrance as well as on every floor. CCTV cameras are also provided on each floor and classrooms to ensure safety of faculties students especially who stay in campus post college timing for event preparations, 24hrs-event like Hackstomp IIT mock competition 3) Fire Safety Compliant college campus 4) Pick and Drop Facility: UCoE has bus facilities from various prominent locations like Vasai, Borivali, Thane and Bhayander. The bus facility for staff is free of cost. 5) Provident fund facility is provided to Non-	1) Online classes during the COVID-19 pandemic 2) UCoE implements Government Scholarship and fee waiver scheme to eligible students. 3) Payment of fees in installments to economically weak students is allowed. 4) Pick and Drop Facility: The Institute has bus facilities from various prominent locations like Vasai, Borivali, Thane, and Bhayander. 5) UCoE provides financial support for students to participate in co curricular and extracurricular activities. 5) Financial support provided to students to carry out research projects under student welfare scheme 7) Internship is provided to students by every department 8) Pre

facilities from various prominent locations like Vasai, Borivali, Thane, and Bhayander. The bus facility for staff is free of cost. 6) Provident fund facility is provided to teaching staff 7) Institute Laptops were issued to teaching non-teaching faculties from ICTC, for them to Work from home due to the Pandemic. 9) Sick room is available to take rest in case staff is not feeling well 10) Concession in fees is given to the wards of the faculty members studying in sister Institutes 11) Provision for maternity leave is available for female staff as per rules. 12) RO drinking water facility 13) Sponsorship for teaching faculty to take admission for Part Time External Category (PEC) for Ph.D. Admission	Teaching staff 6) Institute Laptops were issued to teaching non-teaching faculties from ICTC, for them to Work from home due to the Pandemic. 7) Sick room is available to take rest in case staff not feeling well 9) Provision for maternity leave is available for female staff as per rules. 10) R O Drinking Water facility 11) College Uniform to Security and Housekeeping Staff.	Placement training is given by Training and Placement Cell 9) Entrepreneurship opportunities available in UCoE E-cell 10) State of-the-art Separate Common Room for boys and girls. 11) A Dedicated Locker is provided to every student to store their personal belongings. 12) Sports room Playground is available within Campus 13) Fire Safety Compliant college campus 14) Campus Security: Campus has security guards at the entrance as well as on every floor. They take care of the Laboratories and classrooms. CCTV cameras are also provided on each floor and classrooms. 15) First aid Medical kit and Rest room is available in Campus 16) R O Drinking Water facility

6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

The accounts section of the Institute maintains finances and accounts. It is strictly followed with proper accounting practices making records of each financial transaction using Tally accounting software. Management appoints third party duly certified Chartered Accountant for financial audit. Scholarships and freeships granted to students belonging to reserved category are audited by the government regularly. The regular audit is done for all departments . Institute's qualified accountant handles and maintains all financial records as per the required norms. Internal audit is conducted by the Account section thereby finalized by Chartered Accountant.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Vidya Vikas Education Trust/University of Mumbai Minor Research Grant Project- 2019-20/ Industries/ Student Chapter	992528	Technical/Cultural Activity, Academic Activities
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6.4.3 – Total corpus fund generated

6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	Dr. Jayshankaran Natesan	Yes	Head of Department
Administrative	Yes	Dr. Jayshankaran Natesan	Yes	Head of Department

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

In the Parent–Teacher Interaction Meeting held on 03rdAugust 2019, parents had suggested the career skills program and Future education-oriented guidance for their wards. The Institution considered this suggestion and signed a Memorandum of Understanding (MOU) with Ischool connect, Malad for Providing Career and Future Education oriented Guidance to Students and with Techustaads Pro Learning, Vasai to provide Career Skills Program, Sharing Experts for Mentoring Students and provide Internships to them. Another suggestion was to provide certification courses to enhance technical skills of students. The institution organized the 4-day workshop on Cross Platform Mobile App Development by ATS learning solutions in association with Microsoft certifications at UCoE. One more suggestion was to bridge the gap between industry needs and academics. Hence,the Institute collaborated with Coursera to provide the free online certification course platform to students.

6.5.3 – Development programmes for support staff (at least three)

Seminar on "Understanding Self and Harmony in Family" was conducted on 04th July 2019. IT department lab assistants attended the Subject Orientation on Software Testing Quality Assurance on 06th July 2019. Anti-Tobacco Day in association with NSS was celebrated in UCoE on 11th July 2019. Awareness Session on Tribute to Indian Soldiers by Speak Club UCOE was conducted on 15th August 2019. Session on Polycystic ovary syndrome disease (PCOD) in association with Women Development Cell and IEEE– Women in Engineering, UCoE was organized on 31st August 2019. Mock Fire Drill in association with NSS was conducted for security and housekeeping staff on 13th September 2019. Workshop on Python was organized for Computer, IT lab assistants on 1st February 2020. International Womens Day was celebrated on 9th March 2020. Self-defense for womens Safety by Speak Club, UCoE was conducted on 9th March 2020. Webinar on Blooms taxonomy" was attended by admin and non-teaching staff on 19th March 2020. Training on "G-suite for Education" was organized on 15th April 2020. Expert lecture on transportation planning was attended by Civil Department Lab assistants on 2nd May 2020. All department lab assistants avail the Coursera association for UCOE Campus and completed skill enhancement courses during pandemic. Webinar on Use of Excel Skills in Research organized on 12thMay 2020 attended by admin, and non-teaching staff of UCoE. Webinar on Stress free Parenting in Lockdown was organized on 22nd May 2020 in association with Women Development Cell and IEEE–Women in Engineering, UCoE. Webinar on Create Interactive e-Learning Content was organized by the Department of Computer engineering on 01st June 2020. Webinar on International Yoga Day-2020 was organized on 22nd June 2020 in association with Women Development Cell, UCoE.

6.5.4 – Post Accreditation initiative(s) (mention at least three)

Project based learning has been implemented to provide project development platforms to students and understand the real-world problem solutions. Research Proposal for Minor research grant submitted by Faculties has received financial assistance from University of Mumbai. Establishment of Industry Institute Interaction by the Department of Civil Engineering provided the platform for students to bridge the gap between academic knowledge and industry requirements. National Level Awareness program in association with MSME and Industrial visit to MSME testing center was conducted to increase the industry interaction. Conducted various Social activities and Outreach programs to inculcate human values to students. Established Rotaract Club to increase the social awareness among students and conduct the social welfare activities. Associated with Coursera association to provide the free online certification course to students. Recruited Professors and Associate professors in UCoE. Encouraged students for future education and career skills programs by signing MOUs with new companies. Faculties contributed for syllabus revision as members in Board of Study for syllabus revision in University of Mumbai. Conducted subject orientation of STQA and Syllabus revision of AoA in UCoE. Training conducted for staff to create interactive e-Learning content and bridge the technical gaps between the traditional chalk and board teaching learning methodology and e-teaching-Learning methodology adopted in the wake of the ongoing pandemic.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	No
d)NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Subject Orientation on Software Testing Quality Assurance	06/07/2019	06/07/2019	06/07/2019	16
2019	Awareness Session on Tribute to Indian Soldiers by SPEAK Club UCOE	15/08/2019	15/08/2019	15/08/2020	554
2019	NSS Orientation Program in UCoE	08/08/2019	08/08/2019	08/08/2019	57
2019	Faculty Development Program on Intellectual Property Rights	21/09/2019	21/09/2019	21/09/2019	70

2019	Ayudha Pooja	07/10/2019	07/10/2019	07/10/2019	328
2019	Workshop on Solar Lamp Asseembly Solar Brand Ambassador Association with IIT Bombay under Unnat Bharat Abhiyan(UBA)	02/10/2019	02/10/2019	02/10/2019	207
2020	Coursera association for UCOE Campus	03/04/2020	03/04/2020	15/06/2020	1782
2020	One week Online Faculty development program on Artificial Intelligence in collaboration with National Youth Council of India and Brainovision Solutions India Pvt. Ltd organized by Department of Information technology, UCoE	22/05/2020	22/05/2020	26/05/2020	744
2020	Webinar on Create Interactive e-Learning Content organized by Department of computer engineering	01/06/2020	01/06/2020	01/06/2020	1441
2020	Syllabus Revision meeting on "Analysis of Algorithm "	27/02/2020	27/01/2020	27/02/2020	21
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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Seminar on PCOD/PCOS by Dr.Mukesh Patil-WDC	29/08/2019	29/08/2019	136	1
Mock Fire Drill Session	13/09/2019	13/09/2019	22	28
National Unity Day Celebration	31/10/2019	31/10/2019	11	23
Informative Session for Rural School Girls at Village Nagle in association with WDC and NSS , UCoE	07/12/2019	07/12/2019	61	7
Industrial Visit at Film Studio & Ashirwad Food Processing Unit	07/02/2020	07/02/2020	33	27
International Women's Day Celebration	09/03/2020	09/03/2020	70	1
Self defense for women's Safety by SPEAK CLUB , UCoE	09/03/2020	09/03/2020	70	1
Webinar on Stress Free Parenting	22/05/2020	22/05/2020	69	23
Online Yoga Day Celebration	22/06/2020	22/06/2020	37	54
Cookery Contest for Faculty members	17/01/2020	17/01/2020	12	6
NSS Residential Camp	03/12/2019	09/12/2019	10	20
A Seminar on "Nutritional Habits and Women's Health"	29/08/2019	29/08/2019	65	103

by Dr. Bina Aputikar				
Fit India Campaign in association with NSS	29/08/2019	29/08/2019	21	27
"Care for You – Awareness Campaign" about Menstrual Hygiene	30/09/2019	30/09/2019	149	Nill
Visit to Pachavi Pada Village to conduct House- hold Survey Under– UBA	05/11/2019	05/11/2019	2	7
Visit to Devkundi Village to conduct Household Survey and for plastic free abhiyan–UBA	29/11/2019	29/11/2019	2	3
Visit to Belkadi Village to conduct Household Survey–UBA	29/11/2019	29/11/2019	2	10
Visit to Kaman Village to conduct Household Survey and for Plastic free abhiyan –UBA	02/12/2019	02/12/2019	7	20
Visit to Belkadi Village to conduct Household Survey under UBA	03/12/2019	03/12/2019	2	7

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
0

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	Nill
Provision for lift	Yes	Nill

Ramp/Rails	Yes	Nill
Braille Software/facilities	No	Nill
Rest Rooms	Yes	Nill
Scribes for examination	Yes	1
Special skill development for differently abled students	Yes	Nill
Any other similar facility	Yes	2

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadva ntages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	1	12/09/2019	1	Traffic Managemen t by NSS Unit	Assista nce to Traffic Police in Traffic M anagement during Ganpati Festival	30
2019	1	Nill	02/10/2019	1	Global Student Solar Amb assadors (SSA) Workshop	Utiliza tion of Solar Energy for day today Life	207
2019	1	1	03/12/2019	7	NSS Res idential Camp	Awareness regarding cleanline ss and basic rights of villagers , underst anding their needs, spread of knowledge , Motivat ion towards	30

						Donations etc.	
2019	1	Nill	16/12/2019	5	Advancements in concrete technology (STTP-Civil dept)	Understanding modern technology in concrete industry	79
2020	Nill	1	21/01/2020	10	Book Donation Drive by Rotract Club	To help the students of Shree Gadge Maharaj Ashram School.	472
2019	1	Nill	06/07/2019	1	Subject Orientation on Software Testing Quality Assurance	Spread awareness on Newly introduced subject in Syllabus	16
2020	1	Nill	07/03/2020	1	Junior Tantrotsav	Provide platform for showcasing technical skills	502
2020	1	Nill	27/01/2020	1	Syllabus Revision meeting on "Analysis of Algorithm "	Spread awareness on Newly introduced subject in Syllabus	21
2019	Nill	1	09/08/2019	2	Swachh Bharat Summer Internship – (SGNP) by NSS Unit	Awareness about plastic usage and replacement/reuse of plastic. Also help to native Adivasis by selling Bamboo Rakhis.	37

2019	1	Nill	21/09/2019	1	Faculty Development Program on Intellectual Property Rights	Awareness on property right	70

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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Alumni Association	11/07/2019	Universal College of Engineering have registered an alumni association by the name "UCOE ALUMNI ASSOCIATION". The alumni association had held its first alumni conference in 2017 making it an annual activity. For the academic year 2018–19 alumni meet was organized in March 2019. During Alumni meet, the graduated students share the challenges encountered by them in their project work, career development guidance, interview techniques, placement activity, software training, benefits of internship, industry academia interaction and other initiatives which are useful in enriching their knowledge. The experiences shared by the alumni are valuable sources of information for our current students.
CSI	11/07/2019	Code of Conduct is designed for student members of Computer Society of India (CSI). Committee consists of a Branch Counselor, Faculty representatives from the Computer IT department and Student members. Interviews are conducted for selecting the student head of various posts

			like discipline, logistic, technical, marketing, etc. Meetings are conducted by counselors with all members to plan and conduct weekly workshops, seminars by experts on recent trends and technologies. All the activities are reported to CSI, Mumbai section and same are acknowledged in the Magazines and through awards. Website is maintained by technical members for all activities conducted.
IEEE	09/07/2019		IEEE memberships drive starts from the beginning of January which is valid for one year till December . Students register to the IEEE association by paying fees. All registered students are expected to appear for an interview. Interview schedule, results and notices are displayed on IEEE college notice boards.Students are selected for positions like Branch chairperson, vice chairperson, Secretary, Webmaster, student activity manager and college representative. Meeting is held with the Branch Counselor once a week for conduction of events, planning and coordination. Members can volunteer for conferences conducted by IEEE at national or international level.
ISA	09/07/2019		Code of Conduct is designed for student members of ISA. Institute Student Chapter consists of one Head and Student member. Meetings are conducted by the head with all members to plan the events and the

			request letter is mailed to ISA, Maharashtra State Chapter for the approval. The moment the request is approved from, various speakers are hired for the delivery of sessions. The State Chapter also conducts various webinars /seminars/workshops in the Institute for ISA student members. ISA student members also have access to ISA running webinars and newsletters.
IETE	09/07/2019		Code of Conduct is designed for student members of the Institution of Electronics and Telecommunication Engineers (IETE). IETE Students Forum consists of a Head and Student members. Interviews are being conducted for various posts like discipline, logistics, technical, marketing, etc. Meetings are conducted by counselors with all members to plan and conduct workshops, seminars by experts on recent trends and technologies. All the activities are reported to IETE, Mumbai section and those are acknowledged in the Magazines.
IET	09/07/2019		The code of conduct of Institution of Engineering and Technology (IET) is designed for the students. This committee has a team of heads of the department as committee head, faculty members and student members. Under this committee yearly once the membership drive is conducted for students. For finalizing different activities like paper

			presentation, project competition etc, meetings are conducted by the head of the committee with all committee members once in a month. For newly joined faculty members and student members guidelines are provided. Interviews are conducted for logistics, discipline, technical marketing etc.
IEI	09/07/2019		The code of conduct is designed for student members of the Institution of Engineers, India (IEI). Team consists of one faculty head from the Civil Engineering department, student head and student members. The rules and regulations are designed by considering the guidelines given by IEI head branch. The meetings are conducted depending upon the requirement. Under this, various events and seminars are organized for intra as well as inter college students. Membership drive is conducted once in a year.
CESA	09/07/2019		With the aim of identifying skill gaps with respect to Industry standard, developing and honing these skills for our students, the Computer Engineering Student Association (CESA) was formed in 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 arranges various initiatives like expert lectures, workshops, magazines etc. which has in-turn helped in knowledge and capacity

			building to get hands-on practice. Focused discussions are conducted on different issues related to upcoming entrepreneurs with reference to global examples and challenges in the world economy at large.
ITSA	09/07/2019		The Information Technology Student Association (ITSA) formed in the year 2017-18, welcomes students to explore their interests in the field of Information Technology. The association creates an educational environment for the UCOE community to learn best practices and trends through workshops, guest lectures, and many more. Hack stomp, a 24 hour coding challenge is organized where brightest minds are invited for a collaborative co-creation of innovative solutions to real development challenges. The committee explores the possibility of value addition to students curriculum Vitae by allowing students to be Teaching Assistant.
Teaching Grievance	09/07/2019		Teaching Grievance Cell is formed in the beginning of the academic year consisting of Principal, Campus Director and two senior faculty members. All grievances are well documented and unbiased resolution is carried out. Code of Conduct is designed and practiced for handling grievances. It is based on Compliance with Laws, Regulations, Obligations, Professional Values, Relationships, Professional Integrity, Ethical Conduct, Drug-

			Free,Healthy Workplace and Consequences of Violation. General meetings are conducted twice a semester for planning and review. Emergency meetings are called for handling grievances if any.
NSS	11/07/2019		The program aims to instill the idea of social welfare in students, and to provide service to society without bias. NSS volunteers work to ensure that everyone who is needy gets help to enhance their standard of living and lead a life of dignity. Implementation of the NSS Programme in our Institute is under the supervision and direction of Chairman and Principal of the College. Under NSS, the activities to be done throughout the year are planned at the start of the year and a time table is made to follow the planning. All volunteers have to complete a specified hours of their work under NSS.
Sports and Cultural	11/07/2019		The college has a sports and cultural committee which organizes the annual sports and cultural activities for students. It comprises a group of faculty members from different departments along with student event heads and members. The committee looks after the planning of different events to be taken and prepares a few rules and regulations to be followed during cultural as well as sports activities. Each committee member is assigned with duties to see whether all the

		activities are conducted smoothly without any controversies.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Celebration of Anti-Tobacco Day by NSS Unit	11/07/2019	11/07/2019	22
Awareness Session on Tribute to Indian Soldiers by SPEAK Club	15/08/2019	15/08/2019	554
A series of Awarness sessions on Universal Human Values	26/08/2019	30/08/2019	168
Session on PCOD/PCOS in association with Women Development Cell and IEEE- Women in Engineering, UCoE.	29/08/2019	29/08/2019	137
Faculty Development Program on Intellectual Property Rights by CSI	21/09/2019	21/09/2019	70
Ayudha Pooja -A worship of Machineries, Computers and equipments	07/10/2019	07/10/2019	328
Celebration of National Unity Day by NSS Unit	31/10/2019	31/10/2019	34
Skill Development Course Awareness by National Level Awareness program in association with MSME	24/02/2020	24/02/2020	158
Self-defense for womens Safety- SPEAK Club	09/03/2020	09/03/2020	58
A webinar on Tips to success in MHT-CET for higher secondary Students	22/06/2020	22/06/2020	70

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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. Plastic-free kitchen in the campus : College canteen is made plastic free by

avoiding usage of plastic plates, plastic spoons, plastic tea cups...etc. Wooden spoons, Paper cups and metal plates are practiced and used to make an eco-friendly canteen. Separate dry and wet bins are placed in the canteen to collect garbage. Wet bin garbage is used for creating bio manure. Also the Campus put all efforts to make it a plastic free campus by ensuring that all plastic waste found is disposed immediately and suitably.

2. Rain Water Harvesting: Rain water harvesting plant has been implemented to store rainwater. Collected rainwater is filtered and stored in chambers for further usage. This chamber and the tube well are maintained by yearly clean up drives.

3. Initiative towards paperless office work by using e-services: The Institute is inching towards a paperless office. All the notices and announcements are published in electronic mode floor-wise on LCD screen. Applane Software is used by the Administration Section for students' enrollment, maintaining data and documentation of all activities related to administration of academics. The Examination Cell uses VIVA software in which all the examination details are stored and can easily be retrieved whenever required for applications like hall tickets, form filling and database management etc. Reuse and Recycling of stationery for printing, disposing of shredded papers to paper vendors are some common steps which have been practiced to make the entire campus clean, green and provide an eco-friendly environment in Universal College of Engineering.

4. Environmental awareness amongst students is inculcated through various events and tree plantation programs both within and outside the campus. World Environment day, Anti-Tobacco Day and all National Festivals are celebrated by conducting these drives. This has been a regular practice since 2013. Campaign on eco-friendly bag making was conducted to promote use of eco-friendly environments.

5. A guest Lecture on Waste Management and Issues of Global Sustainability was conducted to spread awareness about the eco-friendly environment. Global Student Solar Ambassadors (SSA) Workshop was conducted to spread Consciousness on solar energy. Awareness on Environment friendliness and cloud based secured document management through Digi-locker awareness Drive was provided to students. Students have made and sold Bamboo Rakhis at Sanjay Gandhi National Park in order to spread awareness about the harm of plastic usage and how to replace and reuse plastic with other eco-friendly materials.

6. Green Audit was carried out (Validity from September 2018-2021), suggestions given are being implemented in the campus. This will result in making the campus completely a green-campus.

7. Green landscaping with trees and plants: Plantations, lawns have been specially developed and are maintained regularly. The campus is well maintained by taking good care of the plants and thus adding grace to its ambience. The trees planted are selected on the basis of their medicinal, aesthetic and traditional importance in the Indian society. Stakeholders of the Institute has termed the greenery in the Campus as "OXYGEN PARLOR".

8. All the academic and inter-collegiate activities in the Campus are performed ensuring that carbon emissions are kept lowest by motivating students and staff to use public transport

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice 1 Title of the practice: Tantrotsav Objective of the practice: To give students exposure to compete and come up with the best creative and innovative ideas. To provide students a platform to expose and implement theoretical knowledge to solve on field technical problems. Encourage the

students to keep themselves updated with the latest art of technology. To help students to cater to the needs and demands of the corporate world and make them independent thinkers and bridge the gap between theoretical and practical needs. To make the students learn things on their own with the guidance of the experts. Context: UCOE emphasizes practical skills in students by taking advantage of campus infrastructure, laboratories and workshops. College always encourages students to get hands-on experience through participating in technical challenges, specially designed for domain specific applications. This activity facilitates college to make the transition from academic to professional environments. It has also helped students to develop their confidence and meet the challenges of life. UCOE has always helped students to be good at communications by introducing special events which will help them to interact confidently and develop a desirable personality for their future. Practice: Student Council of UCoE in support of faculty members organizes an intra-college technical fest for the aspirants assembling from various engineering branches with a very high competitive spirit to participate and with the strong determination to include their achievements and accomplishments to their resumes. Tantrotsav aims to bring together opportunities for students to come forward and showcase their talents and maximise their visions in the practicality of education, which is very important in today's dialect of the engineering community. Students actively participated in all the events and presented their work. The fest executed with a total of 16 events planned and organized at its best of quality. Events for Civil engineering students are correlated to exposure to concrete technology and also to finding effective solutions or ideas for disaster risk management in a series of hypothetical natural calamity situations. Theme of the event under electronic and telecommunication engineering is based on Robotics and Automation in home, industry and agriculture usage. Computer Engineering and Information Technology based events like AIHack (Artificial Intelligence solution for smart systems), coding challenges and Web mania. Winners of these events were appreciated with certificates and awards, also they were encouraged to represent college at intercollegiate events. Evidence of Success: Winners at this event has participated and won competitions at various IITs Winners at Smart India Hackathon Participation in various project exhibition and award function Some Student Designed Mobile Apps have been commercialised and are available on play store e.g. QuickScanner,UCoE App Best Practice 2 Title of the Practice: e-Newsletter Objective of the Practice To connect and nurture all Institute stakeholders by building and providing the kind of valuable, insightful content on a regular basis. To provide updates pertaining to departmental events, workshops, certification, faculty/students achievements, technical trends, products, services, etc To update and encourage the students to keep themselves updated with the latest art of technology in the industry. To provide the students a platform through which they get to learn how to create useful reports, articles, digital content by exploring various possibilities of design, graphics, literature etc. The Context Publishing a regular newsletter is an essential aspect of any communications strategy. UCoE publishes a newsletter regularly through electronic medium for every course. Through the newsletter, the college tries to bring the world news at the doorstep of the students. The Newsletter posted electronically (e-Newsletters) has ease of accessibility among the students which has called for its huge success. This knowledge goes beyond the course, knowledge where the total well being of the students is enriched and kept in the mind. Practice: Every department of UCoE publishes their e-Newsletters monthly since 2018. All the newsletters get uploaded These electronic letter copies are also digitally distributed personally to all staff and students on college websites. These e-newsletters have gained rapid acceptance and popularity over printed correspondence. General attributes of the newsletter include news and upcoming events of the organization, as well as publication of research articles and recent trends in

technology.UCoE have a special feature to update readers about the latest happenings in the college. Thus providing both internal and external news bonanza to students to read and digest. It facilitates translating experience into knowledge by providing the students with testimony, conversations, tips based on ones internship/academic/job experiences and can't miss and can't get anywhere else guidance to the insights students want. Ultimately, a newsletter helps our college stay connected to all stakeholder communities. Evidence of Success: Helped immensely in tracking statistical records and data keeping. Newsletter being appreciated by students,staff and outsiders. Student contribution in writing research articles has increased. Website upload has helped reached to all stakeholder Problems Encountered A separate team of faculty coordinators along with interested students had to be assigned for the smooth documentation, data collection, plagiarism checking, layout design and website upload. Difficulty in consistent data collection. Time consuming in identification of originality, genuinity or source identification needs lots of background work. Best Practice 3 Title of the practice: Preparation for Competitive Learning Objective of the practice: Encourage the students to participate in the technical competitions across India. To help students to cater to the skills and implement them in real life problems. To make the students learn through hands-on sessions and practice. To push the students to innovate ideas by sponsoring their in competition-project work. Showcase the projects to the potential incubator. Encourage Innovations, Patents startups. To provide students a platform to practice their skills required for exploring new technologies. . Context: UCOE has always been proactive in organizing and participating in various technical competitions at the Inter-collegiate and Intra-collegiate level. Keeping the same view in mind, an innovative idea has emerged and is being implemented since the last three years, where students are prepared towards various technical competitions across IITs. Through these targeted events students are given an opportunity to participate in a prototype environment of real Competitions that are to be held across India every year. Students are made to prepare for competitions outside UCoE through specially designed college events like 'Energy Transformania', Tantrotsav and 'HACK-STOMP'. Practice The coding competition of UCoE is Hackstomp'. It is based on the idea of SIH (Smart India Hackathon) organized by the Ministry of Human Resource, Government of India- The challenge is to solve a real life problem. This internal hackathon is a 24hrs non-stop coding competition for engineering students all over Mumbai. This years theme of the event was "Innovation for India". This event helps students in identifying problems, preparing solutions, integrating judges suggestions and participating in intercollegiate coding challenges with more zeal and vigor. The shortlisted teams were encouraged to participate in the Grand Finale of SIH-2020. Another most liked event is based on the concept of Contraption (Energy transfer through a series of mechanisms) named Energy Transformania'. This is a chain reaction between mechanical linkages that form various mechanisms. The energy input given in the first stage completes the final target via several energy conversions throughout the process. UCoE undertook this project from the academic year 2018-19. It was showcased during the annual technical festival- VYRO. A part of this team is then selected for participation in a technical event every year at IIT, Varanasi. Since the last two years this team has been performing and winning in IIT events. A budget was approved by the college for the same idea.. All the events can be considered as the prototypes of mega events that are held at various IITs every year. This enables a mock round for all the interested students and tests their skills. Evidence of Success: Student team selected as national Finals of the e-Yantra Ideas Competition (eYIC 2019-20) at IIT Bombay for Seventh e-Yantra Symposium (eYS 2020) A Energy Transformania sub-team has secured 1 st runner-up rank in Goldberg's Alley at IIT Varanasi during Technex'20 in February 2020. Winners at Smart India Hackathon 2020. Participation and winner in various project exhibition and award function,

Lumino 2.0 A National Level Hackathon-Pune, CodeA-thon-Navi-Mumbai, TechXposure- Input Output Swap-Mumbai, Association for Computing Machinery, Mumbai Hackathon-Navi Mumbai Built students confidence and learning through peers Selection of one UCoE team for the finals of the seventh e-YIC Symposium held at IIT-Bombay. 194 students participated in the HACKSTOMP competition proposing and implementing their ideas to innovate India. Winners at HACKSTOMP competition has participated and won some competitions at various IITs SHE-TECHNEX21-IIT VARANASI (BHU) CEA 2020 : Bon – (IIT-Madras) CEA 2020 : Geo – Genius- (IIT-Madras) CEA 2020 : Modelling- (IIT-Madras) CEA 2020 : Master – Builder- (IIT-Madras) Problems Encountered Special skill development and competitive learning training is needed for interested students. Arranging Industry experts for training and support in required cases. Keeping a balance between academic and extracurricular technical event participation.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link
https://universalcollegeofengineering.edu.in/best-practice/

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

Universal College of Engineering (UCoE) is committed to excellence in academics and utilizing the knowledge gained, in the service of society. UCoE also emphasizes all-round development of students and improves their employability factor. Project Based Learning (PBL): PBL was introduced in the year 2019-2020 with the purpose of inspiring and inculcating skill development in students by implementing subject knowledge with practical implementation. The flow for conducting PBL was selecting problem statements and assigning them to the group of students, assessing student's learning process by the mentor, obtaining authentic solutions with the intention of increasing communication skills and improving practical approach learning problem-solving skills. Students presented their projects in a specially designed PBL exhibition cum competition. Faculty Training: The training on creating interactive E-learning content, Excel in research, Gsuite for education and Blooms Taxonomy was organised to assist faculty in understanding the use of digital content and devices to improve online teaching learning. 'Junior Tantrotsav': 'Junior Tantrotsav' was organized for the first time in UCoE by the Department of Civil Engineering, EXTC, and ETRX in collaboration with Association of Civil Engineering Students (ACES), IETE and IEI with the goal of instilling a competitive spirit in engineering aspirants from various polytechnic colleges possessing strong determination imbibing various achievements and accomplishments. It helped in boosting confidence within the students and exposing them to the challenges expected ahead serving as an excellent preparatory platform. The aim was to bridge the theoretical and practical gaps by exposing students to various concepts of perceptivity related to the future degree course and bringing together opportunities to come forward and showcase their talents and maximize their visibility. 'Unibot' – A Chatbot Mobile Application for College-related FAQs: Mobile technology and chatbots have begun to infiltrate every corner of higher education from admissions to student affairs to career services. The availability of data via this medium is profoundly altering how activities are being performed. With the goal of communicating about all aspects of college life, UCoE deployed a virtual assistant/chatbot and a mobile application, creating a virtual one-stop-shop for queries like getting college information, location and ways to reach college, latest notices and events of UCoE, admission enquiries, facility details, extra-curricular activities, placement information and details about administrative department. Online Bridge Course for Engineering Aspirants: The

goal of the course for engineering aspirants was to bridge the gap between subjects studied at the polytechnic level and engineering, allowing a smooth transition into professional courses. UCoEs Department of Computer Engineering organised a four-week online bridge course on current trends like Natural Language Processing, Cyber Security, and Website Development to fill in the gulf that exists between the shared knowledge of students at the entry-level and the course requirements. The syllabus was framed in such a way that equal emphasis was placed on both Engineering discipline and personality development permitting a smooth changeover to the Engineering course.

Provide the weblink of the institution
https://universalcollegeofengineering.edu.in/institutional-distinctiveness/

8.Future Plans of Actions for Next Academic Year

Following are the plans that we are looking forward to implement: 1.Encourage and conduct e-Learning training/FDP/STTP among faculties to bridge the technical gaps between the traditional chalk and board and online teaching learning methodology due to pandemic situations. 2.Explore online self learning portals increase association with global leaders in IT training like ICT academy, Oracle academy, Coursera, Edx, Edureka, Udemy, Swayam, NITTTR etc. for students' and faculties' skill set building and knowledge enhancement in the pandemic situation. 3. All the co-curricular and extracurricular activities must be planned in virtual mode to boost enthusiasm of students during this tough time 4. Adapt to the technology changes and create new opportunities for students and faculties in the virtual mode so virtual becomes a boom. The same includes adapting Virtual Classrooms Libraries like NDL. 5. Organize webinar -workshop as per the trends, requirements of the industries to bridge gap between academia and industry expectation and also enhance Industry Institute Interactions to create employable and readily absorbable aspirants for the industries. 6. Guiding and Motivating students for the research paper publication in Scopus Indexed Journals and IEEE Conferences. 7. Encourage and mentor students to showcase their innovative ideas related to their domain in various competitions at intercollegiate and national level. Organizing concentric events like Hackstomp, for their training purpose. 8. Unnat Bharat Abhiyan (UBA) team shall visit and survey the villages for areas of improvement and enhance employability for the adopted five villages. 9. Training and placement cell to introduce and explore the possibility of value addition to students Curriculum Vitae effective training programs to enhance the employability skills of students. Also increase the tie up with various companies for the internship and placements. 10. Departments will contribute to curriculum development of the new syllabus by organizing subject orientation and participation in syllabus revision, paper setting. 11. To inculcate the practice of replacing regular term work by value added Practice Tests for all subjects of first year Engineering students. 12. Promote more activities in the field of Green Initiatives, Social Welfare Nationalism through NSS and Rotaract clubs and various student chapters of UCoE. 13. Feedback systems for all sorts of assessments shall be made online for all stakeholders to reduce usage of papers to promote green practices. 14. Online activities related to Guest Lectures, Technical Discussions, Competitions and Workshops etc may be encouraged through Students' Chapters Council, thus providing them opportunities to learn skills of organising and conducting mega events.