



SELF STUDY REPORT

FOR

2nd CYCLE OF ACCREDITATION

KHANDESH COLLEGE EDUCATION SOCIETY'S COLLEGE OF ENGINEERING AND MANAGEMENT

COEM CAMPUS, CSNO 7480/7323, BEHIND DIC OFFICE, N.H 6
425001

www.coem.ac.in

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

February 2022

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Khandesh College Education (KCE) Society's College of Engineering and Management (CoEM) is a distinguished co-educational college situated in Jalgaon (Maharashtra). It is approved by AICTE, New Delhi, recognized by the Directorate of Technical Education (DTE), Maharashtra State and affiliated to Dr. Babasaheb Ambedkar Technological University (DBATU), Lonere for engineering and vocational programs and Kavayitri Bahinabai Chaudhari North Maharashtra University (KBCNMU), Jalgaon for management programs. The institute is under the patronage of KCE Society, the pioneer educational society in North Maharashtra region. It is established in 1944 by Late Dr. G. D. Bandale, a great philanthropist and a popular doctor in Khandesh region. His vision was to provide higher and professional educational opportunities for the thousands of students of Khandesh region who faced problems in pursuing higher education due to paucity of educational resources.

The institute was established on 28.06.2001. Since the inception, it is committed to impart quality technical and professional education and devoted in providing ample knowledge base to face the challenges of dynamic world. The institute is centrally located at Jalgaon city and has quality infrastructure and excellent facilities to provide quality education to the students of engineering and management. The present chairman and visionary leader, Pradnyawant Shri. Nanadkumar Bendale is gifted with a foresightedness straddling local and global values. This unique quality encourages implementation of the latest trends and cutting edge technology in engineering and management education.

At present, Institute offers four undergraduate (UG) engineering programs, namely Computer Engineering, Electrical Engineering, Electronics and Telecommunication Engineering and Mechanical Engineering, four undergraduate vocational education programs, namely Data Science, Software Development, Industrial Tool manufacturing and Industrial Automation. Institute also offers three postgraduate (PG) programs namely; M.Tech in Electrical Engineering (Electrical Power System), Master in Business Administration (MBA) and MBA in Agri Business Management/Entrepreneurship. Total intake capacity of institute is 330 students at UG and 198 students at PG level.

The ultimate aim of the institute is to inculcate moral values and professional ethics among students and to make them responsible citizens. This leads into preparing them to remain successful at both ends, in academic and in professional fields.

Vision

To embrace innovative theories, techniques and technologies to ensure success in changing world.

Mission

Leading students from ground to skies through excellence to articulate their identity.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- Associated with the oldest and most reputed education society of North Maharashtra region
- Located at the heart of Jalgaon city.
- Young dedicated and disciplined faculty members.
- Disciplined and enthusiastic students.
- Well-equipped laboratories and workshop.
- ICT enabled classrooms and seminar halls.
- Well equipped library with the sufficient books, journals, e-journals and latest multi-media computers for digital library.
- Excellent academic results.
- Good environment for all round development of students.
- World class sports complex “Ekalavya Krida Sankul”, hostel facilities for students at Society level.

Institutional Weakness

- Located in industrially undeveloped district/city.
- Average staff though better compared with other private engineering colleges of the region.
- Shortage of faculty at higher position.
- Industry Institution Interaction (III) and Placement needs to be improved.
- Research, testing and consultancy need to be improved.
- Lack of playground and in-house sports facilities in the institute campus.

Institutional Opportunity

- To develop as a model institute and centre of excellence in the region
- To place students in the industries being established in the nearby area.
- Good scope for community services in the economically and socially backward areas
- Enhancing employability of students through Industry Institute Interaction.
- To increase internal revenue through testing and consultancy.

Institutional Challenge

- Develop research culture in the institute.
- Maintaining a steady progress as a self-financing institution without the support from the State/Central Government or any other funding agencies.
- Coping with rapidly changing technology and industrial needs.
- To convert average staff to employable professional graduate
- Competition with engineering colleges in the city and foreign Universities which may arrive in near future.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

CoEM follows the curriculum designed by DBATU, Lonere and KBC NMU, Jalgaon and effectively delivers the curriculum according to the academic schedules provided by the universities. Institute meticulously plans its academic sessions, thus ensuring timely preparation of academic calendars, distribution of the courses among faculty members and preparation of time table. Continuous assessments of students are undertaken through assignments and tests in a time-bound manner. As per curriculum provided by universities, institute provides elective courses as per student's interests. To enrich experiential learning students are encouraged to actively participate in projects/ field works and internship training.

Add-on/ value-added courses are offered in addition to prescribed curriculum to fill curricular gap identified between the curriculum and / or professional requirement. Student-centric learning methods are used by faculty members to impart curriculum in a better way. IIT Bombay Spoken tutorial courses and virtual lab (IIT Bombay) helps students to widen their perspectives of knowledge.

For overall holistic development of students, institute organizes various workshops, seminars, expert lectures, extension activities for the neighbourhood community. In addition to curricular activities; institute organized various awareness programs to handle various issues like professional ethics, human and gender sensitization, environment etc. Institute also have different committees such as anti-ragging committee, sexual harassment committee and internal complaint committee etc to address the problems of students.

To sustain effective teaching-learning practice, structured feedback system is imposed. Every year feedbacks on teaching-learning process, curriculum and physical facilities available in the institute are taken from all the stakeholders. After a thorough analysis, appropriate action is taken for the further improvement.

Teaching-learning and Evaluation

The admission of students to the institute is as per the norms Maharashtra State Government and AICTE. The students are admitted through Centralized Admission Process (CAP) of the State Government. Institute follows reservation policy of the State Government to conduct admission process.

Every department has well qualified faculty members with good retention ratio. Faculty members assess the academic proficiency of students based on their performance in classroom discussions and tests/assignments. Institute has well defined process for identification of slow learners and fast learners. Special needs of slow learners are particularly attended in tutorial sessions/ remedial lectures. Students are provided with question banks, study materials etc. Institute has an effective mentor-mentee scheme for counselling. Students are motivated to participate in co-curricular activities like field trips and industrial visits. These activities improve the experiential learning.

Institute effectively implement mentor-mentee scheme for education and personal counselling of students. Blended teaching-learning methods employ both ICT and traditional classroom practices which makes learning more effective. The COVID-19 pandemic threw up new vistas of online teaching-learning, thus ensuring continuity as well as change in learning experiences. Institute maintains a robust internal assessment mechanism using predefined evaluation rubrics. Assessment-related grievances are addressed by the Department Internal Examination Grievance Cell (IEGC).

Research, Innovations and Extension

Institute always encourages and supports various activities related to research. Institute has adequate infrastructure with computational facilities to promote research and development activities. Two faculty members are recognized as research supervisors by university under their guidance/ supervision five candidates are pursuing Ph.D. Institute has several collaborative works in the form of internship, field-training and research activities through department collaborations with industries and professional bodies. Institute has signed 33 MoUs with nearby industries, institutes and social organizations.

To inculcate research culture among staff and students, institute encourages them to publish papers/articles in national and international conferences/journals (Publications during AY 2020-21 are 26). Institute regularly organizes national conference to provide platform to share and present innovations/ideas in multiple emerging research areas. Similarly, National workshops/events are also conducted through IIT Bombay Spoken Tutorial and Centre for Distance Engineering Education Program (CDEEP) centre. Institute always supports and encourages organizing workshops, seminars, expert lectures and many more similar activities, which help faculty members and students to upgrade their knowledge and skill set. Some of the faculty members are providing consultancy to local industries.

To ensure holistic development of students and faculty members, institute conducts social and extension activities. Institute addresses, sensitize social and environmental issues with organization of events like blood donation camp, tree plantation, awareness rally on current issues, awareness program at rural areas. Institute received national level awards for 'Jal Divas' and many recognitions for extension activities for societal commitment. Institute also committed to disseminate technical knowledge and provide career guidance to students from under-privileged sections of society.

Infrastructure and Learning Resources

The college is spread over 2.52 acres land with the built up Area of 10160 m² with ramp and other facilities for differently abled students. The physical facilities comprise of 17 classrooms (1516 m²), 33 laboratories (2518 m²), 2 seminar halls (267 m²), 6 tutorial rooms (215 m²), 1 drawing hall (155 m²), 1 research lab (66 m²), 1 computer centre (156 m²) and 1 language lab (66 m²) with total instructional area of 5412 m² and cost of equipment and furniture cost is more than 3.70 crores. Total administrative and amenities area are 1487 m² and 1587 m² respectively. A well-equipped digital library with reading room (517 m²) is available. In the library, sufficient number of titles (4394), volumes (22165), National Journals (21), International Journals (21), e-books (530) and e-journals (324) are available.

The sufficient number of computers (404), printers (44), system software (9) and application software (49) are available in addition to Tally 9.1 ERP Silver and Microsoft 365 A3. The students to computer ratio are 2.94:1 and internet bandwidth is 90 MBPS with cyberoam 100ia fire wall and sufficient Wi-Fi access points. NPTEL study material, spoken tutorials certified courses (with the IIT, Bombay), Virtual Labs Nodal Centre facility, Web Online Public Access Catalogue facility etc are available. Centralized girls hostel with mess and Wi-Fi facility is available at society level. This Institute has tied up with the centralized sports centre 'Eklavya Krida Sankul' with national/international standard facilities in addition to in-campus facilities. Canteen, adequate fire fighting facilities, telephone, extensive parking space etc are available.

Student Support and Progression

CoEM is committed to provide every possible support to the students for their professional education and overall development. The institute organizes various lectures to guide students to appear in the examinations like GATE, MPSC, UPSC etc. Every year around 200 students are benefited by competitive examination guidance programs. Career counseling programs are arranged every year to understand the carrier opportunities. To make the students professionally strong various soft skill development activities such as advanced communication skills training, foreign language trainings, personality development programs and interpersonal skills development programs etc are arranged. Students personal counseling is encouraged via local guardian scheme. Through these programs the students are exposed to new skills & possibilities. Their potential for creativity is developed through participation in cultural & technical programs. Every year annual cultural program 'Antrang' and technical event 'Spi-Tech' is organized.

The institute facilitates all the scholarships offered by both the State and Central Government. All the eligible students admitted in reserved category are receiving financial assistance from State Government. Economically backward students are facilitated by EBC scheme.

Timely redressal of grievances are ensured by the committees like Grievance Redressal Committee, Anti-Ragging Committee, and Sexual Harassment Committee by keeping the transparent mechanism. Institute has started the process registration of alumni association in the year 2020-21. Every year CoEM conducts alumni meet to guide present students and to seek information about recent trends in industries.

Governance, Leadership and Management

Mission and vision statement of CoEM reflects a student-centric thrust, emphasizing on holistic development of students. Governance of institute is constantly supporting and guiding the Principal and other authorities in administration, admission, finance, academic, etc. for the overall growth of the Institute.

Institute policy believes involvement of all staff in decision making. To streamline the same, various committees at institute level are formed which look after academic and administrative activities. Institute practices decentralization and participatory management in keeping with its belief in collective leadership and democratic traditions. A particular reflection of this practice may be seen in the extensive delegation of authority to the heads of departments, faculty members and students to manage different institutional activities.

Institutional strategic / perspective plan is prepared and implemented in view of institutional development with students' centric policies. Institute supports teaching and non-teaching staff to enhance professional skills by encouraging them to associate with professional bodies and motivating them to participate in FDPs, seminars, workshops and conferences. Institute has an effective performance appraisal system which is in tune with AICTE recommended 360 degree feedback performance appraisal.

Institute has adequate provisions for academic and administrative budgets. Optimum utilization of the available resources and funds has been taken care for efficient functioning of institute. Budget proposals, payments of bills and vouchers, and supporting documents of the entire financial year are first scrutinized and corrected if required by internal auditor and then by external auditors.

The institution has an active IQAC which consistently strives hard to institutionalize quality assurance strategies and processes at every level of institution's functioning. From devising strategies to improve

teaching-learning process through increased use of ICT, expanding the use of the library, to provide holistic education, IQAC has performed an important role in overall benchmarking process.

Institutional Values and Best Practices

Institute focuses on educating students on various environment related issues. Institute conducts formal green audit in the institute to maintain the greeneries of the campus.

Institute has taken several steps to make the campus eco friendly. For energy conservation, the old power consuming lamps are replaced with latest low wattage lighting system (LED). The importance of frugal usage of power is advised to students and staff.

Our students are taught to avoid doing anything that contaminates and pollutes the environment like ban on Plastic. In summation institute established activities like rain water harvesting, waste management, recycling of biodegradable waste, tree planting, cleaning of water reservoirs etc to contribute to environmental protection. Initiatives like "Swachha Bharat Abhiyan", e-Waste Management, Hazardous waste management helps Institute to keep the Environment Green.

Effectual teaching learning system in physical and virtual mode, environment protection and society oriented approach has been identified and inculcated as institutes best practices and distinctiveness. Two best practices implemented in last two years are namely Community Support Cell and Eco-friendly campus while "Content Within and Beyond Curriculum through Virtual Expertise" exhibits the distinctiveness of the institute.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	KHANDESH COLLEGE EDUCATION SOCIETY'S COLLEGE OF ENGINEERING AND MANAGEMENT
Address	COEM Campus, CSNO 7480/7323, Behind DIC Office, N.H 6
City	Jalgaon
State	Maharashtra
Pin	425001
Website	www.coem.ac.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Sanjay Ratilal Sugandhi	0257-2242026	9850093935	0257-2242027	coeit.inquiry@gmail.com
IQAC / CIQA coordinator	Pradnya Ashish Vikhar	0257-2242052	9881930607	0257-2242025	pradnyav123@gmail.com

Status of the Institution	
Institution Status	Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details

Date of establishment of the college	28-06-2001
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University to which the college is affiliated/ or which governs the college (if it is a constituent college)		
State	University name	Document
Maharashtra	Dr. Babasaheb Ambedkar Technological University	View Document
Maharashtra	North Maharashtra University	View Document

Details of UGC recognition		
Under Section	Date	View Document
2f of UGC		
12B of UGC		

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)				
Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	02-07-2021	12	Extension of Approval letter is attached

Details of autonomy	
Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	Yes
If yes, has the College applied for availing the autonomous status?	No

Recognitions	
Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	No

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	COEM Campus, CSNO 7480/7323, Behind DIC Office, N.H 6	Urban	2.52	10160

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BTech,Electrical	48	Twelve Science or Diploma Engineering or B.Sc.	English	282	217
UG	BTech,Mechanical	48	Twelve Science or Diploma Engineering or B.Sc.	English	282	223
UG	BTech,Computer	48	Twelve Science or Diploma Engineering or B.Sc.	English	294	272
UG	BTech,Extc	48	Twelve Science or Diploma Engineering	English	171	153

			or B.Sc.			
UG	BVoc,B Voc	36	Twelve Science or MCVC or ITI	English	85	10
UG	BVoc,B Voc	38	Twelve Science or MCVC or ITI	English	85	31
UG	BVoc,B Voc	36	Twelve Science or MCVC or ITI	English	85	28
UG	BVoc,B Voc	36	Twelve Science or MCVC or ITI	English	60	11
PG	MBA,Management	24	Graduation	English	276	253
PG	MBA,Management	24	Graduation	English	69	65
PG	Mtech,Electrical	24	Graduation in appropriate branch of Engineering	English	36	18

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	7				14				42			
Recruited	1	0	0	1	0	1	0	1	15	9	0	24
Yet to Recruit	6				13				18			
Sanctioned by the Management/Society or Other Authorized Bodies	0				0				37			
Recruited	0	0	0	0	0	0	0	0	27	10	0	37
Yet to Recruit	0				0				0			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				20
Recruited	0	0	0	0
Yet to Recruit				20
Sanctioned by the Management/Society or Other Authorized Bodies				0
Recruited	0	0	0	0
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				6
Recruited	6	0	0	6
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	1	0	0	0	1	0	1	2	0	5
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	14	7	0	21
UG	0	0	0	0	0	0	0	0	0	0

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	27	10	0	37
UG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties				
Number of Visiting/Guest Faculty engaged with the college?	Male	Female	Others	Total
		0	0	0

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	724	3	0	0	727
	Female	284	1	0	0	285
	Others	0	0	0	0	0
PG	Male	194	0	0	0	194
	Female	143	0	0	0	143
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years

Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	21	20	26	34
	Female	14	13	18	23
	Others	0	0	0	0
ST	Male	3	4	8	16
	Female	5	4	4	5
	Others	0	0	0	0
OBC	Male	284	274	330	364
	Female	236	256	283	256
	Others	0	0	0	0
General	Male	86	137	196	257
	Female	81	92	125	135
	Others	0	0	0	0
Others	Male	40	43	49	56
	Female	18	21	30	42
	Others	0	0	0	0
Total		788	864	1069	1188

Institutional preparedness for NEP

<p>1. Multidisciplinary/interdisciplinary:</p>	<p>CoEM follows the curriculum provided by DBATU, Lonere and KBC NMU, Jalgaon which includes wide range of open electives to be opted from other disciplines. In addition, DBATU, Lonere has the provision of major electives from same discipline and minor electives from other disciplines. Institute has well-equipped laboratories and trained faculty members to conduct the elective courses. In future to seek the autonomy status, the institute may recruit experienced and skilled faculty members as per requirement. The institute established NPTEL local chapter in AY 2018-19 and IIT Bombay Spoken tutorial Free Open Source Software (FOSS) center to provide multidisciplinary exposure to students.</p>
<p>2. Academic bank of credits (ABC):</p>	<p>Presently institute is affiliated with DBATU, Lonere and KBC NMU, Jalgaon therefore does not have direct Academic bank of credit facility. However, NPTEL course credit transfer facility is available in DBATU, Lonere curriculum. CoEM encourages faculty members to prepare the teaching plan, execution of plan, development of lab manuals, questions banks, PPTs etc to enrich teaching-learning process. Few faculty members have written books, books chapter.</p>
<p>3. Skill development:</p>	<p>The institute is affiliated to university and follow its curriculum. In addition, institute provides opportunity to students to register for additional value added courses for skill development. Some of the students of the institute are opting the courses of PMKVY. Various cross cutting issues like ethical values, human rights, and professional ethics are included in the curriculum. These issues are also addresses through various extra-curricular activities organised at institute. Internship training, project development is also the part of curriculum which provides industry exposure to students.</p>
<p>4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):</p>	<p>Indian tradition and culture is promoted through conduction of various extra-curricular activities like celebration of Jayanti's of national leaders, festivals at institute. The medium of instruction is English but still faculty members take enough efforts to explain the things in regional language. Library is also having good collection of regional books. Daily regional news paper is also available in the central library.</p>
<p>5. Focus on Outcome based education (OBE):</p>	<p>For overall development of students CoEM initiated</p>

	<p>procedure to implement Outcome based education (OBE). Program Outcomes (POs), Program Specific Outcomes (PSOs) of all programs are defined and disseminated properly among all stake holders. Course Outcomes (COs) of each course are also framed. Further CO-PO mapping and attainment of COs with POs and PSOs is regularly computed and appropriate action is being taken.</p>
6. Distance education/online education:	<p>To promote online/ distance education CoEM has NPTEL local chapter, IIT Bombay Spoken Tutorial centre, IIT Bombay CDEEP remote centre and Virtual Lab. Student and faculty members are encouraged to upgrade their skills using various online courses provided by them. Also CoEM have good internet bandwidth for delivery for online lecturers using various online platforms.</p>

Extended Profile

1 Program

1.1

Number of courses offered by the Institution across all programs during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
578	510	458	378	341
File Description		Document		
Institutional data prescribed format		View Document		

1.2

Number of programs offered year-wise for last five years

2020-21	2019-20	2018-19	2017-18	2016-17
10	6	6	6	6

2 Students

2.1

Number of students year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
1194	1063	859	791	710
File Description		Document		
Institutional data in prescribed format		View Document		

2.2

Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
797	729	627	613	539

File Description	Document
Institutional data in prescribed format	View Document

2.3

Number of outgoing / final year students year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
400	293	212	192	245

File Description	Document
Institutional data in prescribed format	View Document

3 Teachers

3.1

Number of full time teachers year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
63	71	59	68	65

File Description	Document
Institutional data in prescribed format	View Document

3.2

Number of sanctioned posts year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
60	77	57	57	60

File Description	Document
Institutional data in prescribed format	View Document

4 Institution

4.1

Total number of classrooms and seminar halls

Response: 19

4.2

Total Expenditure excluding salary year-wise during last five years (INR in Lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
79.40	114.00	125.36	76.28	128.01

4.3

Number of Computers

Response: 482

NAAC

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1 The Institution ensures effective curriculum delivery through a well planned and documented process

Response:

1. The institute is affiliated to Dr. Babasaheb Ambedkar Technological University (DBATU), Lonere for all engineering programs and Kavayitri Bahinabai Chaudhari, North Maharashtra University (KBCNMU), Jalgaon for MBA program.

For effective delivery of the curriculum, the following process is developed and deployed.

As per the guidelines received by affiliating universities, Academic Dean develops institutional action plan for effective implementation of the curriculum in consultation with Principal and Head of Departments (HoD) and prepares the academic calendar of the institute. A well-structured academic calendar includes an action plan for conducting curricular, co-curricular and extra-curricular activities, to enrich the curriculum with the due approval of Principal.

Before the commencement of academic schedule, HoDs allocates the courses to the faculty members as per their expertise and choice. Inter-departmental faculties are allocated as per requirement of curriculum.

Class timetables are prepared and circulated among the students before commencement of semester. Personal time table of individual faculty and laboratory time tables are also prepared.

For smooth conduction of day to day academic activities, each faculty prepares a lecture plan, course file and laboratory manual on the basis of pre-defined course outcomes (COs).

Teachers are encouraged to impart the curriculum through student centric learning methods such as lectures, presentations, assignments, peer learning, remedial lecturers, laboratory sessions, workshops, seminars, projects, industrial visits, etc. and modern teaching aids such as use of PPT presentation, videos, Google class rooms in addition to the regular/traditional chalk and talk methods.

Head of Department monitors the academic activities on a regular basis by verifying monthly syllabus coverage report to ensure the execution of effective teaching learning process as per the academic calendar, and suggests the corrective measures for lacuna, if any.

Department academic progress is also reviewed by Academic Dean and Principal time to time. It includes review of teaching plan, execution schedule, follow-up of syllabus coverage, feedback about teaching quality and action taken, organization of value-added courses and guest lectures.

Internal continuous assessment is done based on performance of students at Mid Semester Examination, class tests, tutorials and oral examinations. Curricular gaps are identified and complied by teaching content beyond the syllabus, invited lectures, and workshops as per requirement.

Internal academic audit is conducted twice in the academic year to ensure the effective implementation of the curriculum.

Conduction/ participation of STTP/ FDP are encouraged to get awareness of recent trends and inculcate skills among the students that are needed to make faculty compatible to the corporate world.

File Description	Document
Upload Additional information	View Document
Link for Additional information	View Document

1.1.2 The institution adheres to the academic calendar including for the conduct of CIE

Response:

Academic calendar is provided by the affiliating universities which include date of commencement of the academic session, dates of sessional examinations, duration of the semester, practical exam schedule, end semester examinations etc. The Universities also declares the list of general and optional holidays to affiliated college s. This information is considered as a base for making curriculum delivery plan of the institute. Accordingly, academic calendar is prepared and published on the website and notice board.

The college adheres to the academic calendar for conduction of continuous internal evaluation systems as per the guideline of DBATU, Lonere for all engineering and vocational programs and KBCNMU, Jalgaon for MBA program. Students get prior information on practical examinations and viva-voce and theory examinations. In case of any change in the University schedule, some changes are required to be made in internal evaluation as well. These changes are communicated to the students well in advance and time tables are prepared and implemented accordingly.

Faculty members prepare teaching plans by proper distribution of syllabus according to academic calendar of institution.

Major curricular, co-curricular and extra-curricular activities are specified in academic calendar and executed as per the planning. Schedule of internal continuous evaluation of major projects phase-I and phase-II, seminars, internships is prepared and it is strictly followed by concerned department.

Institute conducts mid semester examination as per the academic calendar of university and conducts class tests as per academic calendar of institute. The University conducts end semester exam in month of October-November for odd semesters and in month of May-June for even semesters. In nutshell, the institute strives hard to adhere the academic calendar published at the begining of semester. The links of documents related to "how the institute adheres the academic calendar published at the begining of semester" are attached in additional information.

File Description	Document
Upload Additional information	View Document
Link for Additional information	View Document

1.1.3 Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the last five years

1. Academic council/BoS of Affiliating university
2. Setting of question papers for UG/PG programs
3. Design and Development of Curriculum for Add on/ certificate/ Diploma Courses
4. Assessment /evaluation process of the affiliating University

Response: A. All of the above

File Description	Document
Institutional data in prescribed format	View Document
Details of participation of teachers in various bodies/activities provided as a response to the metric	View Document
Any additional information	View Document
Link for Additional information	View Document

1.2 Academic Flexibility

1.2.1 Percentage of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

Response: 60

1.2.1.1 Number of Programmes in which CBCS / Elective course system implemented.

Response: 6

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document
Link for Additional information	View Document

1.2.2 Number of Add on /Certificate programs offered during the last five years

Response: 44

1.2.2.1 How many Add on /Certificate programs are offered within the last 5 years.

2020-21	2019-20	2018-19	2017-18	2016-17
14	9	9	10	2

File Description	Document
List of Add on /Certificate programs	View Document
Brochure or any other document relating to Add on /Certificate programs	View Document
Any additional information	View Document
Link for Additional information	View Document

1.2.3 Average percentage of students enrolled in Certificate/ Add-on programs as against the total number of students during the last five years

Response: 18.55

1.2.3.1 Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
475	301	95	54	48

File Description	Document
Details of the students enrolled in Subjects related to certificate/Add-on programs	View Document
Any additional information	View Document

1.3 Curriculum Enrichment

1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics ,Gender, Human Values ,Environment and Sustainability into the Curriculum

Response:

Courses to address Human Values and Professional Ethics:

The curriculum includes various courses to address Professional Ethics and Human Values as shown in the table-

Sr .No	Name of the Program	Name of Courses
1	First Year Engineering (Common to all programs)	<ul style="list-style-type: none"> • Soft Skill- I, • Soft Skill-II • Communication Skills
2	Computer Engineering	<ul style="list-style-type: none"> • Soft Skill-III, Entrepreneurship Development • Basic Human Rights • Soft Skills and Personality Development • Cyber Law • Business Communication
3	Mechanical Engineering	<ul style="list-style-type: none"> • Soft Skill-III Entrepreneurship Development • Basic Human Rights • Soft Skills and Personality Development • Interpersonal Communication Skills and Self Development • Renewable Energy Sources • Intellectual Property Rights
4	EXTC Engineering	<ul style="list-style-type: none"> • Soft Skill-III, Entrepreneurship Development • Basic Human Rights • Soft Skills and Personality Development • Employability and Skill Development
5	Electrical Engineering (UG)	<ul style="list-style-type: none"> • Soft Skill-III • Entrepreneurship Development • Basic Human Rights • Soft Skills and Personality Development • Value Education, Human Rights and Legislative Procedures
6	Electrical Engineering (PG)	<ul style="list-style-type: none"> • Communication Skills
7	MBA	<ul style="list-style-type: none"> • Corporate Communication Skills • Corporate Social Responsibility • Entrepreneurship and Project Management

The institute organizes various programs/ activities, to address Human Values and Professional Ethics, in addition to courses included in curriculum listed above. The details of activities are enclosed in additional information.

Courses to address Environment and Sustainability:

The curriculum includes various courses that address environment, concern for environment, awareness on hazards for environment.

- Energy and Environment Engineering (EEE) (First Year B.Tech)
- Renewable Energy System (First Year M.Tech Electrical Engineering)

In addition to the above courses, to address cross-cutting issues about Environment and Sustainability various activities are regularly organized at COEM, they are-

- Tree Plantation
- Swatchhata Internship Program
- Swatchhata Pakhawada

Gender Sensitization

In the present curricular structure, specific courses to address gender sensitization issues are not included. However, Women Cell continuously offers various programs like competitions, seminars, and discussions, etc on gender sensitization. The various activities organized by Women Cell are listed below-

Sr. No	Activity details
1	Beti Bacchao Beti Padhavo
2	Mahila Aatmasuraksha
3	Beti Bachao Beti Padhao –Week Celebration
4	International Womens day - "Poster Competition on Girl Child"
5	Karate : weapons for protecting girls
6	Women's day Celebration-"YOGA & Importance of Nutrition in Women's Life"
7	Fitness for youngster through yoga ,Diet & Lifestyle
8	Women's Day Celebration - "Managerial Skill Development for Girls "
9	Womens Day Celebration -"Woman Empowerment :Curent scenario "
10	Womens Day celebration - "Poster Compitition" & "Selfie Competition"

The impact of these programs is evident through the good strength (39% of the total strength in the academic year 2020-21) of female students in the institute and the confident portrayed by all students irrespective of the gender.

File Description	Document
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	View Document
Any additional information	View Document

1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years

Response: 2.95

1.3.2.1 Number of courses that include experiential learning through project work/field work/internship year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
19	16	14	10	9

File Description	Document
Programme / Curriculum/ Syllabus of the courses	View Document
MoU's with relevant organizations for these courses, if any Average percentage of courses that include experiential learning through project work/field work/internship	View Document
Any additional information	View Document

1.3.3 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)

Response: 73.95

1.3.3.1 Number of students undertaking project work/field work / internships

Response: 883

File Description	Document
List of programmes and number of students undertaking project work/field work/ /internships	View Document

1.4 Feedback System

1.4.1 Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders 1) Students 2) Teachers 3) Employers 4) Alumni

Response: A. All of the above

File Description	Document
Any additional information (Upload)	View Document
URL for stakeholder feedback report	View Document

1.4.2 Feedback process of the Institution may be classified as follows: Options:

1. Feedback collected, analysed and action taken and feedback available on website
2. Feedback collected, analysed and action has been taken
3. Feedback collected and analysed
4. Feedback collected
5. Feedback not collected

Response: A. Feedback collected, analysed and action taken and feedback available on website

File Description	Document
Upload any additional information	View Document
URL for feedback report	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average Enrolment percentage (Average of last five years)

Response: 72.71

2.1.1.1 Number of students admitted year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
1194	1063	859	791	710

2.1.1.2 Number of sanctioned seats year wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
1471	1321	1216	1116	1176

File Description

Document

Institutional data in prescribed format

[View Document](#)

2.1.2 Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (exclusive of supernumerary seats)

Response: 44.9

2.1.2.1 Number of actual students admitted from the reserved categories year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
364	313	272	260	270

File Description

Document

Average percentage of seats filled against seats reserved

[View Document](#)

Any additional information

[View Document](#)

2.2 Catering to Student Diversity

2.2.1 The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners

Response:

Classification of students

In order to provide a different level of attention, students are classified into advanced and slow learners based on their performance in Internal Sessional Examination (ISE)/Mid-Semester Examination (MSE).

Slow learners:

Remedial classes are conducted for slow learners where individually focused attention is on slow learners. Mentors keenly observe the academic performance to assist the student by resolving their issues, that affect their ability to learn. Animated videos, PPTs, simplified learning materials are provided to students

Advanced Learners:

Advanced learners are encouraged to take active participation in any two or three co-curricular activities. They are encouraged to learn new technologies, develop projects, attend training programs & competitions, participate in National and International Paper Presentations, etc. They are also guided to take up additional courses viz. NPTEL courses.

File Description	Document
Past link for additional Information	View Document

2.2.2 Student- Full time teacher ratio (Data for the latest completed academic year)

Response: 18.95

File Description	Document
Any additional information	View Document

2.3 Teaching- Learning Process

2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

Response:

KCES's CoEM believes that student is focal point of any institute hence we ensure that student-centric

methods are effectively used in regular academic practices as it makes the students more self-confident and self-motivated and learning as interesting and effective. Instead of teacher-centric conventional teaching methods we strongly believe that student-centric learning methods enhance the learning skills of students. During course plan development, Faculty plans for suitable student-centric learning methods for enhancing the learning experiences of the students. While conducting lectures and practical we use learning in group, learning by practice, analogical and experimental approach, project development etc. These techniques have direct impact on improving the understanding level, communication skills, problem-solving skills, listening skills etc. Faculty members take more effort into making the learning activity more interactive by adopting the below-mentioned student-centric methods.

Experiential Learning:

The institution imparts the following experiential learning practices to enhance creativity and cognitive level of the students.

- Laboratory sessions.
- Hardware output is compared with simulation output.
- Internship to expand the knowledge on market trends.
- Add-on Courses on latest technologies.
- Project development.

Participatory Learning:

- Tech Fest/Project Expo/Poster presentations
- Group Discussion, Role Play, Quiz
- Technical Seminar Presentation
- Periodical Industrial Visit to get insight into the internal working atmosphere of industries
- Co-curricular & Extra-Curricular activities/contests to trigger self-confidence of the students

Problem-solving methods:

- Practical Sessions to get Hands-on experience
- Quiz Sessions

The institution is very keen on implementing innovative methods such as Google Classroom to make the learning experience more effective and interesting. To nurture the student-centric practices, the institution has created many advanced centers like C-DEEP and Language Lab. Students are highly motivated to take part in inter-collegiate, state level and national contests, value-added courses, and Add-on programs for their holistic development. The institution takes significant efforts to explore classrooms with ICT tools and e-resources which helps to easily transform conventional teaching process to student-centric process.

File Description	Document
Link for additional information	View Document

2.3.2 Teachers use ICT enabled tools for effective teaching-learning process.

Response:

KCES's CoEM imparts innovation and creativity in regular teaching-learning pedagogical methods. The faculty members deliver curriculum content using innovative and creative tools such as ICT tool with e-resources, NPTEL videos, PPT ,You tube video, online classes (through Google meet, Microsoft team, Zoom) etc in order to cater the attention, interest, curiosity, and passion in their learning activity. Innovative and creative academic practices adopted by the institution are listed below:

Lecture Management System

The faculty members have adopted the lecture management systems such as Google-classroom for sharing their course material and accepting assignment from students. We also use Google docs for collecting feedback and for conduction of MCQ based examinations. LMS is being effectively used to cultivate innovation and creativity in the teaching-learning process as our classrooms are equipped with ICT tools, .

File Description	Document
Upload any additional information	View Document
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	View Document

2.3.3 Ratio of students to mentor for academic and other related issues (Data for the latest completed academic year)

Response: 23.88

2.3.3.1 Number of mentors

Response: 50

File Description	Document
Upload year wise, number of students enrolled and full time teachers on roll.	View Document
mentor/mentee ratio	View Document
Circulars pertaining to assigning mentors to mentees	View Document

2.4 Teacher Profile and Quality

2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years

Response: 105.67

File Description	Document
Year wise full time teachers and sanctioned posts for 5years(Data Template)	View Document
List of the faculty members authenticated by the Head of HEI	View Document

2.4.2 Average percentage of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)

Response: 6.45

2.4.2.1 Number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. year wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
6	6	4	3	2

File Description	Document
List of number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. and number of full time teachers for 5 years (Data Template)	View Document
Any additional information	View Document

2.4.3 Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)

Response: 5.17

2.4.3.1 Total experience of full-time teachers

Response: 326

File Description	Document
List of Teachers including their PAN, designation, dept and experience details(Data Template)	View Document

2.5 Evaluation Process and Reforms

2.5.1 Mechanism of internal assessment is transparent and robust in terms of frequency and mode

Response:

UG and PG programs in Engineering are affiliated to DBATU Lonere and MBA is affiliated to KBC NMU, Jalgaon. We execute the affiliating university curriculum for all programs. The academic processes are scrupulously followed and monitored with academic review. The internal examinations are conducted in form of ISE, Class Test and MSE. Course teachers set the question papers of internal examinations to maintain difficulty level at par with University examination. The student centric approach with proper efforts at right time by faculty members is one of the strengths of KCES,sCoEM Jalgaon.

Internal assesment of Term work, Seminar, Mini Project and Project is a continuous assessment process and it is well defined and documented process, we have prepared rubrics of evaluation in 2019-20 and implemented from 2020-21. Sample rubrics are available on website.

File Description	Document
Any additional information	View Document
Link for additional information	View Document

2.5.2 Mechanism to deal with internal/external examination related grievances is transparent, time-bound and efficient

Response:

The institution takes high concern in addressing the issues related to examinations as it determines the direct outcome in outcome-based education.

The mechanism to resolve internal examination grievances

In general, the issues related to internal exams are resolved by the respective faculty member. When the student is not satisfied with the response from the faculty member, he/she can approach the HOD through their mentor. Even if the issue is resolved, the student can approach Internal Examination Grievances Cell.

Internal Examination Grievances Cell (IEGC)

Internal Examination Grievances Cell takes utmost care in resolving internal examination related issues. This cell actively resolves the issues such as inappropriate evaluation, out of syllabus question paper, etc.

Time-Bound

Internal grievances are resolved within the time-bound as given below:

Internal Assessment in 7-10 days

Communication to Students in 11-12 days

Grievance resolution within 2 days

Display of ISE\CT\MSE marks on Notice Board within 15 days after the examination

Impact

Grievances received by Internal Examination Grievances Cell will be addressed within a two day and achieved transparency in the mechanism.

File Description	Document
Link for additional information	View Document

2.6 Student Performance and Learning Outcomes

2.6.1 Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.

Response:

The Institution has clearly stated Program Outcomes, Program Specific Outcomes, and Course Outcomes. The following mechanism is followed by the institution to communicate outcomes to the stake holders including teachers and students.

- College website:
- Department Notice Board
- HOD chamber
- Display at the Prominent Locations of the department

Affiliating University had defined COs for some courses while for other courses the course teacher defines Course Outcomes using revised Bloom's Taxonomy. Head of the Department review and approve the Course Outcomes (CO). Outcome of each course are mapped to Program Outcomes and Program Specific Outcomes in terms of their correlation. The contribution of a course to each PO/PSO is expressed in terms of the average relevance of COs mapped to that particular PO/PSO. Course Outcomes of all courses, Program Outcomes and Program Specific Outcomes of all programs are displayed on the website.

File Description	Document
Upload COs for all Programmes (exemplars from Glossary)	View Document

2.6.2 Attainment of programme outcomes and course outcomes are evaluated by the institution.

Response:

Procedure adopted by this institute to evaluate the attainment of POs/PSOs and COs is as described below.

A. Institute sets the expected level of attainment of POs/PSOs and COs.

B. Institute calculates attainment of COs and then calculates attainment of POs/PSOs

C. Institute uses two tools as given below for attainment of COs with their weightage shown in the bracket.

1. Direct assessment tools (80%): Institute uses the following two direct assessment tools for the evaluation of attainment of COs and hence POs/PSOs with the weightage shown in the bracket. Attainment of COs is evaluated using all the three tools. For evaluating attainment of POs/PSOs, the mapping of PO/PSO and course is done. The average of attainment of COs of all the related courses are used to calculate the level of attainment.

1. Continuous assessment during the semester and its analysis (30%): Students are evaluated continuously with help of assignments, class tests and their performance in laboratories throughout the semester. Result of continuous assessment is a significant indicator of attainment of COs. Average marks of all students of continuous assessment are calculated and its % is used for evaluation of attainment.

2. University examination and its result analysis (50%): Result of University examination is analyzed for each subject after its declaration which provides sufficient information about attainment of COs. Average marks of all students of University examination are calculated and its % is used in evaluation of attainment. It is assumed that the attainment of COs is 100% if average marks of all student for any course is more than 80%.

2. Indirect tools (20%): Institute uses the feedback from students as indirect tool: Structured feedback is obtained from every students at the end of every semester wrt teaching quality, satisfaction level and attainment of COs.

% attainment of COs = (0.3*% attainment of COs using direct tool number 1) + (0.5*% attainment of COs using direct tool number 2) + (0.2*% attainment of COs using indirect tool)

D. Attainment of POs/PSOs are calculated as follows.

% attainment of POs/PSOs = Average of % attainment of COs of all related courses

E. Results of attainment of all COs and POs/PSOs and action taken are documented in the appropriate format. (Sample formats along with attainment calculation for one academic year are enclosed in additional information)

File Description	Document
Upload any additional information	View Document
Paste link for Additional information	View Document

2.6.3 Average pass percentage of Students during last five years

Response: 85.49

2.6.3.1 Number of final year students who passed the university examination year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
365	286	166	132	171

2.6.3.2 Number of final year students who appeared for the university examination year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
385	286	209	174	221

File Description	Document
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	View Document
Paste link for the annual report	View Document

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response: 3.2

File Description	Document
Upload database of all currently enrolled students (Data Template)	View Document

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1 Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)

Response: 1.45

3.1.1.1 Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
0	1.14	0	0	0.31

File Description	Document
List of endowments / projects with details of grants	View Document
e-copies of the grant award letters for sponsored research projects / endowments	View Document

3.1.2 Percentage of teachers recognized as research guides (latest completed academic year)

Response: 3.17

3.1.2.1 Number of teachers recognized as research guides

Response: 2

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

3.1.3 Percentage of departments having Research projects funded by government and non government agencies during the last five years

Response: 48

3.1.3.1 Number of departments having Research projects funded by government and non-government agencies during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
0	9	1	1	1

3.1.3.2 Number of departments offering academic programmes

2020-21	2019-20	2018-19	2017-18	2016-17
5	5	5	5	5

File Description	Document
Supporting document from Funding Agency	View Document
List of research projects and funding details	View Document

3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

Response:

The institute has set up an innovation ecosystem to encourage a culture of innovation among the young talents in the campus. The institution keeps up the ecosystem vibrant and performs with state of the art infrastructure and suitable scholarly human resources. To propel innovations in engineering field, the institution has established the active Research Cell which promotes the submission of proposals to various funding agencies. It also motivates the faculty members to provide the consultancy at local level.

Initiatives for the research awareness

1. Research Lab: Institute has research lab under PG department of Electrical Engineering. Students of PG and faculty members take the benefits of facilities available in the laboratory to carry out their project/dissertation/research work. Lab has well equipped with Mat lab, Language Software and licence plagiarism checking software.

2. Research Cell: The cell is created with the objective of nurturing and training the students to provide research solution to real world problems. The institute conducts workshop, seminar, webinar, and interaction session with experts from collaborative Industries/institutes/organisations.

Research proposals are being submitted to affiliated universities and AICTE. It guides and motivates the faculty members and students to publish/present their research work in reputed journals, various national and international conferences. Research Cell monitors and ensures the innovation ecosystem of the institution stays updated and contemporary. It also organizes lectures on IPR related topics to provide

information on filing patents, Research Methodology, and Recent Trends in Engineering and Science to enable to undertake research activities.

3. FDP Cell: Cell Organizes the faculty development programs which provide exposure to faculty in recent technologies in the field of Engineering, Management and Science.

4. Library Resources: The Institution has a subscription to International Membership of DELNET, E-Journals and number of National and International Journals/magazines to promote research and Development activities in the campus. Details available in chapter IV.

File Description	Document
Upload any additional information	View Document

3.2.2 Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years

Response: 0

3.2.2.1 Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	0	0

File Description	Document
Report of the event	View Document
List of workshops/seminars during last 5 years	View Document

3.3 Research Publications and Awards

3.3.1 Number of Ph.Ds registered per eligible teacher during the last five years

Response: 3.5

3.3.1.1 How many Ph.Ds registered per eligible teacher within last five years

Response: 7

3.3.1.2 Number of teachers recognized as guides during the last five years

Response: 2

File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	View Document
Any additional information	View Document

3.3.2 Number of research papers per teachers in the Journals notified on UGC website during the last five years

Response: 0.23

3.3.2.1 Number of research papers in the Journals notified on UGC website during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
3	11	1	0	0

File Description	Document
List of research papers by title, author, department, name and year of publication	View Document
Any additional information	View Document

3.3.3 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

Response: 0.44

3.3.3.1 Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
1	0	14	8	6

File Description	Document
List books and chapters edited volumes/ books published	View Document
Any additional information	View Document

3.4 Extension Activities

3.4.1 Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the last five years.

Response:

Induction Programs is being conducted every year as per the directives of AICTE, New Delhi for the first year/direct second admitted engineering students, first year MBA and B.Voc. students through which the students are motivated to participate in the extension activities organised by institute in the neighbourhood community. involvement of students in programmes organised by various cells and bodies ensure their participated in extension and outreach programmes.

The institute has received awards and recognition of this contribution towards social responsibility and community development activities. Number of programmes are being organised by Institute as listed below.

- **Women's Day-** On occasion of Women's Day, the institute convened the awareness programme for Save Girls, Educate Girls, Female Safety, Use Helmet, etc.
- **Blood Donation Camp-** In collaboration with the Red Cross Society of India, Jalgaon branch and Godavari Blood Bank; the College has been organising the Blood Donation Camps.
- **UDAAN-** College organised UDAAN programme to donate the cloths to poor peoples in slum area.
- **Tree Plantation-** To save environment and dissiminate the awareness about envirnament in the neighbourhood society the institute organises tree plantation program every year.
- **Flood Relief Fund-** College organised the rally to collect the donation for Kerala Flood Relief Fund.
- **Jal Diwas-** College carried the rally and Swachh Bharat Abhiyan on the day of Jal Diwas. The institute has got the First prize from AICTE, New Delhi.
- **Seminar For Farmers-** The Gram Panchayat, Dhar and the Institute jointly organised the awareness programme for farmers to about soil testing and its benefit to agriculture.
- **Paper Bag Distribution-** Use of plastic is harmful for the environment and hence the students of this institute made the paper bags and distributed in the neighbourhood community including the various stores and food stalls. It helped to dissiminate the awareness about envirnament in the neighbourhood society.
- **Best out of West-** On the occasion of Amrut Mahotsavi Year of the parent Society; this institute conducted the competition for students "To Make the Best from the West".
- **Water and Energy Conservation-** College conducted the Seminar on Water and Energy conservation for students and faculty members as an awareness programme.
- **Yoga Camp-** For good health Yoga is important. The institute organised the Yoga camp with Soham Yoga Institute for all stakeholders.

File Description	Document
Upload any additional information	View Document

3.4.2 Number of awards and recognitions received for extension activities from government/ government recognised bodies during the last five years

Response: 8

3.4.2.1 Total number of awards and recognition received for extension activities from Government/ Government recognised bodies year-wise during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
1	4	2	1	0

File Description	Document
Number of awards for extension activities in last 5 year	View Document
e-copy of the award letters	View Document

3.4.3 Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years

Response: 9

3.4.3.1 Number of extension and outreach Programmes conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
2	3	2	1	1

File Description	Document
Reports of the event organized	View Document
Number of extension and outreach Programmes conducted with industry, community etc for the last five years	View Document

3.4.4 Average percentage of students participating in extension activities at 3.4.3. above during last five years

Response: 15.87

3.4.4.1 Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
181	144	196	102	106

File Description	Document
Average percentage of students participating in extension activities with Govt or NGO etc	View Document

3.5 Collaboration

3.5.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year

Response: 4

3.5.1.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
1	2	1	0	0

File Description	Document
e-copies of related Document	View Document
Details of Collaborative activities with institutions/industries for research, Faculty exchange, Student exchange/ internship	View Document

3.5.2 Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the last five years

Response: 17

3.5.2.1 Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
2	7	1	3	4

File Description	Document
e-Copies of the MoUs with institution/ industry/corporate houses	View Document
Details of functional MoUs with institutions of national, international importance, other universities etc during the last five years	View Document
Any additional information	View Document

MAAC

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.

Response:

The campus is spread over 2.52 acres (10198.30 sq. meters) land. The institution has excellent infrastructural facilities like spacious classrooms, laboratories, workshops, library, faculty rooms, seminar halls and separate girls hostels. The institution has augmented infrastructure and those essential to maintain, renovate the existing ones. The description of adequacy of facility for teaching learning as per the minimum specified requirement by AICTE and affiliating University viz., KBCNMU, Jalgaon and DBATU, Lonere is available and it includes the total built up Area – 10160 SQM. The physical facilities comprise of 17 classrooms (1516SQM), 33 laboratories (2518SQM), 2 seminar halls (267SQM), 6 tutorial rooms (215SQM), 1 drawing hall (155SQM), 1 research lab (66SQM), 1 computer centre (156SQM) and 1 language lab (66SQM) with total instructional area of 5412 SQM.

The administrative facilities available in college includes Principal Room and one Principal office (99 SQM), six HOD cabin and six department offices (257 SQM), two separate Faculty Room (65 SQM), Pantry for Staff (12SQM), two Examination Office (134 SQM), Board Room (23 SQM), Central Store (39 SQM), rooms for Maintenance and Housekeeping (68 SQM) and Security cabin (15 SQM).

The amenities area available includes Boys Common Room (104 SQM), Girls Common Room (138SQM), Cafeteria (167 SQM), First Aid & Medical Room (21 SQM), toilet (271 SQM) distributed in college campus as per convenience to students and staff, Girls hostel (464 SQM), Guest house (47 SQM) and One stationary store of 12 SQM.

Departmental notice board is available for students to display their creative writings to bring forth the hidden talents of the students. There are three water coolers with RO system to provide purified cold drinking water.

For effective teaching-learning process projectors are installed in all the class rooms and for the purpose of surveillance CCTVs are installed at all corners of campus.

In the library sufficient number of titles (4394), volumes (22165), National Journals (21), International Journals (21), e-books (530) and e-journals (324) are available. The books are properly maintained in different bookshelves according to the DDC method. Also, the Reprographic Facility, Facilities for viewing e-content from NPTEL/SWAYAM etc, Membership of National Digital Library of DELNET (Developing Library Network) and e-ShodhSindhu Membership are available.

The Institute has well developed computing resources (more than the requirements as per university and AICTE norms) with 404 latest configuration computers, 44 printers, 9 legal system software and 49 legal application softwares.

Total lab equipment and furniture cost is approximately Rs 3.70 Crore. The institute has subscription of Spoken tutorials certified courses with the IIT, Bombay. Virtual Labs Nodal Centre (VLNC) facility is

provided with an initiative of Ministry of HRD under National Mission in Education through ICT. Online lectures recording facility is available. In CDEEP all FDP and students development programs are conducted with collaboration National Mission in Education through ICT and MHRD. There are two Internet Bandwidth available 50 MBPS and 40 MBPS. Also, there are 9 secured Wi-Fi connectivity access points. Internet & Intranet facility are available.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

4.1.2 The Institution has adequate facilities for cultural activities, sports, games (indoor, outdoor), gymnasium, yoga centre etc.

Response:

This institute has made a name for itself in several sports & cultural activities. Sufficient facilities for all the indoor and outdoor sports activities i.e., Archery, Badminton, Basketball, Chess, Carrom, Cricket, Football, Gymnastic, Gymnasium, Handball, Kabaddi, Kho-Kho, Rifle shooting, Swimming, Skating, Tennis, Table Tennis, Volleyball, Yoga etc are made available to students. The few of Indoor and Outdoor facilities for Archery, Badminton, Basketball, Cricket, Football, Gymnastic, Gymnasium, Handball, Kabaddi, Kho-Kho, Rifle shooting, Swimming, Skating, Tennis etc. are provided by our parent Society's Eklavya Krida Sankul with particular time slot for our students.

Indoor and outdoor games facilities are being raised to a satisfactory level for the students and are under the strict vigil of a Physical Education teacher who sees that the games and sports are helping the participants to attain all round development primarily from the point of mind and body. The Eklavya Krida Sankul has International Olympic standard Swimming pool, standard Badminton and Table Tennis courts and a Gymnasium with modern equipments.

Physical Education and Sports Science serves as a vital and integral part of student life in campus. The mission of the department is to provide a broad spectrum of sports, recreation, and leisure activities for students, staff and faculty. The primary direction is to provide services and programs that stimulate growth, development and retention of students in a contemporary and safe environment that develops fitness and wellness, social interaction and leadership opportunities. The College offers multiple facilities on campus to cater to the physical development of students.

Various cultural activities organised in the institute includes includes dance, music, singing, theatre, fine arts, variety entertainment, elocation, debate, literary activities, quiz competition, magazine etc. The extra-curricular activities committee looks after the various cultural activities to be performed during fresher's welcome, teachers day, celebrating national and international, commemorative events and annual social gathering in the institute. For annual social gathering, open space of the insitute/parent society is used while tent, chairs, music system etc are procured on rent. The senior faculty members keep on mentoring interested students for cultural activities. Wall magazine is maintained by almost all departments where students contribute their write-ups, drawings, which in turn highlight their talents.

The Sports and Cultural forum works for nurturing the talents of students in different forms extra curricular activities. Cash allowances are given for out-station participants, sports and cultural achievers. The necessary training is provided through experts to the participating students.

Every year health and fitness classes (Yoga, Meditation and Recreational Games) are being conducted for all 1st year students in odd semester during induction program. A numbers of awards/medals for outstanding performance in sports/cultural activities at institute/university/national/international level have been accomplished. The college encourages the students to take part in cultural activities that enable them to showcase their talent and creativity in various inter-collegiate events. Every year this institute organizes "SPITECH" biggest techno-cultural-adventure fest in the state of Maharashtra.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

4.1.3 Percentage of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc. (Data for the latest completed academic year)

Response: 52.63

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 10

File Description	Document
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View Document
Upload any additional information	View Document
Paste link for additional information	View Document

4.1.4 Average percentage of expenditure, excluding salary for infrastructure augmentation during last five years(INR in Lakhs)

Response: 26.36

4.1.4.1 Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
19.49	33.46	24.50	15.86	48.11

File Description	Document
Upload Details of budget allocation, excluding salary during the last five years (Data Template)	View Document
Upload audited utilization statements	View Document
Upload any additional information	View Document

4.2 Library as a Learning Resource

4.2.1 Library is automated using Integrated Library Management System (ILMS)

Response:

The college has a voluminous computerized library which caters to the needs of students, research scholars and faculty members. It is housed in a spacious hall of size 517 sqm which includes stack area and reading room of the seating capacity of 150 users at a time.

The library had been automated using Soft Campus. The automation is useful to improve and streamline the library operations in a more effective and efficient manner. There is an open access catalog for students and staff. The reading room is well furnished to accommodate the 150 students. Web Online Public Access Catalog (OPAC) facility is made available through Soft Campus software to know the bibliographical details about the collection. One separate node is made available in the library for OPAC facility. As it is a Web OPAC, user from any location can search the library collection by giving title, author, and domain. Exclusive reference section is available in the library. New arrivals of books and journals are displayed on separate stands and racks. CCTV cameras are installed in the library for strict surveillance.

All the books have been classified and catalogued using DDC and arranged on open shelves. Books are organized subject-wise for easy access and quick retrieval. Access to all the on-line library collection, such as the National Digital Library of DELNET (Developing Library Network) and e-ShodhSindhu have been made available throughout the campus using Intranet for the use of faculty members and students. Digitized CDROM information pertains to the question papers have also been provided in the same platform.

Digital Library

A well-equipped digital library with internet connected 10 nodes is housed in the library for access to e-resources. As the access facility for e-journals is multi-user and IP address-based, students can access the e-resources from anywhere in the campus. The e-Resources of the central library can be accessed remotely using the IP address provided to students and faculty members. The library has access to more than 324 e-Journals and 530 e-books on various branches of Engineering, Science, Technology, Management in addition to 42 National and International Printed Journals.

File Description	Document
Upload any additional information	View Document
Paste link for Additional Information	View Document

4.2.2 The institution has subscription for the following e-resources

- 1.e-journals
- 2.e-ShodhSindhu
- 3.Shodhganga Membership
- 4.e-books
- 5.Databases
- 6.Remote access to e-resources

Response: A. Any 4 or more of the above

File Description	Document
Upload any additional information	View Document
Details of subscriptions like e-journals, e-ShodhSindhu, Shodhganga Membership , Remote access to library resources, Web interface etc (Data Template)	View Document

4.2.3 Average annual expenditure for purchase of books/e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)

Response: 3.45

4.2.3.1 Annual expenditure of purchase of books/e-books and subscription to journals/e- journals year wise during last five years (INR in Lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
4.74	2.66	3.45	1.35	5.05

File Description	Document
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the last five years (Data Template)	View Document
Audited statements of accounts	View Document
Any additional information	View Document

4.2.4 Percentage per day usage of library by teachers and students (foot falls and login data for online access) during the latest completed academic year

Response: 1.59

4.2.4.1 Number of teachers and students using library per day over last one year

Response: 20

File Description	Document
Details of library usage by teachers and students	View Document

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities including Wi-Fi

Response:

The hardware cell of the institute monitors the campus networking facility of the institution for ubiquitous network connectivity throughout the campus. At present college have two Layer-2 switches and one Layer-3 switches. The connectivity between the layer switch to the firewall is through multimode fibre optic backbone.

The existing bandwidth of the internet is 90 MBPS (50 MBPS of Skynet lease line and 40 MBPS of BSNL FTTH). Hardware cell strives hard to maintain uninterrupted 24/7 Internet facility to the college. The institute has three tower servers (available only one license windows 2012) to meet the computing requirements of the campus. One is for server-2012 and other Matlab.

ISP provides five static IP addresses. One static IP address for various laboratories of the institute, second IP for examination department, third IP for CEDEEP centre of IIT, Bombay and fourth for library journal.

The total number of computers on network is 404 with 3 server including the 125 number i5 systems purchased in the academic year 2019-20 to meet the technological advancements. In addition to this, all CRT monitors are completely replaced with LCD monitors. The number of printers (44) and scanner (7) are sufficient as compared with the norms and requirements. There are 9 licensed system software's with one open source system software. There are 40 licensed application softwares with near about 9 open source application softwares. The Tally 9.1 ERP Silver is purchased in 2017 and Microsoft 365 A3 in 2020. This institute has one cyberoam 100ia Fire wall, 3 routers (dlink & Digisol), 3 layer manageable switches, 32 unmanageable switches and 9 -Wifi access points. Hardware cell has qualified technical support staff for effective maintenance.

The six classrooms and two seminar halls are equipped with LCD projectors, LAN facilities and Wi-fi with all accessories. Remaining classrooms are wi-fi connected. The college has well equipped Lecture Capture System. Totally, 2 Systems for each department installed in the department for recording lectures and online classes.

All departments have scanners and printers.

The Examination section has a high-speed multi tray scanner cumprinter.

A scanner cum printer is available in administrative office. A laser printer is available in all the departments to take printouts. Computer labs with the latest software and Internet facility are available to the students. Hardware and software update is in line with the demand of the latest syllabus as well as students

CCTV cameras have been installed in all the prominent and required venues to achieve 24x7 campus surveillance.

Hardware cell team is focused on upgrading the IT facilities so as to provide the best of the facility to the students.

The maintenance of computers, and installation of software are done by programmers whereas, hardware and internet related issues are handled by hardware and networking professionals.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

4.3.2 Student - Computer ratio (Data for the latest completed academic year)

Response: 2.48

File Description	Document
Upload any additional information	View Document
Student – computer ratio	View Document

4.3.3 Bandwidth of internet connection in the Institution

Response: A. 750 MBPS

File Description	Document
Upload any additional Information	View Document
Details of available bandwidth of internet connection in the Institution	View Document

4.4 Maintenance of Campus Infrastructure

4.4.1 Average percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years(INR in Lakhs)

Response: 52.22

4.4.1.1 Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year-wise during the last five years (INR in lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
36.31	66.21	74.14	41.33	56.28

File Description	Document
Upload any additional information	View Document
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	View Document
Audited statements of accounts	View Document

4.4.2 There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

Response:

The physical, academic and support facilities like laboratories, workshops, classrooms, computers, library, sports and cultural facilities, gymnasium etc. are made available to all the students and faculty members of the college. Budgetary provision is made for the maintenance of the physical, academic and support facilities available in the institute.

The classrooms, laboratories, computer centre and furniture facilities etc. are utilized regularly for the students but sometime it is also made available for the other governmental and the non-governmental organizations for conducting the exams like MPSC, NEET, CET etc. if not in use for the said period.

- Laboratory- Record of maintenance account is maintained by lab technicians and supervised by HODs of the concerned departments. The calibration, repairing and maintenance of sophisticated lab equipments are done by the technicians of related owner enterprises.
- Library- Library advisory committee is in existence to suggest the books to be procured. On final approval of Principal; book are purchased as per the KCE Society policy.
- Sports: The maintenance of all indoor and outdoor games in the college are done by sports incharge consultant coach. In their guidance all the facilities are arranged.
- Computers- Computer maintenance through technical assistant is done regularly and non-repairable systems are repaired from outside and or disposed off.
- Classrooms- There are technicians, masons, plumbers, carpenters deputed by our society who

ensure the maintenance of classrooms and related infrastructure. With the help of the four full time sweepers cleanliness of class rooms is maintained. Each department have WhatsApp group with the current students where time to time students are communicated if they face any problem regarding their studies. Classes are also conducted online mode during Covid-19 pandemics.

- Backup power generator supply has been maintained in case of power failure.
- Additionally:-

1. There is a lab technician in every department, who maintains the stock register.
2. Department wise stock verification is done.
3. Regular cleaning of water tanks, proper garbage disposal and maintenance of lawns is done by Institute concern Employees.
4. College campus maintenance is monitored through regular inspection.
5. Regular maintenance of the water cooler and water purifier is done regularly.
6. The fumigation and cleaning of library is done frequently by library staff.

Academic and Support Facilities

All academic support facilities and the other physical support platforms are made available for overall development of the students. Each department has appropriate computer as per their requirements. In our college campus Internet and WIFI is availability for 24*7.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during last five years

Response: 64.83

5.1.1.1 Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)

2020-21	2019-20	2018-19	2017-18	2016-17
905	842	680	235	428

File Description	Document
upload self attested letter with the list of students sanctioned scholarship	View Document
Upload any additional information Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years (Data Template)	View Document

5.1.2 Average percentage of students benefitted by scholarships, freeships etc. provided by the institution / non- government agencies during the last five years

Response: 0

5.1.2.1 Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	0	0

File Description	Document
Number of students benefited by scholarships and freships institution / non- government agencies in last 5 years (Date Template)	View Document

5.1.3 Capacity building and skills enhancement initiatives taken by the institution include the following

1. Soft skills
2. Language and communication skills
3. Life skills (Yoga, physical fitness, health and hygiene)
4. ICT/computing skills

Response: A. All of the above

File Description	Document
Details of capability building and skills enhancement initiatives (Data Template)	View Document
Any additional information	View Document
Link to Institutional website	View Document

5.1.4 Average percentage of students benefitted by guidance for competitive examinations and career counselling offered by the Institution during the last five years

Response: 16.35

5.1.4.1 Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
0	177	254	281	0

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	View Document
Any additional information	View Document

5.1.5 The Institution has a transparent mechanism for timely redressal of student grievances

including sexual harassment and ragging cases

- 1. Implementation of guidelines of statutory/regulatory bodies**
- 2. Organisation wide awareness and undertakings on policies with zero tolerance**
- 3. Mechanisms for submission of online/offline students' grievances**
- 4. Timely redressal of the grievances through appropriate committees**

Response: A. All of the above

File Description	Document
Upload any additional information	View Document
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	View Document
Details of student grievances including sexual harassment and ragging cases	View Document

5.2 Student Progression

5.2.1 Average percentage of placement of outgoing students during the last five years

Response: 13.43

5.2.1.1 Number of outgoing students placed year - wise during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
7	56	37	24	40

File Description	Document
Upload any additional information	View Document
Self attested list of students placed	View Document
Details of student placement during the last five years (Data Template)	View Document

5.2.2 Average percentage of students progressing to higher education during the last five years

Response: 5.5

5.2.2.1 Number of outgoing student progression to higher education during last five years

Response: 22

File Description	Document
Upload supporting data for student/alumni	View Document
Details of student progression to higher education (Data Template)	View Document

5.2.3 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: IIT-JAM/CLAT/ NET/SLET/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations, etc.)

Response: 43.08

5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: IIT/JAM/ NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations, etc.)) year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
02	06	02	0	0

5.2.3.2 Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government examinations) year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
13	06	02	0	0

File Description	Document
Upload supporting data for the same	View Document
Number of students qualifying in state/ national/ international level examinations during the last five years (Data Template)	View Document
Any additional information	View Document

5.3 Student Participation and Activities

5.3.1 Number of awards/medals won by students for outstanding performance in sports/cultural

activities at inter-university/state/national / international level (award for a team event should be counted as one) during the last five years.

Response: 8

5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national / international level (award for a team event should be counted as one) year-wise during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
0	1	5	2	0

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/ national/international level during the last five year	View Document
e-copies of award letters and certificates	View Document

5.3.2 Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities following duly established processes and norms (student council, students representation on various bodies)

Response:

The students' council is formed as per the guidelines of affiliating University. The members of student council or any other student representative body are involved in various academic, co-curricular and extracurricular activities as per the students' council's nomination. The details of students council is given below.

Objectives:

- The purpose of the student council is to give students an opportunity to develop leadership by organizing and carrying out College activities and service projects.
- Create an environment where every student can voice out their concern or need.
- To provide a platform where the students can showcase their talent without hesitation.
- The student council is responsible for the fluid and graceful functioning of Student and College organized events.
- To initiate, implement, and complete activities which will be of help to the college, the students, the faculty, and the administration.
- To develop and provide opportunities for leadership and service in the college and in the community.
- To provide a viable means for student expression and an increasing amount of self- direction.

- To improve understanding between and within groups through interaction and communications.
- To develop student potential and encourage to make a well-informed, honest, interested and active citizenship.

Activity:

To encourage and organize extracurricular activities in order to bring out hidden talents to students and to inspire them to participate in these activities that include cultural and social events for the overall development of students and various activities conduct as follows:

1. Youth Festival
2. Clean Campus
3. Swachh Bharat
4. Tree Plantation
5. Blood Donation

University arrange the annually district level youth festival, where these youth festivals are always coordinated at the state and national level. To provide an opportunity for our students to understand the different activities conducted by University.

Student council has opportunity to represents our institute at the university level to put up and address student's problems and expectation.

Structure of council:

University Representative

General Secretary

Cultural Secretary

Sports Secretary

Lady Representative

Class Representatives (Topper from the class)

Election Process:

Rules and regulation are displayed on the notice board of all departments well before the formation of the student council.

- Topper from boys and topper from girls from each class are selected as Class representatives.
- Nominations for the various positions of University Representative, General Secretary, Cultural and Sports Representatives etc. are invited from the various department heads
- Suitable candidate for the said position is selected by taking interview on the basis of skill set and talent required for the position.

Representation on bodies:

- Anti ragging Committee
- IQAC

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

5.3.3 Average number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions)

Response: 9.4

5.3.3.1 Number of sports and cultural events/competitions in which students of the Institution participated year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
0	10	23	13	1

File Description	Document
Report of the event	View Document
Number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions (Data Template)	View Document

5.4 Alumni Engagement

5.4.1 There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

Response:

To provide a good and strong bridge for the students, faculty and the institute with alumni for mutual benefit and synergy; the institute organises Alumni Meetings every year through an alumni cell at institute level. It enables the students to interact with their seniors to know the need of the industry, skills required for the industries, recent trends and technological developments. Every alumni meet is followed by feedback from the alumni for further improvement. At present, the institute does not have registered alumni association but the process of registration was initiated in academic year 2020-21 and proposal

submitted for registration on January 11, 2022. Therefore, it is expected that the alumni association will be registered in the academic year 2021-22. The institute had already applied for the registration of Alumni Association (copy enclosed as additional information) with the objective to promote a lifelong relation and to act as a forum for the exchange of information among its members.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

5.4.2 Alumni contribution during the last five years (INR in lakhs)

Response: E. <1 Lakhs

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The governance of the institution is reflective of and in tune with the vision and mission of the institution

Response:

Vision: To embrace innovative theories, techniques and technologies to insure success in changing World

Mission: Leading students from ground to skies through excellence to articulate identity.

Quality policies:

- We are committed for preparing students for professional success to become democratic citizen in global environment.
- We will continuously update to cross boundaries of knowledge through interdisciplinary research.
- We will enhance the moral and ethical values of students.

The mission and vision of the institute reflects a student-centric thrust, emphasizing on holistic development of students providing equal opportunities and quality education. In pursuit of our Vision and Mission KCES's COEM aims:

1. To provide quality technical education at the cost affordable
2. Enhancing the quality of life through sustainable development.
3. To discover full potential and managerial competencies of the students.
4. To imbibe human values in all activities.
5. To make students ready for industry by projects/internships/research projects.

Based on the Vision and Mission of the Institution, Quality Policies are framed considering the needs of the corporate world, society and stakeholders. Institute has a perspective plan developed by Principal, HoD's and members of IQAC, under the guidance of CDC.

The governance comprising of College Development Committee (CDC), Internal Quality Assurance Cell (IQAC) and other committees/cells which play the significant role in major activities of the institute. The management of KCES plays important role through CDC of CoEM, Jalgaon to provide excellent infrastructure facilities and healthy teaching-learning environment to the students and faculty in order to implement the quality policy and plans. The CDC periodically reviews the progress made by Principal, HoDs and faculty in implementing the policies and plans to the satisfaction of all the stakeholders and motivates/suggests for further improvements. Thus the management not only proactively encourage and motivate faculty and staff but also provides the financial support for realizing the vision of the institute. IQAC has a well-developed process to ensure quality benchmarks of academic and administrative activities.

The Institute believes in promoting a culture of delegation of powers. The Principal of institute is assisted by HoDs, administrative head, section in-charges and coordinators of various cells/committees in decision making process. Faculty and staff members are assigned with the roles and responsibility to work in a

harmonious environment with complete transparency. To streamline the involvement of all faculty/staff members in decision making, various committees at Institute level are formed which look after academic and administrative activities.

The institution follows a democratic and participatory mode of governance with all stakeholders participating actively in its administration. The heads of departments, the co-ordinators of various committees along with the staff representatives on higher decision-making bodies play an important role in determining the institutional policies and implementing the same.

The Governance of institute promotes to organize the activities for the students' comprehensive development through:

- academic activities like continuous assessment, student mentoring, technical events etc.
- **co-curricular** activities like technical events, industrial visits and expert lectures, workshops, EDP, etc.

extracurricular activities like various community development activities, indoor and outdoor sports activities, personality development, environmental protection, cultural, spiritual, motivational, ethical teaching etc.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.1.2 The effective leadership is visible in various institutional practices such as decentralization and participative management

Response:

The institution practices decentralization and participatory management in keeping with its belief in collective leadership and democratic traditions. A particular reflection of this practice may be seen in the extensive delegation of authority to the dean academics, heads of the various departments, committee/cell coordinators in the college.

Decentralization:

Academic and administrative activities are controlled by the Principal and delegated powers to the faculty members through HoDs for academics and to the registrar/office superintendent for the administrative activities. This mechanism provides operational autonomy across the hierarchy.

On discussion with academic dean, HoDs, and the members of IQAC; the Principal takes the decisions and delegates authority to the academic dean, HoDs, faculty members in order to achieve smooth functioning of the institute. Head of departments enjoy considerable administrative and academic

autonomy in running their respective departments effectively. Teachers discharge an important role in implementing the vision and mission of the institute and to that end play a proactive part in the decision-making process.

The suggestions by faculty members are involved in improvement of teaching learning process and are conveyed to the management through Principal. The management ensures that the opinions and suggestions made by faculty members are included in decisions implemented for the institute development.

Besides, faculty members and co-ordinators of the various committees that are instituted for the day-to-day functioning of the institute. Some of these committees are the examination committee, the admission committee, the library committee, the research and development committee, anti ragging committee, sports committee, discipline committee, industry institute and alumni institute interaction committee or training and placement committee, etc.

Participative Management:

There are various committees involving faculty which are constituted to manage different institutional activities. Committees are formed for the various curricular, co-curricular and extra-curricular activities to be conducted during the academic year. The departments are encouraged to arrange various activities for the benefit of students, faculty/staff members and other stakeholders. In addition, the management has extended enough financial powers to the Principal and HoDs for smooth functioning of the institute.

Participation and fulfilling of executive responsibilities in committees for development and purchase, discipline and code of conduct by heading and participating in staff council committees such as the purchase committee, the development committee, the anti-ragging cell, the discipline committee. The faculty members are also members of the internal complaints committee against Sexual Harassment.

The Principal discuss with the academic dean, the IQAC and the related faculty/staff members of committees. At the same time, academic dean also work in consultation with the rest of the department over matters such as electives, schedule of the internal assessment, department events, assessment of students' performance, and so on.

Students are assigned responsibilities of leadership, and management of, curricular, co-curricular, extra-curricular activities which include Tech-Fest, annual social gathering, etc. In nutshell the faculty members and students are involved in supporting the administrative, academics and extra-curricular aspects of the institute.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.2 Strategy Development and Deployment

6.2.1 The institutional Strategic / Perspective plan is effectively deployed

Response:

Institutional strategic / perspective plans were prepared and implemented in view of institutional development with students' centric policies.

The activity successfully implemented based on the perspective plan prepared in 2016 which is available on institute's website. UG program in Mechanical Engineering was introduced from the Academic year 2015-16 and as per the perspective plan, all infrastructure requirement for Mechanical Engineering department should be fulfilled within 4-5 years. The newly started Mechanical department is deliberated over and strategic planning undertaken in the last five years.

The department established new labs every year effectively. For the same, the Principal approved the draft of tenders and requisite new equipment's for the laboratories.

As per perspective plan the required infrastructure for the UG program in Mechanical Engineering should be developed within 4-5 years.

KCE Society handed over the building of area 2056.77 sq. meters in the year 2016-17 for the development of Mechanical Engineering department.

As the establishment of Mechanical Engineering department started in 2016-17, initially the laboratories required to perform the practical of the courses of second year B. Tech. were developed which includes Theory of Machine, Material Science and Metallurgy, Fluid Mechanics. Progressively other laboratories were developed as given in the table.

Accordingly the table is precise below with all the details ,

Sr. No.	Particulars	Year	Amount	No. of Students
			(Rs. In lakhs)	
1.	Theory of Machine Lab	2016-17	3.7	Approx. 60 students per year
2.	Material Science and Metallurgy LAB	2016-17	7.92	Approx. 60 students per year
3.	Fluid Mechanics LAB	2016-17	2.12	Approx. 60 students per year
		2017-18	4.50	
		2018-19	3.51	
4.	Heat and Mass Transfer Lab.	2017-18	1.4	Approx. 60 students per year
5.	Thermodynamics Lab	2016-17	1.4	Approx. 60 students per year
6.	Refrigeration and air conditioning Lab	2018-19	7.55	Approx. 60 students per year
7.	CNC Lathe Trainer	2018-19	4.0	Approx. 60 students per year

				year
8.	CNC Milling Trainer	2018-19	4.5	Approx. 60 students per year
		Total	40.6	

The **Library investment** for the Mechanical Engineering Department is as below.

2015-16 – 97980

2016-17 – 89360

2017-18 - ----

2018-19 – 81230

2019-20 – 78140

2020-21 – 05580

352290

File Description	Document
Upload any additional information	View Document
strategic Plan and deployment documents on the website	View Document
Paste link for additional information	View Document

6.2.2 The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment, service rules and procedures, etc.

Response:

The Institute was established by KCES's in the year 2001. The KCES's CoEM follows society's governing body headed by the Hon. President and supported by Secretary, Treasurer, Vice President and management council members.

Each Institute under the umbrella of KCES's has its own College Development Committee. The General Body of the KCES is the ultimate authority.

Management Council of the KCES:

The members of the KCES elect their representatives through election as per the provisions of the constitution of the KCES on its management council to manage the affairs of the trust. The management

council is responsible for the overall planning and decision-making of the trust on behalf of the members.

President and other office bearers of the KCES:

The management council elected by the apex body (General Body of the KCES) is headed by the Hon. President. The President and other office bearers viz Secretary, Treasurer, Vice President are elected from among its management council members.

College Development Committee:

Presently as per the provisions of section 92 of the Maharashtra Public Universities Act, 2016, a statutory committee, viz, ‘College Development Committee’ has been constituted.

The Principal:

The Principal of the Institute is the academic and administrative head.

Functions of the various bodies:

Various committees such as Anti-Ragging Committee, R&D Committee, Grievance committee, Anti-Sexual harassment Committee, etc., have been constituted at the institute level involving faculty and students for smooth functioning of the institution.

IQAC: As per the guidelines of the NAAC, Bengaluru, the Institute has established an IQAC in the year 2014-15. The prime task of the IQAC is to develop a system for conscious, consistent and catalytic improvement in the performance of institutions.

Service Rules, Procedures and Recruitments:

- The recruitment, service, promotion, superannuation etc., are governed by the service rules of the various statutory authorities as well as rules and regulations as stipulated by the Management of the parent body.
- The Institute sends the proposal for filling up of vacancies to the University.
- After getting the approval, institute publish the advertisement inviting applications from eligible candidates, the same is published in the local newspapers, university website as well as on the Institute's website.
- The interviews are conducted as per university norms.

File Description	Document
Upload any additional information	View Document
Link to Organogram of the Institution webpage	View Document

6.2.3 Implementation of e-governance in areas of operation

- 1. Administration
- 2. Finance and Accounts
- 3. Student Admission and Support
- 4. Examination

Response: A. All of the above

File Description	Document
Screen shots of user interfaces	View Document
Details of implementation of e-governance in areas of operation, Administration etc	View Document
Any additional information	View Document

6.3 Faculty Empowerment Strategies

6.3.1 The institution has effective welfare measures for teaching and non-teaching staff

Response:

KCES's COEM implements several welfare policies for the welfare of the teaching and non-teaching staff.

The institution is having adequate welfare measures in place for both teaching and non-teaching staff, these welfare measures are governed by KCES Society.

The institution supports the teaching and non-teaching staff to enhance professional development by encouraging faculty members to associate with state, national and international professional bodies and to interact with the outside world. Motivating faculty members to organize state level, national level and international level conferences/seminars/workshops/symposia. Encouraging participation of faculty in FDPs, seminars, workshops and conferences.

The teaching and non-teaching staff attends various types of faculty/self-development programs and faculty enrichment programs and participates in Management Development programs which help them to improve their professional and networking skills.

The staff members are empowered with the significant role in decision making control over the work environment and conditions and opportunities to serve in a range of professional roles.

A few of the important activities which the Institution initiates and the staff participates are listed below:

- **Employees' Provident Fund:** This scheme is implemented as per Government guidelines/ norms.
- **Insurance:** This is provided by the college in the form of a Group personal accident Insurance Scheme.
- **Leaves:** Casual, Earned, Medical, Duty leave, Maternity leave as per State Government/ Institute policy.
- **Deputation of faculty for:**

1. Financial assistance for higher education

2. Duty leave as per norms

- **Faculty Enhancement:** Seminars, conferences, training programs and FDPs are organised for faculty enrichment purposes and for nurturing a competitive and thriving academic environment.
- **Sports facilities:** Free facilities to faculty members at society's Eklavya. Facilities such as Swimming Pool, Running Track, Gymnasium, Badminton Court, etc.
- **Work Environment-**Institute provides a healthy and clean work environment conducive for enhancing productivity at work.
- **Festival/ Emergency Advances:** Advances are given to all employees who desires to avail. The amount given as advance is thereafter deducted from monthly salaries.
- **Canteen facilities**
- **Other Facilities:**

A dedicated reading room equipped with Wi-Fi enabled computers and printer facilities is available in the library to access e-resources.

Facilities such as staff room, administrative office, department rooms, and other rooms serve as important working space outside the classrooms.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.3.2 Average percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

Response: 3.7

6.3.2.1 Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
5	4	2	0	1

File Description	Document
Upload any additional information	View Document
Details of teachers provided with financial support to attend conference, workshops etc during the last five years	View Document

6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years

Response: 5.2

6.3.3.1 Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
4	6	7	5	4

File Description	Document
Upload any additional information	View Document
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff	View Document

6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course).

Response: 27.64

6.3.4.1 Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
47	24	7	8	4

File Description	Document
Upload any additional information	View Document
Details of teachers attending professional development programmes during the last five years	View Document

6.3.5 Institutions Performance Appraisal System for teaching and non-teaching staff

Response:

Response:

The institution has an effective performance appraisal system for teaching and non-teaching staff. The system is in tune with AICTE recommended 360 degree feedback performance appraisal.

The faculty members are evaluated as per the norms of AICTE. The distinctive points for evaluation of the teachers include their academic qualifications and achievements, teaching-learning and evaluation related activities include lectures, seminars, tutorials, co-curricular, extension, professional development related activities, Publications and academic contributions, research and innovation, research papers and research guidance, etc.

The students feedback forms have 10 criteria related to aspects of teaching quality are included. These are punctuality, regularity, audibility, explanation, teaching aids usage, interaction with students during class, command over subject, control over class, syllabus coverage & attainment of course outcome. The duly filled in forms are analyzed by the HOD and the feedback thus obtained is judiciously addressed for the betterment of the Teaching-Learning process. The Principal tell to improve teacher's performance in the interest of professional up gradation, performance improvement and better & effective teaching quality to our primary stakeholders, the students.

The performance of the non-teaching staff is appraised by the Principal. They are assessed on the parameters of efficiency, cordiality and overall helpfulness and analyzed by the Principal and senior staff members who counsels those non-teaching staff members whose performance needs improvement.

Thus the performance of all teaching and non-teaching staff members is closely monitored. An improvement in the subsequent performance of the said staff members has usually been noticed. In the infrequent instances when this does not happen systematic reminders are issued to the concerned staff member in a bid to correct imbalances and restore optimal efficiency in the institution.

The institute is bound to practice a fair and result oriented performance appraisal in order to pace with today's competitive world as well as career development of the teaching and non teaching staff members. This promotes work satisfaction and a feeling of contentedness among all members of the institute.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

The Institute conducts both internal and external financial audits regularly. The audit and inspection procedure adopted in the Institute are as under:

1. Internal Audit :

The internal audit is conducted quarterly every year.

The internal auditor appointed by the K.C.E. Society cross-checks and verifies the records and suggests corrections if any and get the corrections incorporated in various accounting statements. .

2. Statutory Audit :

The statutory Auditor appointed by the K.C.E. Society conducts the audit of accounts of the Institute every year, which is presented for approval before the Governing body of the Institute.

All the financial documents including bills, vouchers etc. are verified and maintained transparency in the process. Budget proposals, Payments of bills and vouchers, and supporting documents of the entire financial year are scrutinized by auditors and advised the concerned departments to any possible improvement.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.4.2 Funds / Grants received from non-government bodies, individuals, philanthropers during the last five years (not covered in Criterion III)

Response: 0

6.4.2.1 Total Grants received from non-government bodies, individuals, Philanthropers year wise during the last five years (INR in Lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	0	0

File Description	Document
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the last five years	View Document

6.4.3 Institutional strategies for mobilisation of funds and the optimal utilisation of resources

Response:

The institute makes an annual planning and budgeting on funds and resources. Preparation of financial plan is an important function. The institute has a strong qualified finance team to allocate all funds in proper way so as to maintain the cash flow of the institute.

Budget for every academic year is prepared. Budgeted expenses are compared with the projected revenue and necessary modifications are done as and when required.

Procedures of the institution for mobilization of funds and optimal utilization of resources:

- The primary source of funds for the Institute is through the fees received from the students, fee concession and scholarship received from Government against college fees.
- The additional fund is received from KCE society for the development of the institute. The deficit of funds is fulfilled by the KCE Society.
- The Institute also receives consultation projects from various individuals, organizations and agencies.
- Consultation fees received from such sources are utilized for the development of the Institute from time to time.
- The institute allows to use its infrastructure for the various Government Exams like SET, NET, MPSC, NEET, MH-CET, etc. during Institute holidays /Sundays, to facilitate the candidates of surrounding area for generating additional revenue to the Institute. The prime intention is to provide facility and make availability for the nearby candidates.
- Institute does not receive any grant from any agency such as the UGC and other governmental bodies. The institute has to generate its own resources.
- The revenue and capital budgets are prepared separately every year, in order to ensure optimal utilization of resources.
- Departmental head provides their requirements for next financial year and Principal compiles same and prepare the budget.
- The CDC approves budgets and forwards it to the Managing Council of the K.C.E. Society for further perusal and final approval.
- The expenses incurred for day-to-day academic and administrative operations are under the

discretionary powers of the principal of the Institute.

- A major amount is utilized on payment of the salaries of the staff.
- The other major expenses include maintenance and up-gradation of facilities like equipments, computers, furniture, etc.
- The Institute also provides funds to the teaching-staff for attending conferences, seminars and workshops organized at national and international levels by other institutions.
- To ensure the effective, transparent and fair utilization of the resources, the accounts of the Institute are audited by statutory auditors.
- The audited Income and Expenditure accounts and balance sheet is approved by the Management Council and the general body of K.C.E. Society.
- The college development committees (CDC) follow the procedure of procurement as per the general guidelines of KCE Society.
- All financial documents and bills are processed by the accounts section, and the principal.
- Transparency is maintained through the entire process and allocated funds are optimally utilized.

Designing Resource mobilization policy and monitoring & evaluation of resource mobilization are done which is important for smooth functioning.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.5 Internal Quality Assurance System

6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

Response:

This institute had constituted structured IQAC in Nov. 2014 as per the guidelines of NAAC. Institute conducts regular meetings of IQAC to take general review of all processes in the institute and to suggest initiatives to be undertaken for quality education. The discussion involves planning of various activities for improvement of the academic and administrative performance of the institute, suggestion received by stakeholders and action taken report by the institute.

The IQAC has consistently made efforts to institutionalize quality assurance strategies and processes at every level of the institute, from devising strategies to implementing the same. The IQAC assures internal quality in all the activities of the institute in terms of academics, administration, and other allied areas. Two best practices of IQAC initiatives are:

1. Implementation of Local-Guardian Diary.

One step towards student centric teaching –learning process, CoEM develops and implements Local-Guardian diary from A.Y 2019-20. It helps to create a better environment in the institute, where students can approach teachers for both educational and personal guidance. Mentors are student-centric teacher-friends who help young adult learners in their transitory phases and challenging times. Mentors provide encouragement, motivation and counseling support. The Local-Guardian diary helps in -

- Maintaining the data base of student performance
- Supporting personal & professional growth
- Monitoring psychological growth & progress
- Identifying special talents, skills, slow learners & passing this information on, to the concern person
- Locating & solving attendance issues
- Providing sustained motivation
- Ensuring & providing feedback for parents
- Identifying learning needs

1. Compliance of curricular gap

Student is at a center of all academic and administrative processes at COEM. Development of curricular competencies is main objective of all the processes. Feedback mechanism plays crucial role in identification of curricular gaps. Gap analysis is performed by analyzing the feedback of all stake holders. To bridge the curricular gap, various expert lectures, seminar and workshop on recent trends are organized. Student enrichment is also encouraged by organizing value added/ certificate courses at various departments. To provide industrial exposure, MoUs are signed with various industries and students are motivated to participate in industrial visits and internship trainings.

Various faculty enrichment activities like organization and participation of FDP, workshops, SSTPs, consultancy services are encouraged. It helps faculties to keep pace with fast-changing world. It ultimately benefits students to increase the awareness about current industrial trends.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities (For first cycle - Incremental improvements made for the preceding five years with regard to quality For second and subsequent cycles - Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives)

Response:

Response:

As mentioned in 6.5.1, feedback on teaching and learning process from all stakeholders of COEM in collected, analysed, and appropriate actions are suggested. It is further discussed in the regular meetings of IQAC. IQAC members suggest remedies on various parameters for the improvement in teaching and learning process.

Two institutional reviews and implementation of teaching learning reforms facilitated by IQAC are:

1. Academic review:

Institute has a system of monitoring of academic activities periodically. There is regular monitoring of academic activities at institute. The review of syllabus status conducted by faculty member is taken by HOD and Principal monthly and at the end of semester (<https://coem.ac.in/pdf/ssr21/1.1.1.pdf>). Based on the result of mid semester examination, slow and fast learners are identified (<https://coem.ac.in/pdf/ssr21/2.2.1.pdf>). Advanced learners are nurtured through participation in various activities like group discussion, presentations, competitions etc. Remedial lectures for weaker students are arranged. Continuous assessment of every student based on various parameters like internal examination, presentations, oral examinations are done on regular basis. From the A.Y 2020-21, rubrics for all continuous assessment are defined and implemented (https://coem.ac.in/Academic/report_format). This process helps students for comprehensive development. Due to the efforts the results from 73.30% in A.Y 2016-17 is improved continuously to 96.10% in A.Y. 2020-21 (<https://coem.ac.in/pdf/ssr21/2.6.3.pdf>).

1. Skill development activities for students, faculty members and staff

A. For holistic development of student:

COEM encourages students to participate in various co-curricular and extra-curricular activities (<https://coem.ac.in/Academic/activities>). Co-curricular activities includes organization of seminars, expert lectures, industrial visits and industrial internship programs.

COEM established NPTEL local chapter which provides opportunity to participate in NPTEL training programs. Various certificates and value added programs on soft-skills, entrepreneurship are arranged for students to enhance life skills among students. To cope-up with recent COVID-19 pandemic, COEM take a step to provide online training programs by establishment of FOSS (Free Open Source Software) centre in association with Spoken Tutorial, IIT Bombay. COEM recently becomes the Nodal centre of Virtual Lab of IIT Bombay. It will enhance the experiential learning among students.

B. Skill development activities for faculty and staff:

Various faculty enrichment activities like organization and participation of FDP, workshops, SSTPs, consultancy services are encouraged. It helps faculties to keep pace with fast-changing world. It ultimately benefits students to increase the awareness about current industrial trends. COEM also has Centre for Distance Engineering Education Program (CDEEP) remote center of IIT, Bombay through which various FDPs and workshops for faculty members are organized.

File Description	Document
Upload any additional information	View Document

6.5.3 Quality assurance initiatives of the institution include:

- 1.Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements**
- 2.Collaborative quality initiatives with other institution(s)**
- 3.Participation in NIRF**
- 4.any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)**

Response: C. 2 of the above

File Description	Document
Upload details of Quality assurance initiatives of the institution	View Document
Upload any additional information	View Document
Paste web link of Annual reports of Institution	View Document

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Measures initiated by the Institution for the promotion of gender equity during the last five years.

Response:

Curriculum prescribed by affiliating university does not include any course on gender equity & sensitization. There for, the institute bridges the gap by organizing various programs on gender equity such as 'Beti Bachao, Beti Padhao', training of self protecting tools, expert lecture by eminent personality and many more giving examples of the women who did great work and contributed for the development of the country in different fields like Social, Political, Education, Sports, Art, Science, Space, Defense, Industry, Business, Banking, Economics, etc. It is a social responsibility of each individual to encourage girls and educating them which is their right. Institute organizes program on this noble work.

Various programs such as Karate: weapons for protecting girls were taken for women empowerment. Women empowerment is the way towards national progress and development. It supports to get women their rights such as,

- Their right to have and to determine choices.
- Their right to have access to opportunities and resources.
- Their right to have the power to control their own lives both within and outside the home.
- Their ability to influence the direction of social change to create a more just social and economic order, nationally and internationally

Safety and Security:

1. The College is having its own premises with security guard available 24X7 also it have compound walls from all the four sides for security

2. The premise of the college is under CCTV surveillance. The area which covers under surveillance is entrance, parking, staff-room, administrative office, library, reading room, and corridor.

3. The Jalgaon City Police Administration also constituted squad which takes round from the college campus.

4. The JilhaPeth Police Station is also very near from the premises of the college.

5. The safety & security of the overall students specially the girl students is very much tight.

Counselling:

The Counselling cell guide the students and the faculty appointed as the class-teacher for each class also guide the students. The faculty also interacts with the girls students in the campus.

1. The cell conducts various activities regarding the importance of gender sensitivity in the campus and the

society.

2. Conscious efforts are taken in the College to create open, free and healthy learning atmosphere.

3. To increase the confidence level in girls, Class Teachers act as Mentors and offer Counselling to students.

4. Cell also creates awareness in students about Scholarships, free ships and various concessions which are available to economically and socially backward girl students.

5. College encourages participation of girls, in various co-curricular and extracurricular activities by sponsoring them for events.

Common Room:

The college is having separate common room for the girl students with chairs, table, mirror, dustbin and drinking water facility.

1. College has separate Ladies common room & facilities provided therein are adequate and are in proportion to the strength of girls.

2. Toilet blocks and urinals are adequate in number with 24 hour availability of water with the help of overhead tanks.

3. Cleanliness and sanitation is maintained.

4. Vending Machine is available for sanitary pads.

File Description	Document
Link for specific facilities provided for women in terms of: a. Safety and security b. Counselling c. Common Rooms d. Day care center for young children e. Any other relevant information	View Document
Link for annual gender sensitization action plan	View Document

7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures

- 1. Solar energy**
- 2. Biogas plant**

- 3. Wheeling to the Grid
- 4. Sensor-based energy conservation
- 5. Use of LED bulbs/ power efficient equipment

Response: C. 2 of the above

File Description	Document
Geotagged Photographs	View Document
Any other relevant information	View Document
Any other relevant information	View Document

7.1.3 Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)

- Solid waste management
- Liquid waste management
- Biomedical waste management
- E-waste management
- Waste recycling system
- Hazardous chemicals and radioactive waste management

Response:

Environmental consciousness and sustainability is ensured by the college through the following waste management methods. Waste management is for environmental protection, human health protection and aesthetic concerns.

1. Solid waste management:

It is a process of collecting, treating and disposing of solid material that is discarded and no more in use. The solid waste is collected every day and processed according to the form of the waste. A part of solid waste management dust-bins are kept at different places in the campus for collection of solid waste. Municipal corporation collects the solid waste on regular basis.

1. Liquid waste management:

The liquid waste is sanitary and mixed sewage. Sewage treatment facility is provided to reuse the waste water. Liquid waste is used for gardening purpose.

2. E-waste management:

E-Waste are computer, electrical, electronic equipments or parts which are damaged or not in use are

loosely discarded. Beyond repair computers result in E-waste and are disposed-off for recycling. Recycling and disposal of E-waste may involve significant risk to health of person in contact and communities. It contains lead, cadmium, and beryllium or brominated flame retardants. Hence great care must be taken to avoid unsafe exposure in recycling operations and leaking of material. Proper E-waste management system is essential in view of public health and our ecosystem.

3.**E-waste** is collected at regular intervals at institute level and handled over to KCE society as per the policy of the society.

4.Biomedical waste:

Biomedical waste is not created as this is the engineering & management college.

5.Hazardous chemicals:

Hazardous chemicals and radioactive waste is not created in this institute.

File Description	Document
Any other relevant information	View Document
Link for Relevant documents like agreements/MoUs with Government and other approved agencies	View Document
Link for Geotagged photographs of the facilities	View Document

7.1.4 Water conservation facilities available in the Institution:

1. Rain water harvesting
2. Borewell /Open well recharge
3. Construction of tanks and bunds
4. Waste water recycling
5. Maintenance of water bodies and distribution system in the campus

Response: B. 3 of the above

File Description	Document
Geotagged photographs / videos of the facilities	View Document
Any other relevant information	View Document
Link for any other relevant information	View Document

7.1.5 Green campus initiatives include:

1. Restricted entry of automobiles
2. Use of Bicycles/ Battery powered vehicles
3. Pedestrian Friendly pathways
4. Ban on use of Plastic
5. Landscaping with trees and plants

Response: A. Any 4 or All of the above

File Description	Document
Various policy documents / decisions circulated for implementation	View Document
Geotagged photos / videos of the facilities	View Document
Any other relevant documents	View Document
Link for any other relevant information	View Document

7.1.6 Quality audits on environment and energy are regularly undertaken by the Institution and any awards received for such green campus initiatives:

1. Green audit
2. Energy audit
3. Environment audit
4. Clean and green campus recognitions / awards
5. Beyond the campus environmental promotion activities

Response: A. Any 4 or all of the above

File Description	Document
Reports on environment and energy audits submitted by the auditing agency	View Document
Certification by the auditing agency	View Document
Certificates of the awards received	View Document
Link for any other relevant information	View Document

7.1.7 The Institution has disabled-friendly, barrier free environment

1. Built environment with ramps/lifts for easy access to classrooms.
2. Divyangjan friendly washrooms
3. Signage including tactile path, lights, display boards and signposts
4. Assistive technology and facilities for Divyangjan accessible website, screen-reading software, mechanized equipment
5. Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading

Response: C. 2 of the above

File Description	Document
Geotagged photographs / videos of the facilities	View Document
Any other relevant information	View Document

7.1.8 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 500 words).

Response:

Harnessing the diverse population of people creates a productive and pleasant environment in which everyone feels valued. It is a great vision to the institutional actions that aim to promote greater inclusion of all from different backgrounds into the institutional structure. With this everyone will reach the potential and maximize knowledge, learning, expertise and career development.

Institute arrange different programs which shows a kind of unity and fill energy, enthusiasm happiness among all. It is a way towards respecting value and belief for our old traditions and remembering them with their importance and dignity. Harmony is created among students by arranging various cultural programs on different festivals such as Ganesh utsav, Dahihandi etc.

The celebration of different festivals with devotion are sign of unity in diversity which is a our culture and pride of our country. It is a way towards communal harmony and respecting traditions & our beliefs which are the heritage, gives a immense pleasure. Therefore, the festivals like Dahihandi, Shri Ganesh Utsav, Dandiya, Garba in Navratri are celebrated together with devotion and joyful environment keeping the memorable moments always. A multi cultural practice is to be fair and equitable treatment by individuals and institution. This expresses the view that society is enriched by preserving, respecting and encouraging cultural diversity. Members from different cultures working together to achieve a common goal and a friendly, co-operative and harmonious environment is found in the institute.

Every year a cultural week is celebrated through which students are encouraged to show culture of various states, religion, region of india as well as various skills such as mehendi ,rangoli , dance etc .They also have various activities such as fun fare, group day, traditional day etc. This cultural week ends by **Antarang** event in which student shows team work by arranging various group dances, dramas, singing competitions and many more cultural events. At end of the event prize distribution is done which includes academics, sports as well as cultural awards.

Marathi rajyabhasha din as well as Hindi rastrabhasha din are celebrated to generate linguistic harmony among students.

Various indoor as well as outdoor sports such as Cricket, Box Cricket, Carron, Badminton etc are arranged to create sportsmen spirit and harmony among various teams.

Students are having uniform dress code in college because of which uniformity is maintained in spite of diversity in their socioeconomic conditions.

File Description	Document
Link for supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View Document

7.1.9 Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens (within 500 words).

Response:

As per section 16 and 15 of Indian Constitution ours is a technical educational Institute imparting education to all sections of society .Equality before law and equal protection of law for all are implemented and followed

Right to life and personal dignity are guaranteed by section 2 of Indian constitution same is the base of follow up for establishing protection of women at workplace as per directive of Honorable Supreme Court of India in Vishakha Judgment same case is functioning accordingly.

According to university syllabus subject related to Basic Human Rights and Cyber Law is included in curriculum because of which basic idea about law is generated among students.

Institute follows the importance of teaching the constitution and its importance in democracy. It contributes a major value and shares to become a responsible citizen of the nation.

The Fundamental rights, Directive principles of state policy and Fundamental duties are sections of the Constitution of India that prescribe the fundamental obligations of the states to the citizens and the duties & rights of the citizens to the state.

The Fundamental rights are defined as the basic human rights of all citizens. The Directive Principles of State Policy are guidelines for the framing of laws by the Government. The Fundamental duties are defined as the moral obligations of all citizens to help promote a spirit of patriotism and to uphold the unity of India.

Every citizen of the nation as a responsibility should have awareness about the Laws, Legislations, rules & regulations those are applicable in different fields or sectors like Education, Industries, Service, Business, Transports & Traffic and other. Knowledge about different traffic rules, regulations and to obey these rules on road while driving, practicing road safety, giving way to pedestrians and make them aware of different traffic related signs, boards, signals.

This is essential not only for personal and society but also for whole Country as it shows the spirit of a responsible person.

Teaching students to practice Code of conduct i.e. to follow rules, regulations, norms in an organization.

Know the organizational culture and working with dedication, quality consciousness and for organizational development.

The constitution is framed for our sake, our safety, our justice, to maintain peace & harmony, to maintain dignity of we all and to uphold our democracy. Hence respecting constitution and obeying of laws are sign of patriotism, unity and a responsible person. It is a step forward for the national progress and a way towards humankind.

Every year the institute organises various activities that inculcate values necessary to render students in to responsible citizens and majority of the students are benefitted by these activities. The details of all such activities is available on the institute's website at [https://coem.ac.in/pdf/ssr21/7.1.9\(a\).pdf](https://coem.ac.in/pdf/ssr21/7.1.9(a).pdf)

File Description	Document
Link for details of activities that inculcate values necessary to render students in to responsible citizens	View Document

7.1.10 The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.

1. The Code of Conduct is displayed on the website
2. There is a committee to monitor adherence to the Code of Conduct
3. Institution organizes professional ethics programmes for students, teachers, administrators and other staff
4. Annual awareness programmes on Code of Conduct are organized

Response: C. 2 of the above

File Description	Document
Details of the monitoring committee composition and minutes of the committee meeting number of programmes organized reports on the various programs etc in support of the claims	View Document
Code of ethics policy document	View Document
Any other relevant information	View Document

7.1.11 Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).

Response:

Institution celebrates various national and international commemorative days such as Republic Day, Independence Day, Women's Day, Teachers Day, Engineers Day, Birth and Death Anniversary of

National Dignitaries etc.

Republic Day, Independence Day and Maharashtra Day

Every year institute celebrates Republic Day and Independence Day with great enthusiasm. Program starts with flag hoisting and follows with various events on patriotic theme. All staff members, students as well as office staff gather together to celebrate the national festival.

Women's Day :

Institute celebrates International Women's Day every year on 8th march. Special Program is organized for girls and female faculty. Women are felicitated for their work in respective field. Various events are organized to create awareness about rights of women in society

Teachers' Day:

Institute celebrates 5th September as Birth Anniversary of Dr. Sarvepalli Radhakrishnan who was a great teacher. Students arrange various events for teachers. Social events which benefit society are also taken on this occasion.

Engineers' Day:

Institute celebrates 15th September as Engineers Day in honour of Bharat Ratna Awardee Mokshagundam Visvesvaraya, who was an eminent engineer.

Various technical events are organised on this day to create awareness about updates in technical field.

Birth and Death Anniversary of National Dignitaries

Institute celebrates Birth and Death Anniversary of National Dignitaries such as Chatrapati Shivaji Maharaj, Dr. Babasaheb Ambedkar Jayanti, Mahatma Gandhi Jayanti etc.

File Description	Document
Link for Geotagged photographs of some of the events	View Document
Link for Annual report of the celebrations and commemorative events for the last five years	View Document

7.2 Best Practices

7.2.1 Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

Response:

1. Title of the practice: Community Support Cell

Goal

The institution is committed to render service to the surrounding society in addition to providing quality technical education. It is achieved by providing infrastructural facility available with institute for different activities when not used for academic purpose the institute is located at the heart of Jalgaon city(District Head Quarter).

The Context

The practice relates to a social activity. As a college is located at heart of the city it is beneficial to the stakeholders coming from different places of the district. College provides the infrastructure for various online and offline examinations and many other society centric activities. The institute executes various centralized online admission process as per directives of the state Government.

The Practice

The external agencies which conducts different competitive examinations gives there requirement to the college. Depending on their requirement and availability of resources on required date college provides the infrastructure and human resource for smooth conduction of examination. Admission process is executed successfully with the help of human resources and infrastructural facilities of the institute. Our Institute also has facilitation center for admission procedure of polytechnic, first year engineering, direct second year engineering as well as MBA. Institute receives handsome amount of money from this activities.

Evidence of Success

All the stakeholders including students and parents were satisfied with the resources and help got from the institute. Till now more than three thousand of students have taken benefit of the resources from the college.

Problem encountered and resources required.

- The institute encountered very few problems while executing this project. The main issue occurred while taking online examination is electricity problem and it is addressed by using D.G. set for whole session.
- Discipline problem at the FC due to rush and it is addressed by appointing more security force as and when required & extended hours working of faculty members.

II. Title of the practice: Eco-friendly campus

Goal

Best practices of institute are anything that has contributed towards institutional objectives & quality improvement. The environmental protection is a part of the institutional goal. Practicing environmental protection and its conservation is the need to save the nature and a way towards prosperity and bright future.

The Context

Alternate Energy initiatives such as some part of power requirement of the College are met by renewable energy sources like Solar energy and the lighting requirement by use of LED bulbs, Installation of Solar Power Panels which leads to power saving.

The Waste management is for environmental protection, human health protection and aesthetic concerns. Energy conservation is the major point kept in focus. Water saving by Installing Drip Irrigation system

The Practice

Teaching students about Environmental protection and to be eco-friendly. Performance improvement, duties & responsibilities, working with dedication and discipline, moral values, loyalty, respecting our traditions, taking care of natural resources, etc.

The institute focuses on e-communication and reduces use of papers and takes initiative for the ban on use of plastic bags that is Plastic free campus. Practicing one day in a week stop vehicles to reduce use of fossil fuels.

Institute encourages students and faculties to follow 'No Vehicle Day' at least one day in a week. On this day nearby students as well as faculties come to collage by walking or using electric vehicle. Students and faculties are also involved in various Green initiatives

Evidence of success

Initiatives taken by the institution to make the campus eco-friendly are Tree Plantation, Water Harvesting, Bio-charring, Bio-composting, Bio-composting.

A major point on environmental protection is Carbon neutrality. Carbon neutrality is a state of net-zero carbon dioxide emissions. This can be achieved by balancing emissions of carbon dioxide with its removal or by eliminating emissions from society; this is an important step towards managing the carbon emissions efficiently and identifying potential for reductions and savings.

Eco friendly celebrations involving use of paper flowers or natural flowers for decoration. Decorate the festival venue with reusable items or biodegradable materials like cloth, paper, decorative plants and leaves, bamboo, etc.

Problem encountered and resources required

Environmental protection is the practice of protecting the natural environment by individuals, organizations and governments. Its objectives are to conserve natural resources and the existing natural environment. Resource refers to all the materials available in our environment which help us to satisfy our needs and wants. Resources can broadly be classified upon their availability — they are classified into renewable and non-renewable resources

File Description	Document
Link for Best practices in the Institutional web site	View Document

7.3 Institutional Distinctiveness

7.3.1 Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Response:

Content within and beyond curriculum through virtual expertise

The institute offers quality teaching through a dedicated team of highly qualified teachers who are concerned with not only the curricular aspect, but also the holistic development of students. Teachers use PPTs, e-notes, video and other ICT tools for teaching. Add-on courses are also offered for skill-development, foreign language and communication-skill development for enhancing employability. A number of case studies, seminars, conferences, workshops, guest lectures by eminent scholars and leading personality from different fields are conducted and a practical based approach adopted to enhance the knowledge and overall development which are very helpful to advanced learning opportunities to the students.

Institute undertakes various activities under NPTEL, Spoken tutorial IIT Bombay for overall development of students. Also institute have, Virtual Lab, C Deep center.

National Programme on Technology Enhanced Learning - NPTEL

In order to educate and prepare students for technical and professional excellence and enable them to have better employment we include NPTEL Courses. NPTEL is associated with industries they design the courses which are helpful to everyone to get relevant knowledge and development of relevant skills of their domain in industry. As their is huge gap between education system and industry requirements many of the students fail to get employment due to lack of skills and practicality which are demanding in industries. Our institute is active SPOC and awarded with Active local chapter. Approximately 300 students per year benefited from the NPTEL course.

Spoken Tutorial:

College is associated with Spoken tutorial IIT BOMBAY which is an NMEICT, MHRD. Govt. Of India initiative to enhance IT/ Software skill of students. These courses are skill oriented and most of the courses mapped with academics. The training focuses on providing computer/software training to the students associated with the institute.

The spoken tutorial project is about teaching and learning a particular FOSS(Free Open Source Software)like C/C++ , Java, Linux, Scilab, LaTeX, PHP & MYSQL Libre Office ,Front Accounting etc. with easy video tool spoken tutorial.

Our courses are simple and easy to follow even for beginner but they also meet the growing needs of learner. Our engaging digital content ensures that learning happens at all level – Basic, Intermediate and advanced. Our mandates side-by-side practice thereby ensuring that learners are actively learning.

The method is active learning on computer systems and very suited for Remote/Distance Education. Teachers and students can master the software courses as per their convenience in the institute and get certificates. UG, PG or Research scholar students even teacher can learn any of the FOSS. The complete training is well organized. Faculties of institute organize their batch of students into groups, who will learn a particular software course for entire semester. Spoken tutorial courses can be mapped with lab courses. Forum help is also provided by Spoken tutorial IIT Bombay

A single student can learn upto 3 different spoken tutorial course during one semester, end of course online tests and certificates are available for those who wish to test their expertise in particular software. These certificates give an edge to students during placement by increasing their employability potential.

Virtual Labs

Virtual Labs is an initiative of Ministry of Education (MoE), Govt. of India, under the National Mission on Education through ICT. **Virtual Lab** is a huge milestone activity of the Nodal Centre that is followed as one of the best practices in interactive teaching-learning and e-content development.

To provide a complete Learning Management System around the Virtual Labs where the students can perform laboratory experiments online in an interactive and engaging manner on a simulator, and seek an improved insight of the fundamentals through simulations, animated demonstrations, lab manual and self-evaluation-pre-test and post-test type of formative assessment. The main Objectives of virtual lab is to enthuse students to conduct experiments by arousing their curiosity. This would help them in learning basic and advanced concepts through remote experimentation and to provide a complete Learning Management System around the Virtual Labs where the students/ teachers can avail the various tools for learning, including additional web-resources, video-lectures, animated demonstrations and self-evaluation.

Virtual lab provides following advantages to students:

- Virtual labs enable students to perform many experiments that are difficult to perform in real laboratories because of the risks.
- Virtual labs help teachers and students save time and effort because they don't need to adhere to certain times to enter the lab, or to move from one place to another.
- Virtual Labs help users keep up with the technological development of the digital age.

- Virtual labs allow students to perform the practical experiments related to the theoretical courses, which helps them absorb the courses.
- Virtual labs help students perform the experiment more than once.
- Virtual labs protect students and teachers from hazards, given there is no direct contact with toxic or radioactive chemicals and there is no handling of explosive devices or electricity.
- Virtual labs provide the convenience of changing the inputs and transactions used in the experiment without worrying about any dangerous effects of these changes.
- Virtual labs allow students to stay in touch with the Internet, which helps them search and gather information during the experiment.
- Virtual labs provide a complete Learning Management System (LMS) around the virtual labs where students can avail the various tools for learning including addition web-resources, videos, animated demonstrations and self-evaluation.

CDEEP Center

College is recognized as one of the nodal remote centre by IIT Bombay where the summer and winter workshops live through Center for Distance Engineering Education Program (CDEEP). The centre is equipped with modern infrastructure and sitting capacity is 60 students. To conduct online seminar by expert faculty member from IIT Bombay and other eminent institute. Around 50 FDPs are conducted by IIT BOMBAY and IIT Kharagpur till date. CDEEP centre is also utilized by different department during pandemic time to offer online internship where student getting knowledge of industrial process and interact with them through skype, Google meet or Zoom. Till date about 500 faculty members and students have benefitted from various workshops and FDP

File Description	Document
Link for appropriate web in the Institutional website	View Document

5. CONCLUSION

Additional Information :

- Apart from above mentioned details, faculty members of CoEM are doing well at local level.
- They are actively involved in various activities, like providing consultancies to local industries, career counseling to underprivileged students at rural areas and creating technical awareness for welfare of society.
- Two faculty members have undergone to foreign languages courses.
- CoEM always supports and encourages faculty members to upgrade their qualification. Presently 09 faculty members of the institute are doing their Ph.D degree.
- Applied for 2F.

Concluding Remarks :

CoEM is committed to professional development of students by providing them a holistic environment. To accomplish the same, along with expert lecturers, skilled based programs, add-on/ value added programs; to inculcate values and ethics various extra-curricular events are regularly organized. CoEM adopts student centric teaching-learning process which is focus on inclusive and participative learning, regular feedback, outcome of teaching-learning process is measured by CO-PO/PSO attainment. Evaluation process is carried out as per the guidelines of affiliated universities, however internal assessment process is made transparent by the implementation of rubrics. For curricular enrichment, CoEM provides virtual expertise to all students and faculty members through online platforms like NPTEL, IIT Bombay Spoken Tutorial, IIT Bombay Virtual Lab, CDEEP remote centre. Academia and industry interaction is strengthen through number of MoUs, which helps student community of this institute to increases awareness about recent trends in industry. Thus, innovative theories, techniques and technologies are embraced among student of the institute to ensure success in changing world.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																				
1.1.3	<p>Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the last five years</p> <ol style="list-style-type: none"> 1. Academic council/BoS of Affiliating university 2. Setting of question papers for UG/PG programs 3. Design and Development of Curriculum for Add on/ certificate/ Diploma Courses 4. Assessment /evaluation process of the affiliating University <p>Answer before DVV Verification : A. All of the above Answer After DVV Verification: A. All of the above</p>																				
1.2.1	<p>Percentage of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented</p> <p>1.2.1.1. Number of Programmes in which CBCS / Elective course system implemented. Answer before DVV Verification : 3 Answer after DVV Verification: 6</p>																				
1.2.2	<p>Number of Add on /Certificate programs offered during the last five years</p> <p>1.2.2.1. How many Add on /Certificate programs are offered within the last 5 years. Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>14</td> <td>9</td> <td>9</td> <td>10</td> <td>2</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>14</td> <td>9</td> <td>9</td> <td>10</td> <td>2</td> </tr> </tbody> </table>	2020-21	2019-20	2018-19	2017-18	2016-17	14	9	9	10	2	2020-21	2019-20	2018-19	2017-18	2016-17	14	9	9	10	2
2020-21	2019-20	2018-19	2017-18	2016-17																	
14	9	9	10	2																	
2020-21	2019-20	2018-19	2017-18	2016-17																	
14	9	9	10	2																	
1.2.3	<p>Average percentage of students enrolled in Certificate/ Add-on programs as against the total number of students during the last five years</p> <p>1.2.3.1. Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>2973</td> <td>345</td> <td>242</td> <td>192</td> <td>50</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p>	2020-21	2019-20	2018-19	2017-18	2016-17	2973	345	242	192	50										
2020-21	2019-20	2018-19	2017-18	2016-17																	
2973	345	242	192	50																	

2020-21	2019-20	2018-19	2017-18	2016-17
475	301	95	54	48

Remark : as per hei

1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years

1.3.2.1. Number of courses that include experiential learning through project work/field work/internship year-wise during last five years

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
10	10	10	6	6

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
19	16	14	10	9

1.3.3 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)

1.3.3.1. Number of students undertaking project work/field work / internships

Answer before DVV Verification : 1103

Answer after DVV Verification: 883

1.4.1 Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders

1) Students

2) Teachers

3) Employers

4) Alumni

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: A. All of the above

1.4.2 Feedback process of the Institution may be classified as follows:

Options:

- 1. Feedback collected, analysed and action taken and feedback available on website**
- 2. Feedback collected, analysed and action has been taken**

- 3. Feedback collected and analysed
- 4. Feedback collected
- 5. Feedback not collected

Answer before DVV Verification : A. Feedback collected, analysed and action taken and feedback available on website

Answer After DVV Verification: A. Feedback collected, analysed and action taken and feedback available on website

2.1.1 **Average Enrolment percentage (Average of last five years)**

2.1.1.1. **Number of students admitted year-wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
1187	1069	863	788	724

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
1194	1063	859	791	710

2.1.1.2. **Number of sanctioned seats year wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
1496	1346	1216	1116	1176

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
1471	1321	1216	1116	1176

2.1.2 **Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (exclusive of supernumerary seats)**

2.1.2.1. Number of actual students admitted from the reserved categories year-wise during the last five years

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
515	489	458	443	454

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
364	313	272	260	270

Remark : 2016-17: 270; 2017-18: 260; 2018-19: 272; 2019-20: 313 and 2020-21: 364

2.3.3 Ratio of students to mentor for academic and other related issues (Data for the latest completed academic year)

2.3.3.1. Number of mentors

Answer before DVV Verification : 47

Answer after DVV Verification: 50

2.4.2 Average percentage of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)

2.4.2.1. Number of full time teachers with *Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt.* year wise during the last five years

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
6	6	4	3	2

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
6	6	4	3	2

2.4.3 Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)

2.4.3.1. Total experience of full-time teachers

Answer before DVV Verification : 429

Answer after DVV Verification: 326

Remark : as per pdf 326 teachers

2.6.3 Average pass percentage of Students during last five years

2.6.3.1. Number of final year students who passed the university examination year-wise during the last five years

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
370	283	161	139	162

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
365	286	166	132	171

2.6.3.2. Number of final year students who appeared for the university examination year-wise during the last five years

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
385	286	209	174	221

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
385	286	209	174	221

Remark : as per hei

3.1.1 Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)

3.1.1.1. Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
0	1.13920	0	0	.31500

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
0	1.14	0	0	0.31

Remark : as per hei

3.1.2 Percentage of teachers recognized as research guides (latest completed academic year)

3.1.2.1. Number of teachers recognized as research guides

Answer before DVV Verification : 2

Answer after DVV Verification: 2

3.1.3 Percentage of departments having Research projects funded by government and non government agencies during the last five years

3.1.3.1. Number of departments having Research projects funded by government and non-government agencies during the last five years

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17

0	4	1	1	1
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Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
0	9	1	1	1

3.1.3.2. Number of departments offering academic programmes

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
5	5	5	5	5

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
5	5	5	5	5

Remark : as per hei

3.2.2 Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years

3.2.2.1. Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year-wise during last five years

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
15	27	11	13	18

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	0	0

Remark : as per hei

3.3.1 Number of Ph.Ds registered per eligible teacher during the last five years

3.3.1.1. How many Ph.Ds registered per eligible teacher within last five years

Answer before DVV Verification : 7

Answer after DVV Verification: 7

3.3.1.2. Number of teachers recognized as guides during the last five years

Answer before DVV Verification : 2

Answer after DVV Verification: 2

3.3.2 Number of research papers per teachers in the Journals notified on UGC website during the

last five years

3.3.2.1. Number of research papers in the Journals notified on UGC website during the last five years.

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
23	31	17	16	11

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
3	11	1	0	0

Remark : as per hei

3.3.3 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

3.3.3.1. Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year-wise during last five years

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
1	1	18	10	11

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
1	0	14	8	6

Remark : as per hei

3.4.2 Number of awards and recognitions received for extension activities from government/ government recognised bodies during the last five years

3.4.2.1. Total number of awards and recognition received for extension activities from Government/ Government recognised bodies year-wise during the last five years.

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
1	4	2	1	0

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
1	4	2	1	0

3.4.3 Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years

3.4.3.1. Number of extension and outreach Programmes conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
1	11	3	3	0

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
2	3	2	1	1

Remark : as per hei

3.4.4 Average percentage of students participating in extension activities at 3.4.3. above during last five years

3.4.4.1. Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year-wise during last five years

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
321	1963	206	421	218

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
181	144	196	102	106

3.5.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year

3.5.1.1. Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year-wise during the last five years

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17

1	2	1	0	0
---	---	---	---	---

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
1	2	1	0	0

3.5.2 Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the last five years

3.5.2.1. Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
5	10	2	10	6

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
2	7	1	3	4

4.1.3 Percentage of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc. (Data for the latest completed academic year)

4.1.3.1. Number of classrooms and seminar halls with ICT facilities

Answer before DVV Verification : 19

Answer after DVV Verification: 10

Remark : as per hei 10

4.1.4 Average percentage of expenditure, excluding salary for infrastructure augmentation during last five years(INR in Lakhs)

4.1.4.1. Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
19.49	33.46	24.50	15.46	48.11

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
19.49	33.46	24.50	15.86	48.11

4.2.2	<p>The institution has subscription for the following e-resources</p> <ol style="list-style-type: none"> 1. e-journals 2. e-ShodhSindhu 3. Shodhganga Membership 4. e-books 5. Databases 6. Remote access to e-resources <p>Answer before DVV Verification : A. Any 4 or more of the above Answer After DVV Verification: A. Any 4 or more of the above</p>																				
4.2.3	<p>Average annual expenditure for purchase of books/e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)</p> <p>4.2.3.1. Annual expenditure of purchase of books/e-books and subscription to journals/e-journals year wise during last five years (INR in Lakhs)</p> <p>Answer before DVV Verification:</p> <table border="1" data-bbox="304 831 1046 965"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>4.74</td> <td>2.66</td> <td>3.45</td> <td>.26</td> <td>3.16</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1" data-bbox="304 1043 1046 1178"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>4.74</td> <td>2.66</td> <td>3.45</td> <td>1.35</td> <td>5.05</td> </tr> </tbody> </table> <p>Remark : as per hei</p>	2020-21	2019-20	2018-19	2017-18	2016-17	4.74	2.66	3.45	.26	3.16	2020-21	2019-20	2018-19	2017-18	2016-17	4.74	2.66	3.45	1.35	5.05
2020-21	2019-20	2018-19	2017-18	2016-17																	
4.74	2.66	3.45	.26	3.16																	
2020-21	2019-20	2018-19	2017-18	2016-17																	
4.74	2.66	3.45	1.35	5.05																	
4.2.4	<p>Percentage per day usage of library by teachers and students (foot falls and login data for online access) during the latest completed academic year</p> <p>4.2.4.1. Number of teachers and students using library per day over last one year Answer before DVV Verification : 20 Answer after DVV Verification: 20</p>																				
4.3.3	<p>Bandwidth of internet connection in the Institution</p> <p>Answer before DVV Verification : A. ?50 MBPS Answer After DVV Verification: A. ?50 MBPS</p>																				
4.4.1	<p>Average percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years(INR in Lakhs)</p> <p>4.4.1.1. Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year-wise during the last five years (INR in lakhs)</p> <p>Answer before DVV Verification:</p>																				

2020-21	2019-20	2018-19	2017-18	2016-17
36.31	66.21	74.14	41.32	56.27

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
36.31	66.21	74.14	41.33	56.28

5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during last five years

5.1.1.1. Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
1055	988	878	574	436

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
905	842	680	235	428

5.1.3 Capacity building and skills enhancement initiatives taken by the institution include the following

1. **Soft skills**
2. **Language and communication skills**
3. **Life skills (Yoga, physical fitness, health and hygiene)**
4. **ICT/computing skills**

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: A. All of the above

5.1.4 Average percentage of students benefitted by guidance for competitive examinations and career counselling offered by the Institution during the last five years

5.1.4.1. Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
0	177	254	281	0

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
0	177	254	281	0

5.1.5 **The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases**

1. **Implementation of guidelines of statutory/regulatory bodies**
2. **Organisation wide awareness and undertakings on policies with zero tolerance**
3. **Mechanisms for submission of online/offline students' grievances**
4. **Timely redressal of the grievances through appropriate committees**

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: A. All of the above

5.2.1 **Average percentage of placement of outgoing students during the last five years**

5.2.1.1. **Number of outgoing students placed year - wise during the last five years.**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
7	56	37	24	40

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
7	56	37	24	40

5.2.2 **Average percentage of students progressing to higher education during the last five years**

5.2.2.1. **Number of outgoing student progression to higher education during last five years**

Answer before DVV Verification : 22

Answer after DVV Verification: 22

5.2.3 **Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: IIT-JAM/CLAT/ NET/SLET/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations, etc.)**

5.2.3.1. **Number of students qualifying in state/ national/ international level examinations (eg: IIT/JAM/ NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations, etc.)) year-wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
02	06	02	0	1

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
02	06	02	0	0

5.2.3.2. Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government examinations) year-wise during last five years

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
13	06	02	0	1

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
13	06	02	0	0

5.3.1 Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter-university/state/national / international level (award for a team event should be counted as one) during the last five years.

5.3.1.1. Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national / international level (award for a team event should be counted as one) year-wise during the last five years.

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
0	1	5	2	0

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
0	1	5	2	0

5.3.3 Average number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions)

5.3.3.1. Number of sports and cultural events/competitions in which students of the Institution participated year-wise during last five years

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
0	10	23	13	1

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
0	10	23	13	1

5.4.2 **Alumni contribution during the last five years (INR in lakhs)**

Answer before DVV Verification : E. <1 Lakhs
 Answer After DVV Verification: E. <1 Lakhs

6.2.3 **Implementation of e-governance in areas of operation**

1. **Administration**
2. **Finance and Accounts**
3. **Student Admission and Support**
4. **Examination**

Answer before DVV Verification : A. All of the above
 Answer After DVV Verification: A. All of the above

6.3.2 **Average percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years**

6.3.2.1. **Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
5	4	2	0	1

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
5	4	2	0	1

6.3.3 **Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years**

6.3.3.1. **Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff year-wise during the last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
4	6	7	5	4

Answer After DVV Verification :

--	--	--	--	--

2020-21	2019-20	2018-19	2017-18	2016-17
4	6	7	5	4

6.3.4 **Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP) during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course).**

6.3.4.1. **Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course year-wise during the last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
46	24	7	7	4

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
47	24	7	8	4

6.5.3 **Quality assurance initiatives of the institution include:**

- 1. Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements**
- 2. Collaborative quality initiatives with other institution(s)**
- 3. Participation in NIRF**
- 4. any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)**

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: C. 2 of the above

Remark : As per hei C. 2 of the above

7.1.2 **The Institution has facilities for alternate sources of energy and energy conservation measures**

- 1. Solar energy**
- 2. Biogas plant**
- 3. Wheeling to the Grid**
- 4. Sensor-based energy conservation**
- 5. Use of LED bulbs/ power efficient equipment**

Answer before DVV Verification : C. 2 of the above

Answer After DVV Verification: C. 2 of the above

Remark : as per hei

7.1.4	<p>Water conservation facilities available in the Institution:</p> <ol style="list-style-type: none"> 1. Rain water harvesting 2. Borewell /Open well recharge 3. Construction of tanks and bunds 4. Waste water recycling 5. Maintenance of water bodies and distribution system in the campus <p>Answer before DVV Verification : B. 3 of the above Answer After DVV Verification: B. 3 of the above Remark : as per hei</p>
7.1.5	<p>Green campus initiatives include:</p> <ol style="list-style-type: none"> 1. Restricted entry of automobiles 2. Use of Bicycles/ Battery powered vehicles 3. Pedestrian Friendly pathways 4. Ban on use of Plastic 5. landscaping with trees and plants <p>Answer before DVV Verification : A. Any 4 or All of the above Answer After DVV Verification: A. Any 4 or All of the above Remark : as per hei</p>
7.1.6	<p>Quality audits on environment and energy are regularly undertaken by the Institution and any awards received for such green campus initiatives:</p> <ol style="list-style-type: none"> 1. Green audit 2. Energy audit 3. Environment audit 4. Clean and green campus recognitions / awards 5. Beyond the campus environmental promotion activities <p>Answer before DVV Verification : A. Any 4 or all of the above Answer After DVV Verification: A. Any 4 or all of the above Remark : as per hei</p>
7.1.7	<p>The Institution has disabled-friendly, barrier free environment</p> <ol style="list-style-type: none"> 1. Built environment with ramps/lifts for easy access to classrooms. 2. Divyangjan friendly washrooms 3. Signage including tactile path, lights, display boards and signposts 4. Assistive technology and facilities for Divyangjan accessible website, screen-reading software, mechanized equipment 5. Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading <p>Answer before DVV Verification : C. 2 of the above</p>

Answer After DVV Verification: C. 2 of the above
Remark : as per hei

7.1.10 **The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.**

1. **The Code of Conduct is displayed on the website**
2. **There is a committee to monitor adherence to the Code of Conduct**
3. **Institution organizes professional ethics programmes for students, teachers, administrators and other staff**
4. **Annual awareness programmes on Code of Conduct are organized**

Answer before DVV Verification : A. All of the above
Answer After DVV Verification: C. 2 of the above
Remark : as per hei C. 2 of the above

2.Extended Profile Deviations

ID	Extended Questions																				
1.1	<p>Number of courses offered by the Institution across all programs during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>10</td> <td>10</td> <td>6</td> <td>6</td> </tr> </tbody> </table> <p>Answer After DVV Verification:</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>578</td> <td>510</td> <td>458</td> <td>378</td> <td>341</td> </tr> </tbody> </table>	2020-21	2019-20	2018-19	2017-18	2016-17	10	10	10	6	6	2020-21	2019-20	2018-19	2017-18	2016-17	578	510	458	378	341
2020-21	2019-20	2018-19	2017-18	2016-17																	
10	10	10	6	6																	
2020-21	2019-20	2018-19	2017-18	2016-17																	
578	510	458	378	341																	
1.2	<p>Number of programs offered year-wise for last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> </tr> </tbody> </table> <p>Answer After DVV Verification:</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>6</td> <td>6</td> <td>6</td> <td>6</td> </tr> </tbody> </table>	2020-21	2019-20	2018-19	2017-18	2016-17	4	4	4	3	3	2020-21	2019-20	2018-19	2017-18	2016-17	10	6	6	6	6
2020-21	2019-20	2018-19	2017-18	2016-17																	
4	4	4	3	3																	
2020-21	2019-20	2018-19	2017-18	2016-17																	
10	6	6	6	6																	
2.1	<p>Number of students year-wise during last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>1187</td> <td>1069</td> <td>863</td> <td>788</td> <td>724</td> </tr> </tbody> </table>	2020-21	2019-20	2018-19	2017-18	2016-17	1187	1069	863	788	724										
2020-21	2019-20	2018-19	2017-18	2016-17																	
1187	1069	863	788	724																	

Answer After DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
1194	1063	859	791	710

2.2 **Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
515	489	458	443	454

Answer After DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
797	729	627	613	539

2.3 **Number of outgoing / final year students year-wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
406	298	216	197	256

Answer After DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
400	293	212	192	245

3.1 **Number of full time teachers year-wise during the last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
63	71	59	68	65

Answer After DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
63	71	59	68	65

3.2 **Number of sanctioned posts year-wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
60	77	57	57	60

Answer After DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
60	77	57	57	60

4.1 **Total number of classrooms and seminar halls**

Answer before DVV Verification : 19

Answer after DVV Verification : 19

4.2 **Total Expenditure excluding salary year-wise during last five years (INR in Lakhs)**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
98.77	133	148.01	97.93	147.29

Answer After DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
79.40	114.00	125.36	76.28	128.01

4.3 **Number of Computers**

Answer before DVV Verification : 404

Answer after DVV Verification : 482