



# **SELF STUDY REPORT**

**FOR**

**1<sup>st</sup> CYCLE OF ACCREDITATION**

## **EXCELSSIOR EDUCATION SOCIETY'S K.C. COLLEGE OF ENGINEERING AND MANAGEMENT STUDIES AND RESEARCH**

**MITH BUNDER ROAD, NEAR SADGURU GARDEN, KOPRI**

**400603**

**kccemsr.edu.in**

**SSR SUBMITTED DATE: 07-02-2019**

**Submitted To**

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

**BANGALORE**

**February 2019**

# 1. EXECUTIVE SUMMARY

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## 1.1 INTRODUCTION

Excelssior Education Society is an educational and charitable trust established in the year 1978. The society started K.C. College of Engineering and Management Studies and Research, a Punjabi Linguistic Minority Institute in 2001. The institute is approved by AICTE, New Delhi, Directorate of Technical Education and is affiliated to the University of Mumbai. The institute is also ISO 9001:2015 certified.

In the course of 18 years, the institution has been striving for continuous improvement in quality education. Cells like Entrepreneurship cell and various committees like student professional bodies of Computer Society of India (CSI), Institute of Electronics and Telecommunication Engineers (IETE), Indian Society of Technical Education (ISTE) etc., help connect students professionally. Student council handles student affairs and helps in conducting cultural, technical and sports events. Our institute nurtures students with social and ethical responsibilities with the help of various activities organized through committees like National Service Scheme (NSS), Youth Red Cross (YRC) and Rotract Club.

It is the only institution in Thane to adopt a village under Sansad Adarsh Gram Yojana (SAGY) Scheme of AICTE with a motto “Developed Village – Developed Nation”. The program was launched by the Prime Minister of India.

The institute has undertaken green initiatives like installation of solar panel as a part of renewable energy generation, wet waste management through compost pit and a lush green cover of 241 trees and lawns.

Institute has won many accolades in the field of academics and social outreach as follows:

1. “Best Engineering College with Academic Excellence” by Asian Education Summit and Awards.
2. “Midday Excellence Award in Engineering and Management Education”, Thane Beyond.
3. “Great Achievers Award for Education Excellence” held at Bangkok, Thailand.
4. Our institute is listed in top 51 engineering institutes to look out for in India Today – Aspire.
5. “Swachatam Vidyalaya Pramanpatra – 2018” by Thane Municipal Corporation, Thane.
6. NEC award; National Entrepreneur Awareness Camp by IIT Bombay.
7. Appreciation award to YRC for Gender sensitivity.

8. Rotaract Club received four awards: Certificate of appreciation; Crown of the quarter 3 in the professional development avenue; Best promising club; and Certificate of Honour.

### **Vision**

To be an organization with potential for excellence in engineering and management for the advancement of society and human kind.

### **Mission**

- To excel in academics, practical engineering, management and to commence research endeavors.
- To prepare students for future opportunities.
- To nurture students with social and ethical responsibilities.

## 1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

### Institutional Strength

1. Serene ambience and the proximity to railway station facilitates learners to concentrate on studies.
2. Involvement of students in academic and extra-curricular activity through various events throughout the year inculcating team building and managerial skills amongst them.
3. Academic results are overall good maintaining average percentage of more than 90% for final year students.
4. Above optimum student to teacher ratio.
5. Active entrepreneurship cell and in process to incubate start-ups.
6. Wi-fi enabled campus.
7. Around 80% of women employees.
8. Inducing social awareness and responsibility amongst students through social outreach programmes through registered organization of NSS, YRC and Rotaract.
9. Adopted a village under Sansad Adarsh Gram Yojana (SAGY) and working towards holistic development of villagers.
10. Commendable number of publications by final year students.
11. Presence of active student chapter of various professional student bodies.
12. Book bank facility for reserved and backward category students and NPTEL local chapter.

### Institutional Weakness

1. Being an affiliated institute, less academic flexibility.
2. Less interest of students towards engineering and management.
3. Less interaction with industry and research organization as per our target.
4. Non-availability of faculties with Ph.D.
5. Shortage of patents and research grants.

### Institutional Opportunity

1. Strong internship program for students.
2. Improving alumni connect for enhancing teaching learning process and campus placement.
3. Enhancing research ecosystem of the institute as many faculty members are pursuing Ph.D.
4. Promote research and development activity through research grants and consultancy.
5. Strengthen participation of students in online courses.
6. Possibility of MOUs and collaboration with industries and institutes of national importance.

## **Institutional Challenge**

1. Being a private institution student fees is the only resource for meeting the ever increasing cost of running the institute and programmes.
2. Market trend of falling admission in the engineering and technology courses.
3. Meeting the changing level of aspirations of students / parents / stakeholders.

## **1.3 CRITERIA WISE SUMMARY**

### **Curricular Aspects**

The Institute offers Post Graduate and Under Graduate degree programmes and follows the curriculum offered by Mumbai University. Institute has strong focus on Outcome Based Education (OBE), Course Outcomes (CO), Programme Educational Objectives (PEOs) and Programme Outcomes (POs) and is in consistence with the vision and mission of the institute. Successful teaching and learning depends on curriculum. Academic calendar is prepared and followed for technical as well as extracurricular activities in Institute. To enrich our student with emerging trends and industry needs, different guest lectures, workshops, certification courses, seminars, industrial visits and extra-curricular activities events are conducted to develop employability and entrepreneurship skills of the students.

Holistic development of students is the main purpose of curriculum. The institute inculcates the human values, professional ethics, organizational behavior etc. amongst the students and sensitizing them towards different issues like environment, gender etc

To make our students competent professional as a demand and expectations from the corporate sector, skill enhancements is done by offering different value added courses.

Institute has its own effective feedback mechanism. It has the proper mechanism to obtain feedback from students and stakeholders on curriculum as well as on different activities organized in campus.

Results of OBE and different feedback serve as input for constant improvement in curriculum.

### **Teaching-learning and Evaluation**

Outcome based education is the need of 21st century where teacher plays the role of facilitator. Faculty keeps on upgrading their knowledge and skills by attending faculty development program, STTPs, national and international conferences for their continuous professional development to handle the program of study effectively. Majority of the faculty members have successfully completed “Soft skill Development Programs” and other technical courses conducted by NPTEL. The recruitment of faculties is done according to The AICTE and UGC norms.

The admissions process of the institution is in accordance of state government norms (Central Admission Process). Considering varied backgrounds and different learning abilities of the students, student centric methods like field trips, case-studies, project-based-learning and group learning are adopted. In teaching learning process basic cognitive levels are achieved by different activities like video lectures, industrial visit,

quiz and group discussion. Higher cognitive levels are accomplished by experiential and participative learning methods and by effective use of ICT resources.

The institution follows guidelines of the Mumbai University for the internal evaluation. There is complete transparency in the internal assessment. Orientation program is conducted at the beginning of the semester and the entire schedule of the activities as per academic calendar is conveyed to the students. Rubrics for assignments and experiments are displayed on the notice board of each lab.

Course outcome/Lab outcome are conveyed to the students of all the departments in the first lecture during syllabus discussion and also during the course modules wherever applicable.

Students' subject knowledge is further strengthened by relevant guest lectures, workshops, etc.

Institute provides a platform for all students to enhance their technical skills and expand their knowledge in all domains.

### **Research, Innovations and Extension**

The institute has taken initiatives to develop and promote research culture. In this direction institute has developed E-cell (Entrepreneurship cell) and in process to create IIARL (Ideation Innovation Automation and Research Lab) with objectives to undertake research activities and trainings of budding entrepreneurs. The institute has established digital library resources, magazines and journals to encourage research activities. To ensure the effective conducive research environment, the institute promotes faculty members and students to organize and attend Faculty Development Programs, Seminars, Workshops, and Short Term Training Programs. Dr. Hansraj Guhilot has received Dr. APJ Abdul Kalam lifetime achievement award for remarkable contribution in the field of teaching, research and publications. Research papers have been published in UGC approved and reputed journals by faculty members around the year. To create awareness about Intellectual Property Rights (IPR), guidance workshops were organized by eminent speakers. The institute takes the pride to encourage extension activities through the NSS, YRC, Rotaract Club, Eco Club and Women Development Committee. Technical, Cultural, Social and Educational programs are conducted by faculty members and students in adopted village Pimpri and other areas. The institute takes keen interest in social extension programs to sensitize students and provide solutions to the need of society.

### **Infrastructure and Learning Resources**

The institute follows the norms laid down by All India Council for Technical Education (AICTE) for creating and enhancing the infrastructure with latest information technology to facilitate effective teaching and learning. The institute has well-structured IT Infrastructure with LAN Facility. Campus is Wi-Fi enabled with uninterrupted power supply. All the classrooms and seminar halls are ICT enabled which provide proper environment for students to study. The institute has complete lab setup with latest equipment as required by the curriculum. Institute has exclusive language lab to enhance the overall personality development. The institute has faculty rooms that is helpful for the faculty to contribute effectively towards the teaching learning process as well as remain approachable to student. To promote green energy, solar panels are installed in the campus. Security surveillance system is installed all over the campus, purified water facility, canteen facility is provided in the campus. To encourage students Entrepreneurship skill there is a separate E-cell laboratory with advanced equipment.

Sport and cultural activities are essential to student life. The institute has adequate facilities for sports i.e. indoor and outdoor games. The institution provides gymnasium facility for fitness of the students. To de-stress, relax, feel healthier and more energetic the institution frequently organizes yoga sessions for students and staff. The annual intercollegiate cultural festival Reflexionz is organized by the institution.

Library is automated using Integrated Library Management System. To enhance the usage of library resources, library orientation program for all students is arranged every year. Library has IIT library membership, IET membership, Shodhsindhu membership, JGATE membership, National Digital Library. Library provides book bank facility for EBC, SC/ST and Topper students.

The institute always ensures the allocation of adequate financial resources for maintenance and upkeep of major facilities for academic, physical and support facilities.

### **Student Support and Progression**

The institute supports and mentors students in various ways. The institute provides support through scholarships along with Government's scholarships and freeships. Institute rewards meritorious student, Best Sportsperson, All-rounder and exemplary Performer.

Institute provides guidance for Competitive Examinations, Career Counselling, Soft Skill Development, Remedial Coaching, Bridge Courses, Yoga and Meditation, Personal counselling for overall development of student. Competitive examinations and career counselling guidance provided by the institute has given benefits to the students in their career endeavours. There is transparent mechanism for timely redressal of student grievances including sexual harassment and ragging. The institute help students for placements and higher studies. The institute's Students' Council is an active body consists of General Secretary, Cultural Secretary, Sports Secretary and other member. Student activities are organized under the leadership of the selected student representatives. From current year student council is formed using election. The institute has organized numerous sports/cultural activities during last five years. For holistic development, students are encouraged to participate in technical as well as social outreach program.

Training and placement cell provides pre-placement guidance to the students for placement activities. The cell coordinates internship and placement activities.

Institute conducts alumni meets every year; they contribute through financial and non-financial means. The students are benefited by getting career mentors, expertise for the projects, opportunities to access professional developments through alumni meet.

### **Governance, Leadership and Management**

Vision and mission of the institute has evolved with comprehensive decision making. All the stake holders are involved in the vision, mission and values exercise. The strategic and financial planning of the institution is handled by principal in consultation with management. The institute has Governing Council, for its perspective, policy, financial planning. The academic and administrative activities of the institute are managed by the Principal. The institution has a well defined organogram which clearly defines the roles and functions of staff. The institute practices participative approach at all levels with delegation of powers and decentralization. The effectiveness of the various bodies, cells, committees etc is evident from the minutes of meetings and

implementation of the proposed resolutions / recommendations. The institute encourages its staff to participate in various conferences/ training programs. The institute conducts professional development and administrative training programs. The institution has performance appraisal system. The college conducts regular internal and external financial audit and prepares an annual budget estimate. Internal Quality Assurance Cell (IQAC) has been formed in 2017 and is functional in overseeing quality matters but quality initiatives have been taken by institute right from its inception.

### **Institutional Values and Best Practices**

Management, students and faculty have taken many initiatives to follow best practices and innovations. Women Development Committee ensures to empower girl students to enhance understanding of women's issues and to make the institute campus a safe place for women students and staff. Waste management initiatives have been taken by ECO club of institute with the tagline "Excel the Greener way". The club has joined hands with ECOROX (NGO) to inculcate environment consciousness. Compost pit was installed by the institute for solid waste management. The institute has donated 400 kg E-waste material for recycling purpose with an association of ECOROX and E-incarnation organization. The club has taken initiatives of tree plantation in neighborhood community on 8 March and 5 June, 2018 to reduce air pollution. Tree plantation by the guest is followed as a best practice to increase environmental awareness. The institute has developed 2 lawns sprawling over an area of 1161 sq. mts. with various varieties of plants. The institute has installed alternative green energy resource in the form of 80 KW grid connected solar power plant on the rooftop in order to take the benefits of solar energy. The institute also plays a leading role to address locational advantages to help local community. For the promotion of universal values, national values, human values, national integration, communal harmony, many activities like cultural skit competition, extempore essay competition and festivals were celebrated. Management takes keen interest and promotes lot of best practices and innovation in the campus. As per the mission of institute to nurture students with social and ethical responsibilities, many cultural and social events are hosted from time to time. All the national heroes are fondly remembered on their birth anniversaries and are saluted with respect on their death anniversaries.

## 2. PROFILE

### 2.1 BASIC INFORMATION

Name and Address of the College	
Name	EXCELSSIOR EDUCATION SOCIETY'S K.C. COLLEGE OF ENGINEERING AND MANAGEMENT STUDIES AND RESEARCH
Address	Mith Bunder Road, Near Sadguru Garden, Kopri
City	THANE EAST
State	Maharashtra
Pin	400603
Website	<a href="http://kccemsr.edu.in">kccemsr.edu.in</a>

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Hansraj Guhilot	022-25327100	9867055566	022-	principal@kccemsr.edu.in
IQAC Coordinator	Arundhati Chakrabarti	022-25326062	9028012321	022-25326496	arundhati.chakrabarti@kccemsr.edu.in

Status of the Institution	
Institution Status	Private

Type of Institution	
By Gender	Co-education
By Shift	Regular



<b>Recognized Minority institution</b>	
If it is a recognized minority institution	Yes <a href="#">Minority certificate.pdf</a>
If Yes, Specify minority status	
Religious	
Linguistic	Punjabi
Any Other	

<b>Establishment Details</b>				
Date of establishment of the college	30-06-2001			
<b>University to which the college is affiliated/ or which governs the college (if it is a constituent college)</b>				
<b>State</b>	<b>University name</b>	<b>Document</b>		
Maharashtra	University of Mumbai	<a href="#">View Document</a>		
<b>Details of UGC recognition</b>				
<b>Under Section</b>	<b>Date</b>	<b>View Document</b>		
2f of UGC				
12B of UGC				
<b>Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)</b>				
<b>Statutory Regulatory Authority</b>	<b>Recognition/Approval details Institution/Department programme</b>	<b>Day,Month and year(dd-mm-yyyy)</b>	<b>Validity in months</b>	<b>Remarks</b>
AICTE	<a href="#">View Document</a>	10-04-2018	12	

<b>Details of autonomy</b>	
Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	No

<b>Recognitions</b>	
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

<b>Location and Area of Campus</b>				
<b>Campus Type</b>	<b>Address</b>	<b>Location*</b>	<b>Campus Area in Acres</b>	<b>Built up Area in sq.mts.</b>
Main campus area	Mith Bunder Road, Near Sadguru Garden, Kopri	Urban	2.5	8597

## 2.2 ACADEMIC INFORMATION

<b>Details of Programmes Offered by the College (Give Data for Current Academic year)</b>						
<b>Programme Level</b>	<b>Name of Programme/ Course</b>	<b>Duration in Months</b>	<b>Entry Qualification</b>	<b>Medium of Instruction</b>	<b>Sanctioned Strength</b>	<b>No.of Students Admitted</b>
UG	BE,Department Of Information Technology	48	HSc or Diploma	English	60	60
UG	BE,Department Of Computer Engineering	48	HSc or Diploma	English	90	90
UG	BE,Department Of Electronics And Telecommunication Engineering	48	HSc or Diploma	English	90	46
PG	MMS,Master In Management Studies	24	Any Graduation	English	60	51

### Position Details of Faculty & Staff in the College

**Self Study Report of EXCELSSIOR EDUCATION SOCIETY'S K.C. COLLEGE OF ENGINEERING AND  
MANAGEMENT STUDIES AND RESEARCH**

<b>Teaching Faculty</b>												
	<b>Professor</b>				<b>Associate Professor</b>				<b>Assistant Professor</b>			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	6				11				63			
Recruited	1	0	0	1	0	0	0	0	12	48	0	60
Yet to Recruit	5				11				3			
Sanctioned by the Management/Society or Other Authorized Bodies	2				0				20			
Recruited	2	0	0	2	0	0	0	0	5	15	0	20
Yet to Recruit	0				0				0			

<b>Non-Teaching Staff</b>				
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
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				17
Recruited	8	9	0	17
Yet to Recruit				0

<b>Technical Staff</b>				
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
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				16
Recruited	11	5	0	16
Yet to Recruit				0

#### Qualification Details of the Teaching Staff

<b>Permanent Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	1	0	0	0	0	0	0	2	0	3
M.Phil.	0	0	0	0	0	0	0	2	0	2
PG	0	0	0	0	0	0	12	44	0	56

<b>Temporary Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	2	0	0	0	0	0	1	1	0	4
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	4	14	0	18

<b>Part Time Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	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

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

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

Self Study Report of EXCELSSIOR EDUCATION SOCIETY'S K.C. COLLEGE OF ENGINEERING AND  
MANAGEMENT STUDIES AND RESEARCH

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	147	1	0	0	148
	Female	50	1	0	0	51
	Others	0	0	0	0	0
PG	Male	26	1	0	0	27
	Female	24	0	0	0	24
	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	14	17	7	5
	Female	12	7	6	7
	Others	0	0	0	0
ST	Male	0	0	0	2
	Female	0	0	0	0
	Others	0	0	0	0
OBC	Male	9	11	6	4
	Female	8	6	0	2
	Others	0	0	0	0
General	Male	125	120	77	94
	Female	73	57	53	38
	Others	0	0	0	0
Others	Male	12	16	11	6
	Female	7	3	2	5
	Others	0	0	0	0
<b>Total</b>		<b>260</b>	<b>237</b>	<b>162</b>	<b>163</b>

### 3. Extended Profile

#### 3.1 Program

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

Response: 1922

File Description	Document
Institutional Data in Prescribed Format	<a href="#">View Document</a>

Number of programs offered year-wise for last five years

2017-18	2016-17	2015-16	2014-15	2013-14
4	4	5	5	5

#### 3.2 Students

Number of students year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1111	1180	1230	1289	1239

File Description	Document
Institutional Data in Prescribed Format	<a href="#">View Document</a>

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

2017-18	2016-17	2015-16	2014-15	2013-14
1	1	1	1	1

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

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

2017-18	2016-17	2015-16	2014-15	2013-14
290	301	345	339	334

File Description	Document
Institutional Data in Prescribed Format	<a href="#">View Document</a>

### 3.3 Teachers

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

2017-18	2016-17	2015-16	2014-15	2013-14
83	84	88	88	88

  

File Description	Document
Institutional Data in Prescribed Format	<a href="#">View Document</a>

#### Number of sanctioned posts year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
80	84	88	88	88

  

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

### 3.4 Institution

#### Total number of classrooms and seminar halls

**Response: 19**

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

2017-18	2016-17	2015-16	2014-15	2013-14
798.59	827.25	700.86	583.58	1468.37

#### Number of computers

**Response: 398**



## 4. Quality Indicator Framework(QIF)

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### Criterion 1 - Curricular Aspects

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#### 1.1 Curricular Planning and Implementation

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

###### Response:

The academic year begins as per the schedule guidelines given by University of Mumbai. At the end of the working semester, subject distribution of forthcoming semester is done so that the staff is aware of their subject for the upcoming semester. The academic calendar is prepared which includes academic and assessment schedule, as well as sports and cultural events. Head of Departments monitor teaching learning & evaluation schedules of the institution.

Orientation programs are conducted for newly admitted first year and lateral entry second year students to make them aware of all academic processes.

Head of Departments conduct meeting with the faculty before commencement of the semester to make the faculty aware of their responsibilities. Regular meetings are conducted to review teaching learning, academic progress of students, students' grievances and suitable remedial actions are taken as per the requirement.

The semester wise timetables are prepared well in advance. Students are made aware of timetable, academic calendar & roll list by displaying on the notice boards before start of the semester. All the information about Continuous Assessment Report & Rubrics is provided to the students at the beginning of the semester. To enhance e-learning amongst students, institute uses learning management system (MOODLE).

Faculty prepares a course file, lab manual, & schedule for various activities. The same copies are submitted to the Head of Departments. Lectures & practical planning & implementation are regularly monitored by the Head of Departments. The evaluation of students is done through i) Internal Assessment test (I & II), End Semester Theory Examination ii) Oral/Practical Examinations and iii) Quiz, Presentation, Mini-Projects, Assignments, etc.

The time schedule of evaluation process is announced well in advance. Evaluation is done by the external and internal examiners.

Theory paper evaluation for college and university examination is done by approved faculty members.

Academic audit is conducted by departmental committee in every semester. To support overall development and growth of students, mentoring system is implemented. Regular one to one meetings with mentees are conducted and their queries/ problems are addressed and solved by mentors after consultation with respective Head of Departments.

To provide exposure to work experience, students are encouraged to undertake internship. Institute helps

them to find suitable internship program by coordinating with Human Resource Department of various organizations.

Regular feedbacks are taken from students personally or online. Feedbacks are analyzed and suitable actions are taken.

At the end of third year semester examination, departmental Project coordinator invites the project titles depends on society, research, industry, and institute related problems. At the start of final year, a panel reviews these topics to finalize the project title. Each group has to report to their respective guide every week and maintain the weekly report. At the end of the semester, student group will prepare the project report. This will be reviewed by External Examiner appointed by University.

File Description	Document
Any additional information	<a href="#">View Document</a>

### 1.1.2 Number of certificate/diploma program introduced during the last five years

**Response:** 40

#### 1.1.2.1 Number of certificate/diploma programs introduced year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
13	4	7	7	9

File Description	Document
Minutes of relevant Academic Council/BOS meetings	<a href="#">View Document</a>
Details of the certificate/Diploma programs	<a href="#">View Document</a>

### 1.1.3 Percentage of participation of full time teachers in various bodies of the Universities/ Autonomous Colleges/ Other Colleges, such as BoS and Academic Council during the last five years

**Response:** 13.92

1.1.3.1 Number of teachers participating in various bodies of the Institution, such as BoS and Academic Council year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
3	4	1	2	2

File Description	Document
Details of participation of teachers in various bodies	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 1.2 Academic Flexibility

<p><b>1.2.1 Percentage of new Courses introduced out of the total number of courses across all Programs offered during last five years</b></p> <p><b>Response:</b> 33.61</p>	
<p>1.2.1.1 How many new courses are introduced within the last five years</p> <p>Response: 646</p>	
File Description	Document
Minutes of relevant Academic Council/BOS meetings.	<a href="#">View Document</a>
Details of the new courses introduced	<a href="#">View Document</a>

<p><b>1.2.2 Percentage of programs in which Choice Based Credit System (CBCS)/Elective course system has been implemented</b></p> <p><b>Response:</b> 100</p>	
<p>1.2.2.1 Number of programs in which CBCS/ Elective course system implemented.</p> <p>Response: 4</p>	
File Description	Document
Name of the programs in which CBCS is implemented	<a href="#">View Document</a>
Minutes of relevant Academic Council/BOS meetings.	<a href="#">View Document</a>

<p><b>1.2.3 Average percentage of students enrolled in subject related Certificate/ Diploma programs/Add-on programs as against the total number of students during the last five years</b></p>
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**Response:** 32.61

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

2017-18	2016-17	2015-16	2014-15	2013-14
565	338	246	350	451

File Description	Document
Details of the students enrolled in Subjects related to certificate/Diploma/Add-on programs	<a href="#">View Document</a>

### 1.3 Curriculum Enrichment

#### 1.3.1 Institution integrates cross- cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum

**Response:**

**Environmental science & Professional Ethics** also referred to as an interdisciplinary field because it incorporates information and ideas from multiple disciplines. To foster & create awareness about the Environment & Sustainability Human values & Professional Ethics the curriculum has many courses. Some of them are as follows:

- **Environmental Studies** (First Year Engineering Semester-II)

The course contains significance of environment by means of classroom teaching & its practical relevance with field work. Rising populations, global warming & growing pollution with higher standards of living put increasing demands on our & this is why the dedicated of **environmental science** is so important. This course makes the students well equipped & organized about how & what an engineer can do for the Mother Earth. The institute takes care to inculcate the objectives of Environmental studies through some activities carried out by students:

First Year students revamped the garden area with colored old barks & tree trunks. They used the trunk to plant new plants & sow seeds on the same.

To mark the “Swacch Bharat Abhiyaan” camping on 2nd October they cleaned the garden area & painted the stones with saying such as “Save Trees” “Plant Trees”.

- **Business & Professional Ethics** (Third Year Engineering Semester-V)

Ethical necessities in the modern business environment are getting more prominent. Good ethical practice and professional behavior are expected in all forms of business activities. honest, impartial, fair, and must

do everything with equity. must perform under a standard of behavior that requires adherence to the highest principles of ethical conduct.

Gender: Women empowerment is a key issue in today's world. The institute has constituted various committees such as Women Development Committee, Women Redressal Committee and Internal Complaint Committee. These committees are formed to promote gender equity and also deal with related issues of safety and security of girl students and ladies staff. Counselling of girl students is also done. No discrimination of students is done in class rooms, in labs, in allocation of projects and mini-projects and also in various posts of departmental student's forums. The entire college activity functions with co-existence and performance of all the students, without any discrimination.

File Description	Document
Link for Additional Information	<a href="#">View Document</a>

### 1.3.2 Number of value added courses imparting transferable and life skills offered during the last five years

**Response:** 8

1.3.2.1 Number of value-added courses imparting transferable and life skills offered during the last five years

Response: 8

File Description	Document
Details of the value-added courses imparting transferable and life skills	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 1.3.3 Percentage of students undertaking field projects / internships

**Response:** 10.26

1.3.3.1 Number of students undertaking field projects or internships

Response: 114

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

## 1.4 Feedback System

**1.4.1 Structured feedback received from 1) Students, 2) Teachers, 3) Employers, 4) Alumni and**

**5)Parents for design and review of syllabus-Semester wise/ year-wise**

**A.Any 4 of the above**

**B.Any 3 of the above**

**C. Any 2 of the above**

**D. Any 1 of the above**

**Response:** A.Any 4 of the above

<b>File Description</b>	<b>Document</b>
Any additional information	<a href="#">View Document</a>
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	<a href="#">View Document</a>

**1.4.2 Feedback processes of the institution may be classified as follows:**

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

**B. Feedback collected, analysed and action has been taken**

**C. Feedback collected and analysed**

**D. Feedback collected**

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

<b>File Description</b>	<b>Document</b>
URL for feedback report	<a href="#">View Document</a>

## Criterion 2 - Teaching-learning and Evaluation

### 2.1 Student Enrollment and Profile

#### 2.1.1 Average percentage of students from other States and Countries during the last five years

**Response:** 0.63

##### 2.1.1.1 Number of students from other states and countries year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
12	13	8	4	0

File Description	Document
List of students (other states and countries)	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>

#### 2.1.2 Average Enrollment percentage (Average of last five years)

**Response:** 57.52

##### 2.1.2.1 Number of students admitted year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
260	237	162	163	114

##### 2.1.2.2 Number of sanctioned seats year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
300	300	360	360	360

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

#### 2.1.3 Average percentage of seats filled against seats reserved for various categories as per applicable reservation policy during the last five years

**Response: 0**

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

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 2.2 Catering to Student Diversity

**2.2.1 The institution assesses the learning levels of the students, after admission and organises special programs for advanced learners and slow learners**

**Response:**

Institute takes effort to serve the students of different learning abilities. It has a mechanism in place for continuous monitoring the progress of the students through lecture and practical attendance, regular examinations, participation in departmental and institutional activities.

Based on the performance of XII th and Entrance Examination, the learning level of student at entry level i.e. at First year level is calculated and for identification of learning level at higher semester (i.e. Second Year, Third Year, Final Year) the subject performance of the student is considered.

Faculty takes efforts to improve the performance of slow learner in following ways:

- Repetition helps make a concept more concrete.
- Extra remedial classes were arranged in which lessons were explained in simplified ways.
- Extra practice sessions of practical were given to students for better understanding.
- Slow learners are encouraged to participate in the activities in which the student can experience success and keep them connected, like Group discussion, Debate, etc.
- Tutoring - This helps fill in gaps in concept understanding and it helps a student connect with the subject.
- Individual attention has been given to academically needy.



- Self study materials were provided to clear students' basic concepts.
- Useful questions were provided to the students.
- Complex topics were explained with video lectures.
- During tutorials group of students are given a problem to solve and present on the board to encourage active learning.

For advanced learners:-

- The advanced learners are advised and guided to refer online resources and undertake advanced online courses available on NPTEL etc.
- The college encourages them to participate in national level project competition such as GMRT, Hackathon, Avishkaar, e-Yantra etc.
- Peer groups of different levels of students were prepared to inculcate competitive spirit amongst them with complex contents from syllabus.
- Expert lectures of different subjects were arranged by guiding them about higher education and overseas education.

During tutorials group of students are given a problem of higher cognitive level to solve.

File Description	Document
Link for Additional Information	<a href="#">View Document</a>

### 2.2.2 Student - Full time teacher ratio

**Response:** 13.39

### 2.2.3 Percentage of differently abled students (Divyangjan) on rolls

**Response:** 0

#### 2.2.3.1 Number of differently abled students on rolls

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

## 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:**

Outcome based education is the need of 21st century where teacher plays the role of facilitator. Student centric methods like field trips, case-studies, project-based-learning and group learning methods are adopted. In teaching learning process basic cognitive levels (like remembering, understanding) are achieved by different activities like Video lectures, demonstrations, Industrial visit, quiz and Group discussion. Higher cognitive levels (like apply, analyze, evaluate, design) are accomplished by Mini Project, Internship Training.

To enhance teaching learning faculty use various student centric methods such as experiential learning, participative learning and problem solving methodologies as follows:

**1. Experiential learning:** Experiential learning is a method of educating which is based on the idea that learning is a process whereby knowledge is created through transformation of experience. The experience can be acquired outside of the traditional academic classroom teaching .To impart experiential learning following methods are used.

**Final Year projects, Mini projects** are given to the students where students apply the knowledge and skills learned from the courses studied to solve practical problem. Society and institute related problems are identified and few of them are converted to final year projects.

**Field trips/ Industry visits** Industry visits are arranged to make students aware about the current trends in Engineering processes and technologies.

**Entrepreneurship cell** helps to inculcate new ideas into the Young minds and build them up into a successful Entrepreneur.

**Workshops** are conducted by experts from academia and industry to improvise the knowledge as well as students get hands on experience.

**2. Participative learning:** Students are motivated to participate in inter and Intra collegiate technical activities. The events include technical paper presentation, RoBo race, Coding Competition. Students are encouraged to participate different project competitions like Avishkar, GMRT, Zee24,e-Yantra, Hackathon inter collegiate competitions etc. Most of the students present their project papers in National/International conferences.

**3. Problem solving methodologies:** Many problem solving activities are organized in the technical festival of the college (DETROIX) to enhance students critical thinking like technical quiz, circuit mounting etc. Students are encouraged to participate in Smart India Hackathon which is a nationwide initiative to provide students a platform to solve some of pressing problems.

File Description	Document
Link for Additional Information	<a href="#">View Document</a>

**2.3.2 Percentage of teachers using ICT for effective teaching with Learning Management Systems**

**(LMS), E-learning resources etc.**

**Response:** 100

2.3.2.1 Number of teachers using ICT

Response: 83

File Description	Document
List of teachers (using ICT for teaching)	<a href="#">View Document</a>
Provide link for webpage describing the " LMS/ Academic management system"	<a href="#">View Document</a>

**2.3.3 Ratio of students to mentor for academic and stress related issues**

**Response:** 16.58

2.3.3.1 Number of mentors

Response: 67

File Description	Document
Any additional information	<a href="#">View Document</a>

**2.3.4 Innovation and creativity in teaching-learning**

**Response:**

Faculty has been continuously upgrading themselves to achieve excellence in teaching-learning processes by attending workshops, short term training programs, faculty development programs like Mission 10X (by WIPRO), soft skill development as well as various technical courses by NPTEL, Foundation program in ICT for education (by MHRD), pedagogy for online blended teaching learning process etc. to enhance the quality of engineering education. Various innovative methods used by faculties are as follows

**Pedagogical Learning** is adopted by teachers in classroom for teaching. Pedagogy refers to the “interactions between teachers, students, and the learning environment and the learning tasks.” This broad term includes how teachers and students relate together. This improvises performance of the student. Faculty uses presentation slides, simulation and demonstration in class to convey the content in effective manner. Under new approaches few teachers encourage and help students to develop mini projects in their respective subjects. Use of online journals and books are encouraged, high level assignment questions are designed by faculty and uploaded in Moodle /Google classroom/Google drive. E-learning by NPTEL ,MOOC, EDX videos are encouraged.

**Formation of different groups (advance learners and slow learners)** among students and encouraging peer learning. Peer learning is students learning from other students. Students feel more comfortable and open when interacting with a peer. This helps students who are academically less performing. Guest

Lectures by Alumni working in industry are arranged for students.

**Role-play** This technique is an excellent tool for engaging students and allowing them to interact with their peers. It is a very flexible teaching approach because it requires no special tools, technology or environments. Faculties make use of Role Play, Team Building Activities, Group Discussion etc, as part of class room teaching.

**Use of Think-pair-share:** Groups of students are given Questions prepared by the faculty. Students have to read the questions and brainstorm on the given question (Think Phase). This is shared with other students in the group (Pair Phase). The group concludes about the problem statement and shares the answers with other groups. Finally, the class brainstorms (Share Phase)..

**On-site visits are arranged** to easily understand the concepts and to gain knowledge of emerging trend in industry.

**Mind mapping techniques:** A mind map is a diagram used to visually organize information. Beyond just note-taking, the mind maps can help students to become more creative, remember more, and solve problems more effectively.

**Screen casting activity:** Screen casting is the act of recording a video .Screen casting can provide learners a student-centered experience in both distance and traditional learning settings. Difficult numerical/topics can be uploaded on MOODLE so students can watch the related video as and when required

**Kahoot:** It is a game based platform which makes technical quiz interesting.

Institute constantly takes effort to make teaching learning more effective.

File Description	Document
Any additional information	<a href="#">View Document</a>

## 2.4 Teacher Profile and Quality

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

**Response:** 100.75

File Description	Document
Year wise full time teachers and sanctioned posts for 5 years	<a href="#">View Document</a>
List of the faculty members authenticated by the Head of HEI	<a href="#">View Document</a>

### 2.4.2 Average percentage of full time teachers with Ph.D. during the last five years

**Response: 5.59**

2.4.2.1 Number of full time teachers with Ph.D. year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
6	5	4	5	4

File Description	Document
List of number of full time teachers with PhD and number of full time teachers for 5 years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**2.4.3 Teaching experience per full time teacher in number of years**

**Response: 10.05**

2.4.3.1 Total experience of full-time teachers

Response: 834.44

**2.4.4 Percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the last five years**

**Response: 19.72**

2.4.4.1 Number of full time teachers receiving awards from state /national /international level from Government recognised bodies year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
7	6	2	0	2

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
e-copies of award letters (scanned or soft copy)	<a href="#">View Document</a>

**2.4.5 Average percentage of full time teachers from other States against sanctioned posts during the last five years**

**Response:** 22.75

2.4.5.1 Number of full time teachers from other states year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
21	21	19	19	17

File Description	Document
List of full time teachers from other state and state from which qualifying degree was obtained	<a href="#">View Document</a>

## 2.5 Evaluation Process and Reforms

### 2.5.1 Reforms in Continuous Internal Evaluation(CIE) system at the institutional level

**Response:**

1. Internal Assessment of the courses is done through conduction of two class tests 20 marks each in every semester covering syllabus as per university rule and average marks of both tests will be considered as final Internal Assessment marks.
2. The performance of the student is evaluated throughout the semester in terms of Term work which includes experiment journal, tutorials, assignments, attendance and Project work (if applicable) and rubrics are defined for evaluation of experiments and assignments in respective subjects Faculty is also maintaining the attendance record of students for theory and practical sessions for given subjects.

#### 3. Reforms in Tests–

A) Class test is a separate head for passing in the particular semester as per University of Mumbai Regulations.

B) Faculty prepares three sets of question papers maintaining the cognitive levels for given subject and one out of it is randomly selected for the test by the exam cell In-charge.

c) Marking scheme and ideal solution is displayed on the notice board for the students.

This reforms in test helps to improve the student's performance by continuous evaluation

#### 4. Reforms in Assignment-

- Reforms in the assignments includes questions which are challenging and are of higher cognitive levels which helps in improvising learning levels of students. .
- Assignments are also given in the form of quiz, paper presentation case study etc for slow learners and advanced learners.
- The evaluation of the assignment is done as per the rubrics which are displayed on the notice board.



### 5. Reforms in Journals-

- A) Previously the journal write up used to be hand written but now the digitization process for printed journals is partially adopted so that student get more time for practical performance.
- B) For every semester, experiment list is upgraded by modifying or adding few experiments.
- C) The evaluation of the Journal is done as per the rubrics which are displayed in the lab.
- D) Few subjects have a mini project or a case study which enhances student's skills as well as their knowledge of modern tools and team spirit.

### 6. Reforms in final year(BE) Project Evaluation-

- A) The project groups are formed before the commencement of the VII semester.
- B) A project schedule for entire semester is displayed at the beginning of the semester.
- C) Out house projects are encouraged so that the students can get industry exposure.
- D) Project status is monitored based on weekly reporting of the students to their respective guides.
- E) The evaluation of the term work of the project is done based on
  - Weekly reporting of the students to the respective guides and their ability to timely complete the task assigned by the guide.
  - Internal presentation supported by project report.
  - Rubrics are followed while evaluating it.

File Description	Document
Link for Additional Information	<a href="#">View Document</a>

### 2.5.2 Mechanism of internal assessment is transparent and robust in terms of frequency and variety

#### Response:

There is complete transparency in the internal assessment. Internal marks for the students are awarded by taking the average of the class test marks. The other aspects like attendance, laboratory work, assignments, tutorials, etc. are also taken in to consideration.

1. Orientation program is conducted at the beginning of the semester on the departmental level and the entire schedule of the activities as per academic calendar is conveyed to the students.
2. Continuous assessment is carried according to the schedule given in the academic calendar.

3. Rubrics for assignments and experiments are displayed on the notice board of each lab.
4. After the term test conduction model answers and marking scheme are displayed on the departmental notice board as well as discussed with the students by the faculties. Within 15 days of term test exam conduction results are displayed on the departmental notice board.
5. Any queries related to the term test or assignments are addressed by the faculty as per university rules.
6. Attendance record of each student is maintained.

7. Final year project schedule is displayed. This assessment is based on stage wise completion of project. On weekly report basis project grade is given.

File Description	Document
Link for Additional Information	<a href="#">View Document</a>

### **2.5.3 Mechanism to deal with examination related grievances is transparent, time-bound and efficient**

#### **Response:**

The general idea regarding grievances of the students with reference to evaluation process are made clear during the orientation program.

#### **A) University Level Grievances**

1. At the University level if there is any discrepancy of marks students are allowed to apply for photocopy and Revaluation. University takes necessary action. If there is any change in the marks the revised mark sheet is issued to the student by the University.
2. The photocopy is given within ten days of application form submission.
3. Revaluation results are declared within forty five days of application form submission.
4. If the student is not satisfied with the revaluation process he/she can apply for grievances cell of University of Mumbai which takes further action.
5. In theory question paper if any question is out of syllabus or any data is missing then students can write to the Controller of Examination through Senior Supervisor & Principal. At university level controller of exam take care of the issue & take necessary action

#### **B) College Level Grievances**

1. At the college level if there is any discrepancy students are allowed to apply for photocopy and Revaluation. If there is any change in the marks the revised mark sheet is issued to the student by the college.
2. The photocopy is given within ten days of application form submission.
3. Revaluation results are declared within forty five days of application form submission.



File Description	Document
Link for Additional Information	<a href="#">View Document</a>

#### 2.5.4 The institution adheres to the academic calendar for the conduct of CIE

**Response:**

1. The academic actions of the institute are based on the academic calendar of the affiliated university (University of Mumbai). In the beginning of the academic year i.e. in the Month of June, college prepares its own academic plan semester wise consists of ODD Semester from July to December and EVEN Semester from January to June, proposing the activities and it's probable dates .
2. Academic calendar includes curricular, co-curricular and extra-curricular activities to be conducted by the institute. Curricular activities such as schedule of Test (I and II), internal practical oral exam, assignment, final tem work submission schedule etc. are included. In addition to all these academic activities, cultural, co-curricular activities such as Sports, TPO activity, Reflexionz (Cultural festival), Detroix (Technical festival), TechnoVision (Engineers Day), Fresher's party, Founders Day etc are also included in the academic calendar. Institute adheres to conduct various internal examinations like term tests, oral-practical examination etc as per the academic calendar.
3. Assignment: As mentioned in the syllabus prescribed by University of Mumbai every subject has two minimum assignments based on syllabus, and given periodically which are then evaluated and included as a part of term work.
4. Class Tests: According to the University of Mumbai rules two class tests are conducted in each semester covering at least 40% syllabus for Class Test-I and 80% of the Syllabus for Class Test-II respectively.
5. Practical /Oral Exam: practical oral exams are conducted as per academic calendar (slots for the oral / practical exam are provided in the University of Mumbai academic calendar) after the term end.
6. Feedback: Feedback from the students regarding the teaching learning process, faculty etc. is taken following the academic calendar.

File Description	Document
Link for Additional Information	<a href="#">View Document</a>

## 2.6 Student Performance and Learning Outcomes

### 2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the Institution are stated and displayed on website and communicated to teachers and students

**Response:**

The institute has defined Vision and Mission statements for every program. All programs have a set of

PSO, PEO, program outcomes (Pos) and course outcomes (Cos).

1. **Program Outcomes (POs):** Program outcomes represent the knowledge, skills and attitude that graduate of formal engineering program should acquire at the end.
2. **Course Outcomes (COs):** Course Outcomes are the resultant knowledge skills the student acquires at the end of the course. It represents the cognitive level of a course.
3. **Program Educational Objectives (PEOs):** PEOs are broad statements that describe the career and professional accomplishments in five years after graduation.
4. **Program Specific Outcomes (PSOs):** PSOs are statements that describe what the graduates of a specific engineering program should be able to do.

Faculty and students are communicated Program outcomes, program specific outcomes and course outcomes through various ways:

- Vision, Mission of the college is clearly displayed at various places such as college website, common areas, principal's cabin.etc.
- Mission, Vision of Institute and Department are conveyed in the orientation program organized for the first year engineering students and the second year (diploma) students before the commencement of the course.
- Vision and Mission of Institute and Department, PEO are published in the institute magazine and newsletters and the same are announced to the stakeholders.
- Course outcome/Lab outcome are conveyed to the student of all the departments in the first lecture during syllabus discussion and also during the course modules wherever applicable.
- Course outcome/Lab outcome of each individual subject/lab is stated in the course file maintained by the subject teacher and displayed in the department laboratories.
- Course outcome/Lab outcome are mentioned in the journals.
- Course outcome/Lab outcome of each individual subject is stated in the assignment questions and class test question papers.

At the end of every semester, all the departments map POs and COs by considering the direct and indirect forms of the assessment. During teaching-learning process, faculty member take utmost care to achieve all POs, PSOs, and COs.

File Description	Document
COs for all courses (exemplars from Glossary)	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

### 2.6.2 Attainment of program outcomes, program specific outcomes and course outcomes are evaluated by the institution

#### Response:

- The course outcomes are specified by the University of Mumbai in the syllabus, subject teacher can modify course outcome if required.
- Course file is prepared & maintained by individual faculty for each course.
- Target for attainment of course (Learning) outcomes is set according to previous examination result. Course outcomes are mapped with program outcomes. CO – PO –PSO mapping & assessment tools are mentioned in the course file.
- The attainment of course outcome is calculated by direct and indirect tools for each course.
- Direct assessment tools such as internal test, end semester examination, laboratory performance, assignment etc are used.
- Rubrics are formulated and communicated to students well in advance and are used to assess the performance of the student.
- Course exit survey is taken from the students at the end of the semester. Respective subject incharge prepares questionnaire for the survey which are mapped with course outcomes.
- Program exit survey is taken from current year passed out students at the time of convocation. These surveys give student's perspective on course/ program outcomes.
- According to the response from individual students attainment is evaluated.
- Final attainment of course outcomes is calculated with 80% weightage for direct and 20% weightage for indirect assessment tools.
- Attainment of course (Learning) outcome at each course contributes to achievement of program outcomes.
- For bridging the gaps identified in the curriculum, various technical activities in collaboration with Industry-academia experts, Alumni etc are planned and conducted.
- Attainment levels helps students and teachers for reviewing the knowledge acquired by learning the course as well as help the teacher to improve course delivery.

#### • FLOW CHART OF ATTAINMENT CALCULATION

File Description	Document
Link for Additional Information	<a href="#">View Document</a>

### 2.6.3 Average pass percentage of Students

**Response:** 87.88

2.6.3.1 Total number of final year students who passed the examination conducted by Institution.

Response: 290

2.6.3.2 Total number of final year students who appeared for the examination conducted by the institution

Response: 330

<b>File Description</b>	<b>Document</b>
Institutional data in prescribed format	<a href="#">View Document</a>

## 2.7 Student Satisfaction Survey

**2.7.1 Online student satisfaction survey regarding teaching learning process**

**Response:**

## Criterion 3 - Research, Innovations and Extension

### 3.1 Resource Mobilization for Research

**3.1.1 Grants for research projects sponsored by government/non government sources such as industry ,corporate houses, international bodies, endowment, chairs in the institution during the last five years (INR in Lakhs)**

**Response:** 0

3.1.1.1 Total Grants for research projects sponsored by the non-government sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution year-wise during the last five years(INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

**File Description**

**Document**

List of project and grant details

[View Document](#)

**3.1.2 Percentage of teachers recognised as research guides at present**

**Response:** 6.02

3.1.2.1 Number of teachers recognised as research guides

Response: 5

**3.1.3 Number of research projects per teacher funded, by government and non-government agencies, during the last five year**

**Response:** 0

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

3.1.3.2 Number of full time teachers worked in the institution during the last 5 years

Response: 142

### 3.2 Innovation Ecosystem

**3.2.1 Institution has created an ecosystem for innovations including incubation centre and other initiatives for creation and transfer of knowledge**

**Response:**

Research is all about building on ideas. It takes courage to travel from idea to an actual product. People who have the courage to change the world with one idea are called Researchers. The institute is dedicated to promote the spirit of research among the faculty members and students.

K.C. College of Engineering and Management Studies and Research has worked towards creating research environment in the institute. The institute is motivating faculties and students to pursue and upgrade their research knowledge based on their area of interest and expertise. The institute is encouraging faculties to attend Faculty Development Programmes, Seminars, Workshops, Short Term Training Programs and International and National Conferences in their research domain and to publish their research work in peer reviewed Journals. The institute is inspiring the students and faculties to utilize the laboratories, digital library resources, magazines, and journals to pursue their research work. The institute encourages students to participate in Project Competitions, Paper Presentation, and Conferences held at various colleges. The Department of Electronics and Telecommunication and Electronics Engineering jointly organized International Conference on 'Electronics & Computing Technologies' (ICONECT) in a continuity of three years (2013-14 to 2015-16).

The institute has developed a culture of research by consulting and funding various research projects under Entrepreneurship cell which was established in the year 2015. Students are encouraged to pursue research and develop their entrepreneurship skill through various projects sanctioned from institute and consultancy work from companies and agencies. The Entrepreneurship cell received a funding of 20000/- from Entrepreneurship Development Institute of India (EDII) regarding conduction of activities/programs of Entrepreneurship awareness camp under National Science & Technology Entrepreneurship Development Board (NSTEDB). The institute has sanctioned seed money of approximately Rs. 1,04,609/- for various research projects. Students of entrepreneurship cell also bagged the **Second Position in National Entrepreneurship Challenge** organized by **The Entrepreneurship Cell, IIT Bombay**.

As a part of Research and Innovation, institute provides the financial as well as technical support for the technical competition named **Smart India – Hackathon**. Students as well as staff have got the opportunity to enhance and expand their technical circumference by this platform.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

### 3.2.2 Number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the last five years

**Response:** 49

#### 3.2.2.1 Total number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
17	5	10	8	9

<b>File Description</b>	<b>Document</b>
List of workshops/seminars during the last 5 years	<a href="#">View Document</a>

### 3.3 Research Publications and Awards

<b>3.3.1 The institution has a stated Code of Ethics to check malpractices and plagiarism in Research</b>	
<b>Response: Yes</b>	
<b>File Description</b>	<b>Document</b>
Institutional data in prescribed format	<a href="#">View Document</a>

<b>3.3.2 The institution provides incentives to teachers who receive state, national and international recognition/awards</b>	
<b>Response: Yes</b>	
<b>File Description</b>	<b>Document</b>
e- copies of the letters of awards	<a href="#">View Document</a>

<b>3.3.3 Number of Ph.D.s awarded per teacher during the last five years</b>	
<b>Response: 0</b>	
3.3.3.1 How many Ph.Ds awarded within last five years	
3.3.3.2 Number of teachers recognized as guides during the last five years	
<b>File Description</b>	<b>Document</b>
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	<a href="#">View Document</a>

<b>3.3.4 Number of research papers per teacher in the Journals notified on UGC website during the last five years</b>				
<b>Response: 2.84</b>				
3.3.4.1 Number of research papers in the Journals notified on UGC website during the last five years				
2017-18	2016-17	2015-16	2014-15	2013-14
35	36	72	49	53



<b>File Description</b>	<b>Document</b>
List of research papers by title, author, department, name and year of publication	<a href="#">View Document</a>

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

**Response:** 2.54

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

2017-18	2016-17	2015-16	2014-15	2013-14
25	51	53	44	46

<b>File Description</b>	<b>Document</b>
List books and chapters in edited volumes / books published	<a href="#">View Document</a>

## 3.4 Extension Activities

### 3.4.1 Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the last five years

**Response:**

The institute organizes a number of activities to promote institute – neighbourhood - community network to sensitize the students towards societal needs and bring about social change in the surrounding urban and rural communities through Four basic units: YRC, ROTARACT Club, Eco - Cell and Women development Cell.

Table: Details of Activities

Sr. No.	Organized By	Year	Details of Activity	Date	No of Participants
1	Women Development Cell	2017-18	International Yoga Day	21 June 2018	57



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MANAGEMENT STUDIES AND RESEARCH

2	ECO Club	2017-18	E – Waste Collection Drive ( World Environment Day)	5 June 2018	All faculties and students
3	ECO Club	2017-18	Tree plantation at Pimpri on World Environment Day	5 June 2018	40
4	ECO Club with ECOROX	2017-18	Seminar titled “Domestic waste management , Terrace Gardening and Home Gardening”	16 March 2018	39
5	Rotaract Club of KCCOE	2017-18	Next Think Tank (NTT)	15 March 2018	385
6	ECO Club	2017-18	Tree plantation at Pimpri village (International Woman’s Day)	08 March 2018	69
7	Women Development Cell	2017-18	Walkathon at Pimpri village	08 March 2018	69
8	Women Development Cell	2017-18	International Women’s Day celebration (Health camp at Pimpri village)	08 March 2018	69
9	KCCEMSR, Thane (E)	2017-18	Donation to Divyang Kala Kendra, Thane (W)	28 February 2018	--
10	KCCEMSR, Thane (E)	2017-18	Flash Mob at Viviana Mall	10 February 2018	42
11	KCCEMSR, Thane (E)	2017-18	Flash Mob at Bhandup	09 February 2018	42
12	KCCEMSR, Thane (E)	2017-18	Flash Mob at Talav Palli (Thane)	09 February 2018	42
13	Women Development Cell, KCCEMSR, Thane (E)	2017-18	Visit to orphanage <i>Maa-Niketan</i>	2 February 2018	13
14	Rotaract Club of KCCOE	2017-18	<i>Kanya</i> - Donation of sanitary napkins to Kamlini Vidyalaya, Thane(E)	29 January 2018	10
15	Women Development Cell	2017-18	Samadhan (Haldi kumkum)	24 January 2018	60
16	Rotaract Club of KCCOE	2017-18	<i>Sandesh 2.0</i> - A message to Indian Army: messages to beloved soldiers in form of graffiti.	19 January 2018 - 25 January 2018	9
17	Rotaract Club of	2017-18	“ <i>Muskaan</i> ”Pimpri visit- The	11 January 2018	7

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MANAGEMENT STUDIES AND RESEARCH**

	KCCOE		donation drive which include basic amenities for students like stationary things and toys.		
18	ECO Club with ECOROX	2017-18	Inauguration of Compost Pit	28 December 2017	36
19	KCCEMSR, Thane (E)	2017-18	Donation to Primary School, Yeoor ,Thane	05 October 2017	--
20	Women Development Cell	2016-17	Bike Rally to spread message of "Save the Girl Child".	08 March 2017	33
21	KCCEMSR, Thane (E)	2016-17	Yoga	18 October 2016	27
22	KCCEMSR, Thane (E)	2015-16	Joy of Sharing	19 October 2015	9
23	KCCEMSR, Thane (E)	2014-15	Hand of Love – Hospital Visit	23 September 2014	21
24	KCCEMSR, Thane (E)	2013-14	School Visit	5 October 2013	20

<b>File Description</b>	<b>Document</b>
Link for Additional Information	<a href="#">View Document</a>

### 3.4.2 Number of awards and recognition received for extension activities from Government /recognised bodies during the last five years

**Response:** 9

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

2017-18	2016-17	2015-16	2014-15	2013-14
9	0	0	0	0

File Description	Document
Number of awards for extension activities in last 5 years	<a href="#">View Document</a>
e-copy of the award letters	<a href="#">View Document</a>

### 3.4.3 Number of extension and outreach Programs conducted in collaboration with Industry, Community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the last five years

**Response:** 19

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

2017-18	2016-17	2015-16	2014-15	2013-14
15	1	1	1	1

File Description	Document
Reports of the event organized	<a href="#">View Document</a>
Number of extension and outreach programs conducted with industry,community etc for the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.4.4 Average percentage of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids

### Awareness, Gender Issue, etc. during the last five years

**Response:** 16.91

3.4.4.1 Total number of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
881	26	10	13	15

File Description	Document
Report of the event	<a href="#">View Document</a>
Average percentage of students participating in extension activities with Govt or NGO etc	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.5 Collaboration

**3.5.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc during the last five years**

**Response:** 76

3.5.1.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
8	18	25	11	14

File Description	Document
Number of Collaborative activities for research, faculty etc	<a href="#">View Document</a>
Copies of collaboration	<a href="#">View Document</a>

**3.5.2 Number of functional MoUs with institutions of National/ International importance, Other Institutions, Industries, Corporate houses etc., during the last five years (only functional MoUs with ongoing activities to be considered)**

**Response: 7**

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 (only functional MoUs with ongoing activities to be considered)

2017-18	2016-17	2015-16	2014-15	2013-14
7	0	0	0	0

File Description	Document
e-copies of the MoUs with institution/ industry/ corporate house	<a href="#">View Document</a>
Details of functional MoUs with institutions of national, international importance, other universities etc during the last five years	<a href="#">View Document</a>

## Criterion 4 - Infrastructure and Learning Resources

### 4.1 Physical Facilities

**4.1.1 The institution has adequate facilities for teaching- learning. viz., classrooms, laboratories, computing equipment, etc.**

**Response:**

The institute follows the norms laid down by All India Council For Technical Education (AICTE) for creating and enhancing the infrastructure with latest information technology to facilitate effective teaching and learning. The institute lays importance to the procurement and up gradation of the infrastructure in accordance with the needs of the teachers and students with the changing trends of curriculum and circumstances. The college provides all the facilities for a smooth functioning of the classes by providing spacious rooms. All the classrooms and seminar halls are with ICT enabled which provide proper environment for students to study. The institute has complete lab setup with latest equipment as required by the curriculum. The institute lab is campus license for Windows-Edu. Moreover, the various labs are Data Base Lab, Operating System Lab, Internet Lab and also a computer center. To state further the labs are furnished with latest equipment like Microwave and Advanced microwave(MIC) trainer, Wireless sensor networks kit, IC Tester and programmer, FPGAS and CPLDS, Satellite Trainer, Arduino, Raspberry Pi, Node MCU,ESP 8266,PLC,Robotics trainer(Programmable logic controller),DSP Trainer. The institute has enriched library resource with reprographic facility. Campus is Wi-Fi enabled with uninterrupted power supply. Institute has exclusive language lab to enhance the overall personality development. The institute has Live Streaming facility using big blue button open source software. Some classrooms have taken a step away from traditional blackboards to new and functional green boards. The college has five academic floors that could house classrooms, tutorial rooms. The institute has faculty rooms that is helpful for the faculty to contribute effectively towards the teaching learning process as well as remain approachable to student

The college has seminar halls with an adequate seating capacity that can house small as well as large groups for various academic sessions and celebrations in the campus. A canteen functions within the college premises, and provides food at affordable rates to the staff and students of the college. Breakfast, lunch, snacks, tea and coffee are available in the canteen. It also undertakes catering for numerous Departmental programs. For fire safety, fire extinguisher facility is installed in the campus. To promote green energy, solar panels are installed in the campus. Security surveillance system is installed all over the campus, purified water facility is provided in the campus. The institute has a medical room wherein one has easy access to first aid if required. Also ramp, wheelchair and walker are available for persons with disabilities and further enhancement has been done by providing elevator in the campus. To encourage students Entrepreneurship skill there is a separate E-cell laboratory with advanced equipment.

File Description	Document
Link for Additional Information	<a href="#">View Document</a>

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

**Response:**

Sport and cultural activities are essential to student life. Institute actively encourages students to participate in various extracurricular activities in order to build team spirit and leadership qualities. The institute has adequate facilities for sports i.e. indoor and outdoor games. Following are the details of sports ground.

Facility	Area	Year of Establishment	User Rate
Sports Ground	2207 sq.m	2001	100%

Student Council of the institution yearly organizes Sports day named **Xavion**. This is a chance for students to have a passion for outdoor sports and team games to shine. It includes the various competitions including indoor and outdoor game. Indoor games include Table Tennis, Badminton, Chess, Carrom, etc. Outdoor games include activities of Kho-Kho, football, badminton, cricket, volley ball, throw ball, kabaddi, tug of war etc. There are various fitness options on the campus as well. For fitness of the students the institution provides gymnasium facility with the instrument plate of 2.5 kg, plate of 25 Kg, long bar, zigzag bar, short bar, hand bar, gym bench, all body workout machine of : chest, back leg, two treadmill, cycles. To de-stress, relax, feel healthier and more energetic the institution frequently organized yoga sessions for students and staff. The institute also celebrates International Yoga Day.

The annual intercollegiate cultural festival Reflexionz is organized by the institution. It provides a platform for students to exhibit their talents and organizational skills. Various events like group dance, fashion show, singing and many more events are organized during Reflexionz.

File Description	Document
Link for Additional Information	<a href="#">View Document</a>

**4.1.3 Percentage of classrooms and seminar halls with ICT - enabled facilities such as smart class, LMS, etc**

**Response:** 100

**4.1.3.1 Number of classrooms and seminar halls with ICT facilities**

**Response:** 19

File Description	Document
Number of classrooms and seminar halls with ICT enabled facilities	<a href="#">View Document</a>
any additional information	<a href="#">View Document</a>

#### 4.1.4 Average percentage of budget allocation, excluding salary for infrastructure augmentation during the last five years.

**Response:** 11.53

4.1.4.1 Budget allocation for infrastructure augmentation, excluding salary year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
103	64	198	25.5	64.5

File Description	Document
Details of budget allocation, excluding salary during the last five years	<a href="#">View Document</a>
Audited utilization statements	<a href="#">View Document</a>

## 4.2 Library as a Learning Resource

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

**Response:**

Library Management System helps the library to manage day to day activities more efficiently, promptly and in less time which will lead to saving in manpower and time. A unique State of Art is developed which will help to keep complete track of library resources. With this system data is entered only once and instantly available thus it reduces duplicate data entry. The administration and day to day work can be carried out more smoothly, efficiently and fast through single window. It offers user an advanced, comprehensive next generation library experience.

Library Management System is divided into different modules such as acquisition modules, circulation modules, OPAC Modules, Book Binding Modules, stock verification modules, reports, etc. Following are the few modules description.

**Acquisition:** Acquisition in Library Software administrates accessioning of new document. It contains Accession register, name wise book list , department wise, subject wise, classification wise and vendor wise.



**Circulation:** Circulation Module takes care of the activities comprising of issue and return of books.

**OPAC:** OPAC stands for Online Public Access Catalogue. In OPAC, user can search by title wise, author wise, subject wise, publisher wise, department wise. It serves as a catalogue to locate books & other material in the library.

**Reports:** Reports can be generated from the use of the software like Accession Register, daily book issue and return register, summary of purchase of books, title wise booklist and count analysis report for maximum Books Read By Student, subject wise, Department wise, Summary of Books, Books issued to Staff, Student, Late return books, Stock Verification, No dues list, Books write off, discarded, lost, etc. register wise, book title wise details, daily fine collection register.

Year	Name of ILMS	Fully or Partially	Version
2017-18	Biyani Technologies	Fully	VB 3 (Visual Basic)
2016-17	Biyani Technologies	Partially	VB 3 (Visual Basic)
2015-16	Biyani Technologies	Partially	VB (Visual Basic)
2014-15	Biyani Technologies	Partially	VB (Visual Basic)
2013-14	Biyani Technologies	Partially	VB (Visual Basic)

#### 4.2.2 Collection of rare books, manuscripts, special reports or any other knowledge resources for library enrichment

**Response:**

- **Rare Books**

SR.NO	Name of the book	Name of Author	Name of the publisher	Year published
1	Rabindranath Tagore A Biographical Study	Ernest Rhys	Macmillan And Co., Limited	1915
2	A history of Civilization in Ancient India	Romesh Chunder Dutt	Thacker, SPINK and co	1889
3	The Last Days in England of the Rajah Ram Mohun Roy	Mary Carpenter	E.T. Whitfield, 178 Strand, W.C.	1875

4	Shivaji The Great	Bal Krishna	The Arya Book Depot , Kolhaour	1940
5	KALIDASA (Second Series')	Aurobindo	SRI AUROBINDO ASHRAM, PONDICHERRY	1954
6	Iron And Steel  In India·  A Chapter From The Life Of Jamshedji N. Tata	Lovat Fraser	Bombay  The Times Press . .	1919
7	Coins of India	C.J.Brown	Association Press  (Y.M.C.A.)  5, Russell Street, Calcutta	1922

**Note : Available in CD Format under digital library.**

• **Special report –**

Name of the book	Name of the publisher	Year of publishing
ICONECT' 16	KCCMSR	2016
ICONECT' 15	KCCMSR	2015
	KCCMSR	2014

ICONECT'14		
Technovision 2017	KCCEMSR	2017
Technovision 2016	KCCEMSR	2016
Technovision 2015	KCCEMSR	2015
Technovision 2014	KCCEMSR	2014
Technovision 2013	KCCEMSR	2013

Atmajyot	KCCEMSR	2012
SAGY	KCCEMSR	2017

• **Competitive Exam Book -**

Sr. No.	BOOK NAME	AUTHOR	PUBLISH
1	Quantitative Aptitude For Competitive Exam	Guha, Abhijit	McGraw H
2	Quantitative Aptitude	Aggarwal, R. S.	S. Chand A
3	Quantitative Aptitude And Reasoning	Praveen, R. V.	Phi Learni
4	Quantitative Aptitude For Competitive Exam	Aggarwal, R. S.	S. Chand A
5	GATE (Electronic Communication Engineering)	Trishna Knowledge	Pearson Inc
6	GATE (Electrical Engineering)	Trishna Knowledge	Pearson Inc
7	GATE (Computer Science And Information Technology)	Trishna Knowledge	Pearson Inc

File Description	Document
Link for Additional Information	<a href="#">View Document</a>

**4.2.3 Does the institution have the following:**

- 1.e-journals
- 2.e-ShodhSindhu
- 3.Shodhganga Membership
- 4.e-books
- 5.Databases

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

**Response:** B. Any 3 of the above

File Description	Document
Details of subscriptions like e-journals,e-ShodhSindhu,Shodhganga Membership etc	<a href="#">View Document</a>

#### 4.2.4 Average annual expenditure for purchase of books and journals during the last five years (INR in Lakhs)

**Response:** 29.64

##### 4.2.4.1 Annual expenditure for purchase of books and journals year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
34.59	30.92	30.89	21.92	29.9

File Description	Document
Details of annual expenditure for purchase of books and journals during the last five years	<a href="#">View Document</a>
Audited statements of accounts	<a href="#">View Document</a>

#### 4.2.5 Availability of remote access to e-resources of the library

**Response:** Yes

#### 4.2.6 Percentage per day usage of library by teachers and students

**Response:** 22.11

4.2.6.1 Average number of teachers and students using library per day over last one year

Response: 264

File Description	Document
Any additional information	<a href="#">View Document</a>

### 4.3 IT Infrastructure

#### 4.3.1 Institution frequently updates its IT facilities including Wi-Fi

**Response:**

- 1.The Institute has well-structured IT Infrastructure with LAN Facility Every Floor 9 U Rack is installed with D Link Switches& TPLink Switches and same is provided in each Laboratory also. Each Laboratory is provided with printing facility. Software for perpetual License is updated on regular basic by company and paper license software is updated as and when vendor approaches with the new edition.
- 2.To provide Wi-Fi facility in all classrooms and Laboratories D Link &TP Link Switches are installed.
- 3.Laboratories are equipped with latest updated PCs.
- 4.The installed software's are updated as required.
- 5.The institute has leased line of 50 Mbps.

**Internet Availability:**

**2017-18**

<b>Internet Bandwidth</b>	110 Mbps
<b>Connectivity</b>	1:1
<b>Service Provider</b>	1 & 1 Broadband &Intech Broadband (Macone)
<b>Wi-Fi Availability</b>	23Locations in the Institute Campus.
<b>Security Arrangements</b>	Quick heal Antivirus, Open Source Firewall for Internet.

**Network Connectivity to Laboratories:**

<b>2016-17</b>		
<b>Internet Bandwidth</b>	35 Mbps (expandable up to 50 Mbps)	
<b>Service Provider</b>	1 & 1 Broadband &Intech Broadband (Macone)	
<b>Wi-Fi availability</b>	4 locations in the Institute.	
<b>Security Arrangements</b>	Quick Heal Antivirus, Open Source Firewall for Internet.	
<b>2015-16</b>		
<b>Internet Bandwidth</b>	35 Mbps (expandable up to 50 Mbps)	
<b>Service Provider</b>	1 & 1 Broadband &Intech Broadband (Macone)	
<b>Wi-Fi availability</b>	4 locations in the Institute.	
<b>Security Arrangements</b>	Kaspersky Antivirus, Open Source Firewall for Internet.	
<b>2014-15</b>		
<b>Internet Bandwidth</b>	20 Mbps	
<b>Connectivity</b>	(1:1) Shared	
<b>Service Provider</b>	1 & 1 Broadband &Intech Broadband	
<b>Wi-Fi availability</b>	4 locations in the Institute.	
<b>Security Arrangements</b>	Kaspersky Antivirus,	

NAAC



<b>Internet Bandwidth</b>	20 Mbps	
<b>Connectivity</b>	(1:1) Shared	
<b>Service Provider</b>	1 & 1 Broadband &Intech Broadband	
<b>Wi-Fi availability</b>	4 locations in the Institute.	
<b>Security Arrangements</b>	Symantec antivirus	

NAAC

**Network Switch Details :**

**2017-18**

Type	Quantity	Remarks
Distribution Switch	5	Belongs to Datacenter
Edge Switch	40	Belongs to Departments

**2016-17**

Type	Quantity	Remarks
Distribution Switch	3	Belongs to Datacenter
Edge Switch	33	Belongs to Departments

**2015-16**

Type	Quantity	Remarks
Distribution Switch	3	Belongs to Datacenter
Edge Switch	22	Belongs to Departments

**2014-15**

Type	Quantity	Remarks
Distribution Switch	3	Belongs to Datacenter
Edge Switch	21	Belongs to Departments

**2013-14**

Type	Quantity	Remarks
Distribution Switch	3	Belongs to Datacenter
Edge Switch	21	Belongs to Departments

**4.3.2 Student - Computer ratio**

**Response:** 2.79

**4.3.3 Available bandwidth of internet connection in the Institution (Lease line)**

**>=50 MBPS**

**35-50 MBPS**

**20-35 MBPS**

**5-20 MBPS**

**Response:** >=50 MBPS

File Description	Document
Any additional information	<a href="#">View Document</a>

#### 4.3.4 Facilities for e-content development such as Media Centre, Recording facility, Lecture Capturing System (LCS)

**Response:** Yes

File Description	Document
Facilities for e-content development such as Media Centre, Recording facility,LCS	<a href="#">View Document</a>
Link to photographs	<a href="#">View Document</a>

#### 4.4 Maintenance of Campus Infrastructure

##### 4.4.1 Average Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, as a percentage during the last five years

**Response:** 27.34

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

2017-18	2016-17	2015-16	2014-15	2013-14
291.37	219.34	228.47	177.58	156.76

File Description	Document
Details about assigned budget and expenditure on physical facilities and academic facilities	<a href="#">View Document</a>
Audited statements of accounts.	<a href="#">View Document</a>

##### 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:**

All the Departments and various functioning units of the institute are provided with all the required infrastructure facilities like placement office, head of the department cabins, faculty rooms, class rooms, girls common room ,boys common room, laboratories, computer center, sports ground, canteen etc. Students and faculty can avail the facility of yoga training.

The institute always ensures the allocation of adequate financial resources for maintenance and upkeep of major facilities for academic, physical and support facilities like furniture, equipment, computers, teaching aids, etc. It is made sure that the resources are optimally utilized by appointing annual contracts for power supply, lifts, water coolers, ACs, reprographic facilities, maintaining hygiene and cleanliness in the campus etc. To maintain cleanliness and hygiene in the campus a full time outsourced housekeeping team is available. To maintain garden area a full time gardener is available. To take care of furniture and electrical fixture throughout the campus a full time carpenter and electrician is appointed. Generators, power supply units and power backups (UPS) are kept in an isolated area to prevent any damages due to unintended interference. During the power cuts, electrical supply is ensured in the campus by the operations of generators with restoration time of 3 minutes. Also voltage stabilizers are provided to majority of electrical equipment to stabilize the voltage fluctuations.

The effective usage of all the facilities is ensured by encouraging the students to participate in various curricular and co-curricular activities.

Institution frequently updates IT facilities. An exclusive system administrator is functioning in the college to cater to the needs of day-to-day computer maintenance. However, minor software and hardware problems are being handled by the concerned lab assistant. A separate computer maintenance team is available which handles the departmental requirements. A teaching faculty from information technology department is given charge of IT Coordinator. Under his guidance System administrator and lab assistants are working to take care of IT infrastructure. If the IT related equipment is not working properly then concerned person should send the query/complaint by Email to [ithelpdesk@kccemsr.edu.in](mailto:ithelpdesk@kccemsr.edu.in)

All the departments take care of regular maintenance of the laboratory equipment. Measure maintenance work is completed during nonacademic period, however regular maintenance work is carried out day to day basis.

A teaching faculty is assigned duty of lab in-charge who maintains dead stock entries with the help of lab assistants and get those entries duly signed by head of the department. Lab equipment are serviced by the concerned manufacturers and service Personnel or lab assistants of respective departments. Wherever necessary, Annual Maintenance Contract (AMC) is also in practice. Safety precautions are listed for each machine and other equipment in the laboratories for safety purpose.

Library is automated using Integrated Library Management System. To enhance the usage of library resources library orientation program for all students is arranged for every year. The Library organizes book exhibitions to spread the awareness amongst students. Library is providing OPAC (Online Public Accessing Catalogue) Facility to access the books easily. Library has IIT library membership, IET membership, Shodhsindhu membership, JGATE membership, National Digital Library. Library provides book bank facility for EBC, SC/ST and Topper students. The institute has library advisory committee for smooth functioning of library. For proper maintenance of library internal audit team is appointed for book stock verification in every five years.

The Institute actively encourages students to participate in various extracurricular activities in order to build team spirit and leadership qualities. The institution yearly organizes Sports day named **Xavion**. Audit

of the sports goods and maintenance requirement is being done by the sports stake holders' i.e. Concerned authorities (sports faculty, coordinators) Requirement for the current academic year is decided on the basis of basis of games in which students will be participating that academic year also considering the deficit of sports good and maintenance in audit. Meeting of stakeholders (staff coordinators, sports faculty, and student coordinator) is being held and the final requirement is decided.

<b>File Description</b>	<b>Document</b>
Link for Additional Information	<a href="#">View Document</a>



## 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 the last five years

**Response:** 27.3

5.1.1.1 Number of students benefited by scholarships and freeships provided by the Government year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
404	416	341	274	197

#### File Description

#### Document

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

[View Document](#)

Any additional information

[View Document](#)

#### 5.1.2 Average percentage of students benefited by scholarships, freeships, etc. provided by the institution besides government schemes during the last five years

**Response:** 1.01

5.1.2.1 Total number of students benefited by scholarships, freeships, etc provided by the institution besides government schemes year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
28	30	0	0	0

#### File Description

#### Document

Any additional information

[View Document](#)

#### 5.1.3 Number of capability enhancement and development schemes –

1. For competitive examinations
2. Career counselling
3. Soft skill development

- 4. Remedial coaching
- 5. Language lab
- 6. Bridge courses
- 7. Yoga and meditation
- 8. Personal Counselling

A. 7 or more of the above

B. Any 6 of the above

C. Any 5 of the above

D. Any 4 of the above

**Response:** A. 7 or more of the above

File Description	Document
Details of capability enhancement and development schemes	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link to Institutional website	<a href="#">View Document</a>

#### 5.1.4 Average percentage of student benefited by guidance for competitive examinations and career counselling offered by the institution during the last five years

**Response:** 48.95

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

2017-18	2016-17	2015-16	2014-15	2013-14
929	1099	211	135	500

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 5.1.5 Average percentage of students benefited by Vocational Education and Training (VET) during



**the last five years**

**Response:** 37.46

**5.1.5.1 Number of students attending VET year-wise during the last five years**

2017-18	2016-17	2015-16	2014-15	2013-14
679	399	296	384	477

**File Description**

**Document**

Details of the students benefitted by VET

[View Document](#)

Any additional information

[View Document](#)

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

**Response:** Yes

**File Description**

**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:** 22.19

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

2017-18	2016-17	2015-16	2014-15	2013-14
69	94	68	73	49

File Description	Document
Self attested list of students placed	<a href="#">View Document</a>
Details of student placement during the last five years	<a href="#">View Document</a>

**5.2.2 Percentage of student progression to higher education (previous graduating batch)**

**Response: 1.72**

5.2.2.1 Number of outgoing students progressing to higher education

Response: 5

File Description	Document
Upload supporting data for student/alumni	<a href="#">View Document</a>
Details of student progression to higher education	<a href="#">View Document</a>

**5.2.3 Average percentage of students qualifying in State/ National/ International level examinations during the last five years (eg: NET/ SLET/ GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil Services/State government examinations)**

**Response: 100**

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

2017-18	2016-17	2015-16	2014-15	2013-14
14	12	23	20	15

5.2.3.2 Number of students who have appeared for the exams year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
14	12	23	20	15

File Description	Document
Number of students qualifying in state/ national/ international level examinations during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 5.3 Student Participation and Activities

<p><b>5.3.1 Number of awards/medals for outstanding performance in sports/cultural activities at national / international level (award for a team event should be counted as one) during the last five years.</b></p> <p><b>Response: 2</b></p>				
<p>5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one) year-wise during the last five years</p>				
2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	2

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at national/international level during the last five years	<a href="#">View Document</a>
e-copies of award letters and certificates	<a href="#">View Document</a>

<p><b>5.3.2 Presence of an active Student Council &amp; representation of students on academic &amp; administrative bodies/committees of the institution</b></p> <p><b>Response:</b></p> <p><b>Student Council:</b></p> <p>Student Council is the apex student body of our institute. Student Council selection is held every year and selected students form Student Council. Selection process (screening process) include round of Group discussion, just a minute test, and personal Interview which is headed by Head of the department, Senior Faculty and Training and Placement Officer. Student Council member consists of General Secretary, Joint Secretary, Sports Secretary, Marketing Head, Technical and Cultural Secretary, Literary Arts (Point and Tally), Literary Arts (ARTS) and Treasurer.</p>
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**Student Council takes active initiative organized following activities:**

- Technical event “DETROIX” is organized and looked after by technical Head along with student volunteers.
- Sports Activities includes outdoor and indoor games like Cricket, Volleyball, Football, Table Tennis, Chess, Carrom are organized by Sports Secretary.
- Cultural Event ”REFLEXIONZ” is organized by Cultural Secretary and General Secretary. They play major role in the conduction of annual cultural festival. The Treasurer (Finance Head) takes care of budget planning and expenses required in various events.
- Various days’ celebration like “Founders Day”, “Teacher day” and “Fresher Day” are organized by Council Every Year.
- Association namely Rotract club, Youth Red Cross, Quality Assurance Committee, NSS help to nurture students in the direction of social, technical and extra-curricular activities.

1. **Youth Red Cross Society:** The Youth Red Cross Society is a worldwide, well known, universally accepted, admired and internationally identified humanitarian service organization.
2. **Quality Assurance Committee:** Quality Assurance Committee is association of student members and all class representative which give out their time on ensuring quality within college campus for example digitization of journal, maintenance of housekeeping and discipline in the campus.
3. **Internal Quality Assurance cell:** Student member are actively involved in giving their ideas about the improvisation of content beyond syllabus and overall feedback for maintaining the quality.
4. **National Service Scheme:** Student actively participate in various social uplifting program
5. **Rotract club :** Students of Rotract club work in the direction of creating a better world which will support neighbor, to share their ideas to join leader and take action to create lasting change.

- Representation of students on academic & administrative bodies/committees of the institution
1. **Training and Placement:** Student members help in organizing various sessions for higher studies awareness, they also helps in organizing various training and placement activities.
  2. **Anti Ragging Committee:** The committee of students is at hand in our institute to ensure compliance with the provisions of the Regulations; and also to monitor and oversee the performance of the Anti-Ragging committee.
  3. **Student Professional society:** Under the student chapters of ISTE and IEEE various technical activities are conducted by students under the guidance of faculty.
  4. **Magazine Committee:** Group of students contributes in preparing college magazines.

**E Cell: Entrepreneur** is need of hour. Team of our student is actively involved in various Project of E cell Activity.

File Description	Document
Link for Additional Information	<a href="#">View Document</a>

**5.3.3 Average number of sports and cultural activities/ competitions organised at the institution level per year**

**Response:** 31.6

5.3.3.1 Number of sports and cultural activities / competitions organised at the institution level year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
38	32	33	33	22

File Description	Document
Report of the event	<a href="#">View Document</a>
Number of sports and cultural activities / competitions organised per year	<a href="#">View Document</a>

## 5.4 Alumni Engagement

**5.4.1 The Alumni Association/Chapters (registered and functional) contributes significantly to the development of the institution through financial and non financial means during the last five years**

**Response:**

Contribution of alumni for institution plays very important role for its overall development. Institute is connected to alumni, via Facebook, Whatsapp, LinkedIn. They visit college, send messages on Facebook and groups to keep us updated about their status as well as about current trends in market, they also mentor their juniors. They have reached good position in their career and also try to help other students of college to achieve success.

Alumni are placed at higher positions in Industries like IBM, Infosys, TCS, Loreal, Wipro, Zycus, Eclinaical, Sutherland, Reliance JIO, CapGemini. Few alumni are entrepreneur and running their companies like YUPS Tech Solutions Private Limited, Four brothers Private Limited, Codebeta etc and few are contributing in Armed force, Metro Railways, NSDL etc. Many have opted for higher studies in India & Abroad. Our Alumni are not only technically good but have also shown their excellence in various field like Novel writing, Photography, sports, Fashion Industries, Blog writing, Acting etc.

Our Alumni are remarkably contributing in social work and also encouraging present students to do many appreciable activities. They have donated solar lamps to many villages, organized health camps, and visited orphan homes, old age home. The institute is proud to share that our alumni are contributing for welfare of underprivileged children like 'Aadhar youth foundation ', 'Divyang Kala Kendra'.

### Contribution of alumni in College:

Institute has Alumni Association, they contribute through Financial and Non Financial means. Our alumni addressed about future scope in engineering, options available in engineering delivered guest lecture to motivate students, seminars & workshops. They also presented career guidance lecture for students. Alumni have conducted FDP on advanced technology like IOT, Advance python for faculties.

Alumni enthusiastically participate to share their ideas, encourage present students for doing their best to achieve success. Institute organizes different activities by inviting alumni whose guidance can be beneficial for our students.

Our alumni are actively involved in teaching learning process and skill development of student by advising and delivering bridge courses and other activities to fill the gap between industry and academics.

File Description	Document
Link for Additional Information	<a href="#">View Document</a>

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

? 5 Lakhs

4 Lakhs - 5 Lakhs

3 Lakhs - 4 Lakhs

1 Lakh - 3 Lakhs

**Response:** ? 5 Lakhs

File Description	Document
Alumni association audited statements	<a href="#">View Document</a>

#### 5.4.3 Number of Alumni Association / Chapters meetings held during the last five years

**Response:** 5

##### 5.4.3.1 Number of Alumni Association /Chapters meetings held year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1	1	1	1	1

<b>File Description</b>	<b>Document</b>
Number of Alumni Association / Chapters meetings conducted during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

NAAC



## Criterion 6 - Governance, Leadership and Management

### 6.1 Institutional Vision and Leadership

#### 6.1.1 The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the institution

**Response:**

The Management and the Principal ensure that the policy statements and action plans are formulated, after careful consideration of all the stakeholders. The action plans for operations are prepared under the supervision and guidance of the Principal and Heads of the departments. Each department has a well-planned academic calendar before the start of each semester. Faculty members are motivated to attend different workshops, FDP (Faculty Development Programs) to keep themselves updated with the recent trends in technology and publish research papers etc.

Management provides financial, material and manpower in order to achieve institution's vision and mission. Budgets include all facets of running the establishment such as capital expenditure, administrative, academic activities etc.

The involvement of leadership is achieved through well-defined systems and organizational structure. Principal delegates academic functions like guest lecture, industry interaction, curricular and extracurricular activity to Head of Departments. The heads of various departments conduct meetings frequently with the faculty to review the activities going on in the department. Faculty members are assigned various committees in the institution and department for decision making and smooth functioning. The institute believes in grooming students technically and socially by involving them in different activities like workshops, technical event (Detroix), technical paper presentation, Sports (Xavion) and Cultural events (Reflexionz), Social Clubs (Rotaract, YRC etc.)

File Description	Document
Any additional information	<a href="#">View Document</a>

#### 6.1.2 The institution practices decentralization and participative management

**Response:**

All the departments of the institute function under the direct supervision of Principal. Day-to-day academic activities of the departments are taken care of by the Head of Departments. Examination related activities are handled by Controller of examinations. Principal supervises Administrative office, examination section, central library and all the Under Graduate and Post Graduate departments will be functioning.

**Decentralization Process link** – <https://drive.google.com/file/d/1JyQ1MmEvr5JflbZbXYDNa-B2GAyNge-i/view?usp=sharing>

The following committees are in accordance to decentralize the academic and administrative activities.



- ? Anti-Ragging Committee
- ? Grievance and Redressal Committee
- ? Internal Complaints Committee
- ? IQAC
- ? Examination Committee
- ? R&D Committee
- ? Entrepreneurship, Incubation and Innovation Committee
- ? Training and Placement Committee
- ? Library Committee
- ? Rotract, YRC etc.

In addition to this Accounts Officer, Librarian, respectively takes care of office related activities, finance related issues, library resources respectively. Other supporting activities are handled by the Admission-in-charge, College Examination coordinator, Cultural coordinator, sports coordinator, Magazine coordinator etc.

#### **Decentralization at Department level**

? Each department is managed by the Head of the Department for the day-to-day administration which includes teaching, learning, co-curricular and extra-curricular activities. Departments have internal working committees to look into academic improvement, examination, student development, infrastructure, etc.

? At department level, the class teacher is responsible for handling students activities.

? The lab in charge with the help of lab assistant maintains laboratories and fulfills all requirements needed from day to day bases

? Each department has different functional coordinators like Cultural coordinator, Technical coordinator, Exam coordinator etc.

#### **Decentralization and Participative Management in the Institution**

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

A Case Study:

Before the start of new semester librarian ask Head of Departments to submit their Book requisition for coming semester. Head of Departments inform the faculty members to submit the book requisition for their respective course. Each faculty prepares their details and submits it to Head of Departments. Head of Departments makes a cumulative summary sheet. More number of book copies is asked if the course is newly introduced in syllabus. These reports are submitted to librarian. Librarian checks the book list and orders the same with Principal's permission.

Proposals of various activities

Co curricular activities play a major role in bridging the gap between Industry and Institute. In each department major faculty submits the proposal of guest lecture or workshop related to their course to Head of Departments. Based on the latest trends Head of Departments finalizes Guest lecturer or Workshop for each year (SE, TE, BE).

File Description	Document
Any additional information	<a href="#">View Document</a>

## 6.2 Strategy Development and Deployment

### 6.2.1 Perspective/Strategic plan and Deployment documents are available in the institution

#### Response:

The Institute has perspective plan for development. Different key area are considered Academic expansion to introduce new programmes, to get permanent affiliation, NAAC Accreditation, NBA Accreditation, MOUs with different industries, infrastructure development construction etc. Few of them are given below

Year	Perspective plan/Strategic Plan	Deployment
2001	Establishment of institute	Introduction of 3 UG Courses :  Electronics and Telecommunication Engineering,  Computer Engineering,  Information Technology
2002	Expansion in Intake	Intake increased  Electronics and Telecommunication Engineering- 45 to 90  Computer Engineering - 45 to 90

2008	New Program Introduced	New Program Electronics Engineering with intake 60 introduced
2010	MMS	New Program MMS with intake 60 introduced
2013	ISO Certification	ISO 9001:2008 certification done.
2016-17	Introduction of E-cell	Formation of Entrepreneurship Cell
2016-17	Introduction of installation of Solar in institute	Solar Panel installed for alternate power generation (2017-18)
2017-18	Formation of IQAC	IQAC formed
2017-18	Adoption of a village under SAGY	Adoption of village Pimpri, Thane
Short term perspective planning	<ul style="list-style-type: none"> <li>• ISO Certification</li> <li>• MOUs with International and National Organizations</li> <li>• Consultancy Services</li> <li>• Cader Fulfillment</li> </ul>	
Long term perspective planning	<ul style="list-style-type: none"> <li>• Industry Connected Lab</li> <li>• 20% Ph.D faulty</li> <li>• NBA Accreditation</li> <li>• Inclusion of intake</li> <li>• Autonomous status for institute</li> </ul>	

### Case Study

A critical and continuous need to evaluate the degree to which the institution meets the requirements of stakeholders and to improve the ability to continue to do so was required. To achieve this, the institute decided to go for ISO audit.

#### ISO 9001:2008

With a view to enhance student satisfaction, the institute has put in efforts improve its academic processes. The syllabus pattern was modified by the university to credit based system in 2012-13. This brought in the 80:20 pattern of evaluation wherein the end semester exam marks was reduced to 80 marks from the earlier pattern of 100 marks. The remaining 20 marks was allotted to internal class test which was divided between two class tests and was averaged out. This class test system meant that students will have to study regularly throughout the semester. This improved the end semester results. The institute conducted hands on workshops for students and faculty development programs and international conference. The institute adopted Outcome based education. This further improved the quality which led to the institute getting ISO 9001:2008 in 2013-14.

#### ISO 9001:2015

Further with the introduction of Choice based credit system in 2016-17 more interdisciplinary electives is

introduced. This combined with certificate, add-on, and vocational courses provided students more opportunities to learn latest technologies and be more industry ready. Faculty training and increase in research publications of students and faculty is a further goal which is achieved. This further improved the results of students. The institute got audited and certified for ISO 9001:2015 standard.

File Description	Document
Any additional information	<a href="#">View Document</a>

### 6.2.2 Organizational structure of the institution including governing body, administrative setup, and functions of various bodies, service rules, procedures, recruitment, promotional policies as well as grievance redressal mechanism

#### Response:

Organizational activities of KCCEMSR is handled by following bodies,

#### ? **Governing Council**

The Governing Council makes all the elite decision. The main purpose of the Governing Council is to decide the overall strategic direction and educational quality of the college. It includes determining and approving the institution strategic plan in terms of academic aim and objectives of the institution. It also identifies and strategizes on matters related to finance, staffing and infrastructure etc. It mainly provides a roadmap in order to accomplish the mission and vision of the institute.

#### ? **Local Management Committee**

As per the Maharashtra Universities Act. ,there shall be a separate **local managing committee** for every affiliated college or institution, consisting of the following members : (a) President or Chairman of the management—Chairman; (b) Secretary of the management or his nominee; (c) three local members representing different fields of the area, nominated by the management; (d) three teachers, elected by the teachers of the college or institution; (e) one non-teaching employee, elected by the non-teaching employees of the college or institution; (f) Principal—Member-Secretary

#### ? **Internal Quality Assurance Cell (IQAC)**

To enhance the quality improvements in the academic process and also as a pre-accreditation exercise Internal Quality Assurance Cell (**IQAC**) is formed. This committee develops an action plan for academic year; interact with colleges/students/Management/Society to assess and elicit suggestions/recommendation in important areas like academic program, improving infrastructural facilities

etc. and to share best practices with others.

### ? **Entrepreneurship Cell**

This cell mainly dedicated to promoting the spirit of **entrepreneurship** among students. The purpose of entrepreneurship cell is i) to bring out entrepreneurial flair in students ii) to make students understand entrepreneurial attitude and entrepreneurial skills iii) to provide them with a platform which gives them number of innovative opportunities to develop the entrepreneur in them.

### ? **Research and Development**

In order to strengthen and expand the **research** activities in the institute, R&D was established.

### · **Grievance Redressal**

Anti-Ragging Committee: Ragging Complaints will be handled as per Government Guidelines.

ICC: Women harassment complaints will be handled as per Government Guidelines by respective section.

### **Recruitment Policies**

- o Regular and Adhoc appointment policies

Regular appointment of the faculty member on regular basis is made through University selection committee. The selected candidates are appointed on Probation period of 2 years and after satisfactory completion of period their services are confirmed.

For Adhoc appointment of the faculty, the appointment for the period of Semester or Academic year is made through the internal selection Committee.

<b>File Description</b>	<b>Document</b>
Any additional information	<a href="#">View Document</a>

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

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

A. All 5 of the above

B. Any 4 of the above

C. Any 3 of the above

D. Any 2 of the above

**Response:** C. Any 3 of the above

File Description	Document
Screen shots of user interfaces	<a href="#">View Document</a>
Details of implementation of e-governance in areas of operation Planning and Development,Administration etc	<a href="#">View Document</a>

#### 6.2.4 Effectiveness of various bodies/cells/committees is evident through minutes of meetings and implementation of their resolutions

**Response:**

The institute has various Authorities/ Bodies/ Committees at various levels for effective functioning of the institute and decision making. Quality is maintained by institute through various committees.

#### IQAC

Internal Quality Assurance Cell (IQAC) has been formed in 2017 and is functional in overseeing quality matters but quality initiatives have been taken by institute right from its inception. From year 2013-14 on Engineers day institute publishes technical magazine 'Technovision'; technical papers by students. The institute has conducted International conferences to help researchers from come together and share their ideas. The institute has undergone ISO: 2008 and ISO:2015 certifications. The institute has adopted outcome based education from the year 2014-15 and has been using ICT techniques like MOODLE, GOOGLE Classroom etc. With a view to boost entrepreneurship the institute has formed Entrepreneurship cell in the year 2015-16. For alternate energy generation the institute in the year 2016-17 had decided to install rooftop solar panels which are providing energy to the grid. The institute has adopted a village in the year 2017-18 under the Sansad Adarsh Gram Yogna (SAGY) of All India Council for Technical Education(AICTE).

## Student Council

Student Council is the apex body of institute. Student Council selection is held every year and selected members form Student Council. Student Council takes active initiative in technical event “Detroit” , sports Activities ‘Xavion’, cultural events ”REFLEXIONZ”. Various days celebration like “Founders Day”, “Teacher day” and “Fresher Day” are organized by Council Every Year. They ate also associated with Rotract club, Youth Red Cross, Quality Assurance Committee, NSS to nurture student in the direction of social, Technical and Extra Curricular activities.

File Description	Document
Any additional information	<a href="#">View Document</a>

## 6.3 Faculty Empowerment Strategies

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

#### Response:

The effective measure made for teaching and non teaching staffs are as follows:

- ? Teaching Staff are appreciated on teacher’s day.
- ? Health checkup camps are organized in the campus.
- ? Staff members are permitted to attend seminars, workshops and conferences at State, National and International levels and provision is made for the reimbursement of the registration fee and traveling allowances.
- ? They are provided with OD (on Official Duty) to attend such programs.
- ? Staff is encouraged to pursue higher education and is given flexible timing and/ or partial load to complete their work.
- ? Library and internet facilities are made available for staff members to pursue research.
- ? Departments are provided with funds to conduct the seminars, conferences, STTP etc.
- ? Collaborate with Industry and different institutions for Faculty Development Program.
- ? The faculty members are rewarded with additional increments for completion of their Ph.D.
- ? To enhance teaching skills the faculty members are encouraged to visit various research centers.
- ? Fee concession to the children of staff is provided if they take admission in the institute.

- ? They are promoted to key positions once they prove their competencies.
- ? Book allowance is provided.
- ? Quality infrastructure facilities are provided to the staff.
- ? Medical leave facility is provided.
- ? Gymkhana is provided for staff to maintain good health.
- ? Maternity leave is provided to the faculty.
- ? Time concession is provided to breast feed the infant.
  - Stress management programs are hosted for staff.

File Description	Document
Any additional information	<a href="#">View Document</a>

**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:** 35.31

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

2017-18	2016-17	2015-16	2014-15	2013-14
67	70	5	3	3

File Description	Document
Details of teachers provided with financial support to attend conferences,workshops etc during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**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:** 4



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

2017-18	2016-17	2015-16	2014-15	2013-14
8	4	2	2	4

File Description	Document
Reports of Academic Staff College or similar centers	<a href="#">View Document</a>
Details of professional development / administrative training programs organized by the Institution for teaching and non teaching staff	<a href="#">View Document</a>

**6.3.4 Average percentage of teachers attending professional development programs viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Program during the last five years**

**Response:** 31.44

6.3.4.1 Total number of teachers attending professional development programs, viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Programs year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
50	28	8	25	23

File Description	Document
Details of teachers attending professional development programs during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**6.3.5 Institution has Performance Appraisal System for teaching and non-teaching staff**

**Response:**

**Faculty appraisal**

The appraisal form is the primary basis for determining the performance level that merits the continued employment, promotion, annual increment, etc. this evaluation scheme reflect the faculty performance and

facilitate means for continuous improvement in their career.

Faculty Performance Index(FPI) is divided into three phases.

1. Academic Performance Index(API)
2. Research Contribution Index(RCI)
3. Institutional Development Index(IDI)

**Academic Performance Index (API)** covers the theory lectures assigned and the target achieved .This also evaluates the result of current year and a comparative statement of previous two years. Good practices are a part of this index wherein, the course file, additional topic beyond syllabus, steps to self- learning , role as mentor, case studies, student centric method such as experimental learning are assessed. Moreover, innovation in teaching, difficulty faced, new methods identified, Improvement in results are sorted. The participation in training programme is sought. Student's feedback also plays an important role.

**Research Contribution index(RCI)** This criteria lay emphasis on journal publication, book published, research undertaken, conference attended/ workshop organized, professional activities, and research progress is monitored.

**Institutional Development Index(IDI)** This criteria throws light on completion of work assigned in term of time table coordination, Library, Lab and Project (Incharge). It is a complete assessment of all departmental duties as coordinator (NBA/NAAC, Placement, Group tutorship, mentoring) and other responsibility like exam cell duties, and any other given by HOD's and Principal. It also covers taking responsibilities in clubs, Professional societies, event managers of club programme, admission process and student union activities.

**Non Teaching Performance Appraisal** take into consideration the Attitude towards co workers, public (in case of admission), *Perceptivity and sensitivity* is judged on the basis (to the needs of students ,faculty and institution) the ability to work effectively with faculty and student, responsibility in dealing with the task assigned .The other monitors *are initiative to improve work, voluntary assistance* to coworkers, and the *positive response* when receiving an instruction, guidance and correction by superior. *The skill in judgment*, decision making, the ability and ease in expressing ideas, opinions and information clearly and accurately in written and oral form. *Potentiality* judges the faculty on basis on talent, ability to respond to training or ambition for growth. *Innovation and Creativity* is the area where their voluntary work is taken for assessment. To estimate their *job knowledge* they are monitored on their hand on experience, work standards, focus and completion of work on time .*Under Related accomplishments* their contribution and efforts beyond generally assigned responsibility is monitored.

All the faculty undergoes it to identify and assess ones strength and weakness in work performance .This entire procedure is carried out by **Faculty Appraisal Panel chaired by Principal.**

File Description	Document
Any additional information	<a href="#">View Document</a>

## 6.4 Financial Management and Resource Mobilization

### 6.4.1 Institution conducts internal and external financial audits regularly

**Response:**

The institute has a well-established mechanism for conducting internal and external audits. Audit is conducted every quarter by an internal Auditor M/s. A More & Co., Thane. Also internal and external audit is conducted in every financial year to ensure financial compliance. Normally statutory financial audit is conducted in the month of June /July. Finalization of accounts is completed in August and audited statements are prepared in August duly signed by the Principal, Trustee and chartered accountant. Reports of auditing agencies are submitted to the Principal and the Managing committee of the institute.

As per the annual audit reports from the external auditing agency, the financial statements are prepared under historical cost convention on accrual basis Fixed assets are stated at cost of acquisition or construction less depreciation. Cost comprises of the purchase price and other attributable costs including expenses and financial cost during the construction period. Depreciation is provided as per the Written down Value method and as per rates and procedures laid down under the Income Tax Act 1961.

Fees from students are recognized as income. Interest on fixed deposit is recognized as income at the end of year. Interest on savings accounts is recognized as income as soon as the same is credited by bank to savings account. Investments are stated at cost plus accumulated interest till the date of Balance Sheet. The college follows generally accepted accounting principles.

File Description	Document
Link for Additional Information	<a href="#">View Document</a>

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

**Response:** 9.98

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

2017-18	2016-17	2015-16	2014-15	2013-14
0.2	0.85	1.06	5.764	2.10303

File Description	Document
Details of Funds / Grants received from non-government bodies during the last five years	<a href="#">View Document</a>
Annual statements of accounts	<a href="#">View Document</a>

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

#### Response:

The main source of funds for institute is the fees received from students. Directorate of Technical Education (DTE) governs all admissions in the institute. Policies for reservations and scholarships of Maharashtra Government are applicable to students admitted through centralized admission process. As per these policies, 100% fees of students from SC, ST, SBC, NT categories and 50% fees of students from OBC category is paid by Government in the form of scholarships. 50% fees of Economically Backward Open category students come from Government. Approximately 10% of the total fees comes from Government without any predefined disbursement schedule.

Institute also provides its IT infrastructure and set up for conducting online examinations like GATE. The infrastructure is provided for such examinations on holidays only and institute gets infrastructure utilization charges. Every year, budget is prepared well in advance after taking into consideration requirements of every department. Each department prepares its budget based on the requirements such as equipment, computers and consumables required for the next academic year. The budget reviewed by role holders' committee, management and approved after necessary changes. As and when required, the institute makes a provision for advance/ additional funds. The committee discusses requirements and decides the priorities while allotting financial resources for various purposes also ensuring optimum use of available financial resources. The Governing Body studies annual expenditure, scrutinizes the budget and provides feedback for efficient use of financial resources. Department heads ensure procurement of suitable equipment with the right specifications at competitive, optimal prices. Budget utilization is periodically reviewed by the management and corrective measures are taken, if required.

Financial audits are conducted by a chartered accountant every financial year to verify compliance with established processes. Fixed Deposits, current and savings accounts are kept reserved for variety of expenditure. The college has a well formulated financial policy which ensures effective and optimal utilization of finances for academic, administrative and development purposes which help ultimately in realizing the institute's vision.

File Description	Document
Link for Additional Information	<a href="#">View Document</a>

## 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:**

KCCEMSR is an Engineering college in Thane affiliated to Mumbai University. Since its inception institute has made concise and concrete efforts to develop and improve the academic and administrative performance. KCCEMSR has established the Internal Quality Assurance Cell (IQAC) in year 2017. IQAC will become a part of an institution's system and work towards realizing the goals of quality enhancement and sustenance. IQAC functions as a central point for strategizing quality methods it meant for planning, guiding and monitoring Quality Assurance and Quality Enhancement activities of the institution. KCCEMSR IQAC may channelize and systematize the effect and measures of the institution towards academic excellence.

The Internal Quality Assurance Cell (IQAC) of the college is constituted from the academic year 2017-2018 with the following members

Sr No	Name	Designation	
1	Dr. Hansraj Guhilot	Chairman	
2	Dr. Arundhati Chakrabarti	IQAC Coordinator	
3	Prof. Rajiv Iyer	Member	
4	Dr. Shelley Oberoi	Member	
5	Prof. Amarja Adgaonkar	Member	
6	Prof. Shirkes Poojari	Member	
7	Prof. Vaishali Bhalerao	Member	
8	Prof. Ashwini Jayawant	Member	
9	Prof. Varsha Wangikar	Member	
10	Prof. Sonal Balpande	Member	
11	Mr. Mahesh Dalvi	Office Superintendent	

12	Ms. Nayna Khandekar	Lab Assistant	
13	Mr. Anil Mourya	Lab Assistant	
13	Dr. Nitin Kale	External Advisor	
14	Mrs. Rashmi Joshi	NGO	
15	Mr. Kartik Yadav	Student Representative - CDC	
16	Mr. Dilip Mane	Alumni	

As quoted by William A. Foster **“Quality is never an accident; it is always the result of high intention, sincere effort, intelligent direction and skilful execution; it represents the wise choice of many alternatives.”**

Hence institute work towards continuous improvement in the entire operations of the Institution.

#### Major Functions of IQAC

- The cell supports the teaching and learning goals articulated in the institution’s strategic plan.
- Develop metrics to assess the effectiveness of curricular, co-curricular and extracurricular activities.
- A format for Course file on teaching and working has been prepared by IQAC
- Measure and document actual performance, determine deviations and provide feedback from students, parents, and other stockholders for improvement.
- Developing a quality culture in the Institute.
- Acting as a nodal agency of the institution for quality-related activities

#### Initiative by IQAC

**ECO club:**

Eco Clubs play an important role in creating environmental awareness amongst the future generation. The activities under this scheme are: to motivate the students to keep their surroundings green and clean by undertaking plantation of trees, Motivate students to imbibe habits and life style for minimum waste generation, source separation of waste and disposing the waste to the nearest storage point, Organize tree plantation programmes, awareness programmes regarding various environmental issues and educate student about re-use of waste material & preparation of products out of waste.

File Description	Document
Any additional information	<a href="#">View Document</a>

**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**

**Response:**

The resolutions made by IQAC have a major impact on quality of academic, extra-curricular and co-curricular activities in the institute. The committee has developed some academic initiatives for improving academic quality of students. Few major quality initiatives are suggested by the committee like Course file format for faculty, different type of feedback, academic audit, YRC, Retracted etc. Also the committee decided to arrange different guest lecture, making campus green with Eco Club.

**Feedback:**

The institute arranges the annual alumni meet and collects feedback from the alumni. These feedbacks were analyzed and proper measures were taken to improvising the things. The feedback focuses on curriculum, teaching learning processes and learning outcomes. Every semester, feedback of student regarding the teaching learning process is taken. The analysis of this feedback is done and remarks are conveyed to the faculties for improvement by the Head of the departments. Course Exit Survey is also filled by the students for every course in every semester and final year students complete a programme exit survey. Institute has feedback on Workshops/Guest Lecture, Delegate's, and FDP/STTP etc. With this Institute also has feedback from different stakeholders on Syllabus Design.

**Course File**

Course file is prepared by faculty to document the teaching learning process. Each faculty prepares course file for every course taken. Earlier course file was prepared department wise.

IQAC had initiated upgradation of faculty course file so that uniform formats could be followed throughout the institute. Further several parameters like fast and slow learners, method of CO-PO attainment, target setting and innovation in teaching and learning were included. Activities for all students were planned and well documented in the course file.



File Description	Document
Any additional information	<a href="#">View Document</a>

### 6.5.3 Average number of quality initiatives by IQAC for promoting quality culture per year

**Response:** 3.8

#### 6.5.3.1 Number of quality initiatives by IQAC for promoting quality year-wise for the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
6	2	3	3	5

File Description	Document
Number of quality initiatives by IQAC per year for promoting quality culture	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 6.5.4 Quality assurance initiatives of the institution include:

1. Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback collected, analysed and used for improvements
2. Academic Administrative Audit (AAA) and initiation of follow up action
3. Participation in NIRF
4. ISO Certification
5. NBA or any other quality audit

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

**Response:** B. Any 3 of the above



File Description	Document
e-copies of the accreditations and certifications	<a href="#">View Document</a>
Details of Quality assurance initiatives of the institution	<a href="#">View Document</a>

**6.5.5 Incremental improvements made during the preceding five years (*in case of first cycle*) Post accreditation quality initiatives (*second and subsequent cycles*)**

**Response:**

**6.5.5 Incremental improvements made for the preceding five years (in case of first cycle)**

The institute has been making incremental initiatives in the last five years in academic and administrative domain. From year 2013-14 on Engineers day institute publishes technical magazine 'Technovision' which is a collection of technical papers by students. The institute has conducted International conferences to help researchers from come together and share their ideas. The institute has undergone ISO: 2008 and ISO:2015 certifications. The institute has adopted outcome based education from the year 2014-15 and has been using ICT techniques like MOODLE, GOOGLE Classroom etc. With a view to boost entrepreneurship the institute has formed Entrepreneurship cell in the year 2015-16. For alternate energy generation the institute in the year 2016-17 had decided to install rooftop solar panels which are providing energy to the grid.

The institute has adopted a village in the year 2017-18 under the Sansad Adarsh Gram Yogna (SAGY) of All India Council for Technical Education(AICTE).

## Criterion 7 - Institutional Values and Best Practices

### 7.1 Institutional Values and Social Responsibilities

#### 7.1.1 Number of gender equity promotion programs organized by the institution during the last five years

**Response:** 15

##### 7.1.1.1 Number of gender equity promotion programs organized by the institution year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
4	5	4	1	1

File Description	Document
Report of the event	<a href="#">View Document</a>
List of gender equity promotion programs organized by the institution	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 7.1.2

##### 1. Institution shows gender sensitivity in providing facilities such as:

1. Safety and Security
2. Counselling
3. Common Room

**Response:**

To encourage gender equity initiatives, Women Development Committee / Gender Equity Committee (WDC) have been established. It is primarily to empower girl students, to enhance understanding of gender issues and to make the institute campus a safe place for all students and staff members.

There are various objectives of the cell mainly to identify strong leadership, change making and building capacity among women. With an aim of intellectual and social upliftment of the all students and staff members, the cell stands for facilitating women's empowerment through guest lectures, seminars, awareness programs, and other welfare activities.

a) Safety and Security:

The institute is committed towards a safe, conducive work, academic environment and also providing a platform of equal opportunities for their students and all staff members.

- A safe driving session was organized by the institute with HONDA for girls and faculties.
- Social outreach programme such as an event of “Bike Rally” with “Girls Child Issue” was celebrated on International Women’s Day to spread the social message beyond the institute campus.
- The institute organized a workshop on “Self Defence Training Program” for girls.
- The institute organized a Flash Mob activity on the theme of “Women Safety Awareness” for creating social awareness on the same.
- The institute has established an Anti Ragging Committee. The Internal Complaint Committee is also formed to address issues related to sexual harassment according to university guidelines.

b) Counselling:

- To raise awareness regarding various issues like psychological issues, sanitation, and sexual harassment, Women Development / Gender Equity Committee takes initiatives for counselling. The session of “Awareness on Sexual Harassment at Workplace” was conducted by WDC for staff and students.

c) Common Room:

The institute has Girls Common room and Boys common room as per the requirements.

Year	Title of Program	Date & Duration (From-To)	Number of participants by Gender	
			Female	Male
2017-18	YOGA AND MEDITATION SESSION ( INTERNATIONAL YOGA DAY)	21 June 2018	47	10
	LAWYER SESSION AWARENESS ABOUT PROTECTION AGAINST SEXUAL HARASSMENT OF WOMEN AT WORKPLACE	14 March 2018	36	34
	FLASH MOB AT BHANDUP STATION AND TALAV PALI (THANE)	09 February 2018	17	22
	SELF DEFENCE	17 January 2018	25	0
	WOMEN’S SAFETY DRIVE	10 January 2018	34	0
	CYBER CRIME AWARENESS	02 January 2018	71	0

	SESSION			
<b>2016-17</b>	STRESS MANAGEMENT (WORLD HEALTH DAY)	07 April 2017	34	4
	HEALTHFULNESS MEDITATION SESSION	09 March 2017	50	9
	HEALTH CAMP FOR GIRLS	12 August 2016	60	1
<b>2015-16</b>	YOGA SESSION (INTERNATIONAL YOGA DAY)	21 June 2016	30	10
	STRESS MANAGEMENT (WORLD HEALTH DAY)	07 April 2016	40	10
	SOCIAL AWARENESS ON ALCOHOLISM, CYBER CRIME AND TRAFFIC RULES	05 January 2016	65	-
	HEALTH CAMP FOR GIRLS	01 August 2015	50	10

File Description	Document
Any additional information	<a href="#">View Document</a>

<p><b>7.1.3 Alternate Energy initiatives such as:</b></p> <p><b>1. Percentage of annual power requirement of the Institution met by the renewable energy sources</b></p> <p><b>Response: 57.14</b></p>
<p>7.1.3.1 Annual power requirement met by the renewable energy sources (in KWH)</p> <p>Response: 80</p>

7.1.3.2 Total annual power requirement (in KWH)	
Response: 140	
<b>File Description</b>	<b>Document</b>
Details of power requirement of the Institution met by renewable energy sources	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

<b>7.1.4 Percentage of annual lighting power requirements met through LED bulbs</b>	
<b>Response:</b> 12.21	
7.1.4.1 Annual lighting power requirement met through LED bulbs (in KWH)	
Response: 6400.8	
7.1.4.2 Annual lighting power requirement (in KWH)	
Response: 52416	
<b>File Description</b>	<b>Document</b>
Details of lighting power requirements met through LED bulbs	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

<p><b>7.1.5 Waste Management steps including:</b></p> <ul style="list-style-type: none"> <li>• Solid waste management</li> <li>• Liquid waste management</li> <li>• E-waste management</li> </ul> <p><b>Response:</b></p> <p>The institute has initiated the “Waste Management” concept with the tagline “EXCEL THE GREENER WAY”.The institute has MOU with ECOROX. It is with an intention of recycling the waste in the direction of ecological conservation. The club has joined hands with ECOROX to inculcate environmental consciousness.</p> <ul style="list-style-type: none"> <li>• Solid waste management</li> </ul> <p>1.The main objective of solid waste management is to create clean and green environment in the campus.</p>
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2. The institute adopts the policy of Reduce, Recycle and Reuse (3R's). ECO CLUB has installed compost pit in association with ECOROX and aims to recycle the organic solid waste of the institute campus. With this, it is able to recycle canteen waste and dried leaves from the trees into manure.
3. The produced manure is being utilized in the institute garden.
4. All departments using single sided papers for writing and printing purpose.
5. Old newspaper and waste paper are collected yearly. The institute has given 4011 kg of paper waste for recycling purpose.
6. The institute driven plastic collection drive to spread awareness of environmental issues and carcinogenic effects of polymers,

- Liquid waste management

1. Institute has an efficient drainage system for liquid waste management.
2. No specific hazardous liquid waste is generated by other laboratories of the institute.
3. Sewage water, Lab washing water, and canteen water is let out in drains. The drains are connected to the creek
4. Liquid non-hazardous chemical wastes generated from the chemistry laboratory is diluted or neutralized and discarded.

- E-waste management

1. The club has also initiated the practice of collecting e-waste, periodically from staff, students and neighboring societies and hands over it to a recognized governmental organization for recycling.
2. The club has conducted E-waste management drive in association with ECOROX and E-Incarnation on 5th June 2018 on account of World Environment Day. 400 kg E-waste has been collected and sent for scientific recycling.
3. The institute has been awarded by E incarnation and ECOROX for these thoughtful efforts.

Sr. No.	Initiatives taken
1	Plastic collection drive
2	E-waste collection drive
3	Seminar on Domestic waste management
4	Waste paper collection drive
5	Compost pit inauguration

File Description	Document
Any additional information	<a href="#">View Document</a>

### 7.1.6 Rain water harvesting structures and utilization in the campus

#### Response:

There is no provision of rain water harvesting in the institute. The institute had interest in developing ground rain water harvesting project. However, due to locational reasons like proximity of the college with the creek area and high water table level; it is not feasible to execute underground rain water harvesting.

Roof top rain water harvesting is another technique. In which rain water is collected from the roof and stored for future usage. The institute has already installed solar panels on roof top, so terrace area cannot be utilized for this purpose.

The total use of water in the institute is around 5995 liters per day. So the institute ensures that water wastage should be minimized by the regular maintenance of leaky pipes and taps and also emphasizes on the significance of water conservation among students and staff members.

### 7.1.7 Green Practices

- **Students, staff using**
  - a) **Bicycles**
  - b) **Public Transport**
  - c) **Pedestrian friendly roads**
- **Plastic-free campus**
- **Paperless office**
- **Green landscaping with trees and plants**

#### Response:

- **Students, staff using**

#### 1. Bicycles

- The institute is promoting prime minister's initiative "AAO CYCLE CHALAYE" by providing cycles to do nearby outdoor works.

#### 1. Public Transport

- Students and staff are using local train and shared auto rickshaws system for transport.
- Institute is also following the practice of “NO VEHICLE DAY” celebration to save the environment and mother earth.

#### 1. Pedestrian friendly roads

- Pedestrian friendly roads provide a safe path for people to walk. The institute has built path using paver blocks so that walking in college campus is comfortable and safe.

- **Plastic-free campus**

The institute is trying to make plastic free campus by various initiatives. In regard to this, plastic collection drive was conducted to spread awareness of their harmful effects.

- **Paperless office**

The institute is also trying to minimize the use of paper by using various softwares for Library, Exam cell and Accounts.

- **Green landscaping with trees and plants**

As a part of Green Practices, the institute has developed 2 lawns spreading over area of 1161 sq. mts. There are 178 big + 63 small numbers of tree species with botanical nomenclature planted along the boundary of the entire campus.

1. There is plantation of various flowers, fruits and vegetables in institute campus in order to improve air quality of campus and its surrounding. Tree plantation event with help of staff has helped in fostering environmental sensitivity in institute campus both among teaching staff and students. The institute follows the tradition of planting a sapling by the hands of guests visiting the institute for various events and occasions.
2. Garden areas are assigned to various clubs. Full time gardener is assigned for watering, planting and maintaining the plants.
3. Institute has enrolled on [greenarmy.mahaforest.gov.in](http://greenarmy.mahaforest.gov.in) for tree plantation.

Apart from this, institute has installed alternative energy initiative in form of 80KW Grid-connected Solar Panels on rooftop in order to take the benefits of solar energy and become eco-friendly.

Sr. No.	Initiatives taken	Date
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1	Audit to check usage of public and private transport	21 June 2018
2	Bags distribution activity	16 June 2018
3	Plastic Collection Drive	11 June – 15 June 2018
3	Tree Plantation on 5th June (World Environment day)	05 June 2018
4	Installation of solar panel	09 March 2018
5	Tree plantation at Pimpri	08 March 2018
6	Green and Clean Drive	18 November 2017
7	Swachh Bharat Abhiyan	19 October 2016
8	Tree plantation by Guest	
8.1	Dr. Shripad Taklikar, Dr. Kulwant Singh, Dr. Shamlan M. S. Reshmwala	30 June 2018
8.2	Prof. Shrikhande	28 February 2018
8.3	Prof. A. S. Khanna	14 February 2018
8.4	Dr. Allhad Kuwadekar	13 January 2018
8.5	Dr. Dubewar	18 November 2017

File Description	Document
Any additional information	<a href="#">View Document</a>

**7.1.8 Average percentage expenditure on green initiatives and waste management excluding salary component during the last five years**

**Response:** 1.26

7.1.8.1 Total expenditure on green initiatives and waste management excluding salary component year-

wise during the last five years(INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
43.45	1.81	1.53	1.67	1.67

File Description	Document
Green audit report	<a href="#">View Document</a>
Details of expenditure on green initiatives and waste management during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 7.1.9 Differently abled (Divyangjan) Friendliness Resources available in the institution:

1. Physical facilities
2. Provision for lift
3. Ramp / Rails
4. Braille Software/facilities
5. Rest Rooms
6. Scribes for examination
7. Special skill development for differently abled students
8. Any other similar facility (Specify)

A. 7 and more of the above

B. At least 6 of the above

C. At least 4 of the above

D. At least 2 of the above

**Response:** A. 7 and more of the above

File Description	Document
Resources available in the institution for Divyangjan	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 7.1.10 Number of Specific initiatives to address locational advantages and disadvantages during the last five years

**Response: 15**

7.1.10.1 Number of specific initiatives to address locational advantages and disadvantages year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
9	2	2	1	1

File Description	Document
Number of Specific initiatives to address locational advantages and disadvantages	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**7.1.11 Number of initiatives taken to engage with and contribute to local community during the last five years (Not addressed elsewhere)**

**Response: 9**

7.1.11.1 Number of initiatives taken to engage with and contribute to local community year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
4	2	1	1	1

File Description	Document
Report of the event	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**7.1.12**

**Code of conduct handbook exists for students, teachers, governing body, administration including Vice Chancellor / Director / Principal /Officials and support staff**

**Response: Yes**

File Description	Document
Any additional information	<a href="#">View Document</a>
URL to Handbook on code of conduct for students and teachers , manuals and brochures on human values and professional ethics	<a href="#">View Document</a>

<b>7.1.13 Display of core values in the institution and on its website</b>	
<b>Response:</b> Yes	
File Description	Document
Provide URL of website that displays core values	<a href="#">View Document</a>

<b>7.1.14 The institution plans and organizes appropriate activities to increase consciousness about national identities and symbols; Fundamental Duties and Rights of Indian citizens and other constitutional obligations</b>	
<b>Response:</b> Yes	
File Description	Document
Details of activities organized to increase consciousness about national identities and symbols	<a href="#">View Document</a>

<b>7.1.15 The institution offers a course on Human Values and professional ethics</b>	
<b>Response:</b> Yes	
File Description	Document
Provide link to Courses on Human Values and professional ethics on Institutional website	<a href="#">View Document</a>

<b>7.1.16 The institution functioning is as per professional code of prescribed / suggested by statutory bodies / regulatory authorities for different professions</b>	
<b>Response:</b> Yes	
File Description	Document
Provide URL of supporting documents to prove institution functions as per professional code	<a href="#">View Document</a>

<b>7.1.17 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal</b>	
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**harmony and social cohesion as well as for observance of fundamental duties during the last five years**

**Response: 21**

7.1.17.1 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
13	3	2	1	2

File Description	Document
List of activities conducted for promotion of universal values	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**7.1.18 Institution organizes national festivals and birth / death anniversaries of the great Indian personalities**

**Response:**

There are numerous occasions organized and celebrated in the institute; signifying cultural traditions in form of birth and death anniversaries of the great Indian personalities every year. These activities are conducted both at the departmental level and institute level.

Highlights of some activities organized:

- On the occasion of Dayanand Saraswati birth anniversary, the institute organized a Group Discussion Competition for students of all years on current socio-cultural issues and abstract topics.
- On the occasion of birth anniversary of Netaji Subhash Chandra Bose, Department of Humanities and Applied Sciences organized an extempore competition for all first-year students on 23rd January 2018. This activity helped in developing public speaking skills of students and also to give them opportunity to express opinions on social topics.
- On the occasion of birth anniversary of Swami Vivekananda and National Youth Day, the department of Humanities and Applied Sciences organized an essay writing competition for all first-year students on 12th January 2018, the birth anniversary of Swami Vivekananda and as an observance of national youth day. Three topics with the context of occasion were given to students for essay writing such as Confidence is the key to success, Role of Youth in Modern India and Religious tolerance in India.
- On the occasion of death anniversary of Mahatma Gandhi and National Martyrs' Day, faculty members and students of all years took pledge of non-violence on 30th January 2018, precisely at 5.12 pm; the exact time when the great soul left the world after giving the message of non-violence.

- On the occasion of birth anniversary of Dr. M. Visvesvaraya 'Engineer's Day' is celebrated every year.
- On the occasion of birth anniversary of Dr. Sarvapalli Radhakrishnan cultural programs are organized for all the faculty members on 05th September every year.

Sr. Nos.	Date of the activity	Name of the activity
1	12 February 2018	Group Discussion Competition-Dayanand Saraswathi birth anniversary
2	30 January 2018	Martyr's Day Celebration-Mahatma Gandhi death anniversary
3	23 January 2018	Extempore Competition-Netaji Subhash Chandra Bose birth anniversary
4	12 January 2018	Essay Competition- Swami Vivekanand birth anniversary
5	15 September 2017	Engineers Day Celebration- Dr. M. Visvesvaraya birth anniversary
6	05 September 2017	Teachers Day Celebration- Dr. Sarvapalli Radhakrishnan birth anniversary
7	15 September 2016	Engineers Day Celebration- Dr. M. Visvesvaraya birth anniversary
8	05 September 2016	Teacher's Day Celebration- Dr. Sarvapalli Radhakrishnan birth anniversary
9	15 September 2015	Engineers Day Celebration- Dr. M. Visvesvaraya birth anniversary
10	05 September 2015	Teacher's Day Celebration- Dr. Sarvapalli Radhakrishnan birth anniversary
11	15 September 2014	Engineers Day Celebration- Dr. M. Visvesvaraya birth anniversary
12	05 September 2014	Teacher's Day Celebration- Dr. Sarvapalli Radhakrishnan birth anniversary
13	15 September 2013	Engineers Day Celebration- Dr. M. Visvesvaraya birth anniversary

<b>File Description</b>	<b>Document</b>
Any additional information	<a href="#">View Document</a>

**7.1.19 The institution maintains complete transparency in its financial, academic, administrative and auxiliary functions**

**Response:**

**Financial transparency-** In terms of financial transparency, the institute strictly follows the governmental guidelines of student fees, scholarships and concessions prescribed for the students. The fee structure and schemes are revised by the university and government from time to time. Regular financial audit is also conducted for ensuring transparency in financial dealings in the institute.

**Academic transparency-**The institute adopts standardized rubrics for practical, class test evaluation and assignments. These rubrics ensure that students are examined objectively and fairly. Each subject teacher prepares the rubrics required for their subject activities and practical. Also the revised University examination patterns such as Choice based Semester credit grading system (CBSCGS), Choice based credit grading system (CBCGS) are implemented for all the courses. The institute ensures that evaluation scheme is regularly updated on the notice board. There is also provision for reevaluation of examination paper through Examination department; so that fair and impartial results are given to the students.

**Administrative function transparency-** Various arenas of administration such as student admissions, faculty appointments and overall institute functioning are as per governmental guidelines and AICTE rules. Transparency is also practiced in recruitment norms. The institute publishes advertisement in leading newspapers for recruitments for the vacant posts as per the requirement of the institute. After receiving applications, they are scrutinized by the scrutiny committee of the respective department and eligible candidates are called for interview formally through interview call letter. A panel comprising of University representatives, senior faculty members from the department, management representative is formed for the recruitment process. Recruitments are done as per the recommendations of the panel.

**Auxiliary function transparency-** The institute has various collective units such as Grievance Cell and Student Council which help in communicating the concerns of stakeholders, resolving them and addressing the latest concerns. Student council plays an important role in planning and execution of the activities with the help of departmental student associations of the institute. The student council is formed as per guidelines of the university. Every statutory committee of the institute has process described and Standard operation Process (SOP) operating for ensuring transparency.

<b>File Description</b>	<b>Document</b>
Any additional information	<a href="#">View Document</a>

## 7.2 Best Practices

### 7.2.1 Describe at least two institutional best practices (as per NAAC Format)

#### Response:

#### 1. Title of the Practice: Mission Green

#### 2. Objectives of the Practice

- To inculcate environmental values and consciousness amongst students, staff and society around through various innovative methods.
- To ensure the protection of environment through green energy initiatives and effective waste management measures.

#### 3. The Context

The environment has gone drastic change due to factors like pollution, over usage of plastic and mismanagement of natural resources. In order to control the devastating environmental changes; there is need of regulating conscious efforts through educational organizations. The cause of public awareness regarding environmental issues is served through the numerous green initiatives and practices taken in the institute.

The challenge lies in changing the attitude of the use-and-throw culture; by inculcating the tradition of recycling. On various grounds such as recycling of paper, e-waste and other resources should be promoted. Conservation of energy is another important task to save environment.

#### 4. The Practice

The institute takes numerous Green practices for developing the environmental awareness and for carrying ahead eco-friendly programmes. The practice of planting a sapling by the hands of guests is followed enthusiastically in the institute. Some of the highlights of Green Practices programme are as follow:

**Cotton and paper bag distribution activity** – There is an emphasis on developing awareness on harmful effects of plastics. The institute has started practice to distribute cotton and paper bags for eco friendly awareness. 3000 bags were distributed among students and local community.

**Less paper office**- The institute promotes minimum use of paper. It is through an electronic mode, in form of email, and more use of soft copies is preferred. Paper is used only wherever necessary; in form of double-side printout. The institute is in the process to make its campus paperless, so information and notices are transferred by emails to students and staff. We are using following softwares in examination cell, library, academics to promote less paper.

**Green landscaping**-As a part of Green Practices, the institute has developed 2 lawns spreading over area of 1161 sq.mts. There are 178 big + 63 small numbers of trees species planted along the boundary of the entire campus. It has plantation of various flowers, fruits and vegetables in the institute campus; in order to improve air quality of institute campus and its surrounding. Tree plantation event has helped in fostering environmental sensitivity in institute campus both among teaching staff and students. This helped to connect with environment and ecology around.



**Public Transport** -The staff and students use eco-friendly means of transportation. 90-95% people are using public means of transport and prefer walking as an option from Thane station to the institute campus. Most of the students and staff are using local train and share autos for transport.

**Solid Waste Management** – By inauguration of Composting Pit in the institute premises on 28 December 2017. The institute has initiated the practice of “Waste Management” with the tag line “EXCEL THE GREENER WAY”. As per the venture organic manure produced by compost pit is utilized in garden area and also distributed to neighborhood societies.

**Green Energy Initiatives** - The institute has taken initiative and installed alternative in form of 80 kW Grid connected Solar Power Plant on rooftop in order to take the benefits of solar energy and become eco-friendly.

**Tree Plantation Drives** - The institute is following regular practice of tree plantation in campus neighborhood area and adopted village.

## 5. Evidence of Success

- The institute has enrolled on green army initiative of Maharashtra government. <http://greenarmy.mahaforest.gov.in/index.php?option=orgreport&lang=Mar>.
- Plastic collection drive was organized on 11 June to 15 June 2018.
- E-waste Collection drive - There was collection of 400 kg of e-waste from different departments of the institute on the occasion of World Environment Day.
- Celebrations at Pimpri with a plantation drive on the World Environment Day, 5 June 2018 – plantation of 100 saplings of different kinds of flora in the village.
- Organization of a seminar on “Domestic Waste Management and Terrace Gardening of vegetables” on 16 March 2018 by Eco club.
- Installation of Solar Panel System on 9 March 2018.
- Organization of Cleanliness and Plantation drive at Pimpri village on 8 March 2018.
- Waste paper collection drive was conducted on 01 March 2018.
- Inauguration of Composting Pit in the institute premises on 28 December 2017. The institute has initiated the practice of “Waste Management” with the tag line “EXCEL THE GREENER WAY”.
- Green and Clean KC activity on 18 November 2017.
- Campaign on Global Warming on 22 February 2017.
- Swachh Bharat Abhiyan on 10 November 2016.
- Initiative to give smart look to garden of KCCEMSR – Beauty in Creativity on 18 October 2014.

## 6. Problems Encountered and Resources Required

The institute had interest in developing Rain water harvesting project. However, due to locational reasons like proximity of the institute with the creek area and high water table; it is not feasible to execute rain water harvesting. There is a challenge of catchment management due to nearby creek area. This obstructs the practice of rainwater harvesting in the institute premise.

**Title of the practice:** E-Cell and Ideation Innovation Automation and Research Lab (IIARL).

## **2. Objectives of the practice:**

- To impart relevant skills to the students with a motive to make them self-employable, thereby making them confident enough to earn with their skills alone.
- To help the students to develop business ideas who are eager to become entrepreneurs but are not sure how to go about it.
- To help both budding and would-be entrepreneurs with refining ideas and providing practical guidance.
- To undertake research activities, training entrepreneurs, identifying opportunities and pursuing them.
- To establish global leadership in all fields and develop competent human resources for providing services to society.

## **3. Context that required the initiation of the practice:**

With the job openings for the engineering sectors plummeting, the admissions to the engineering streams are also affected adversely. A dire necessity to cater such an alarming situation was to find a solution i.e. by motivating students to become entrepreneurs and create an ecosystem that would create jobs for the future input of engineering students. With the onset of our PM's initiative of startup India, there are various schemes deployed by the government of India that can be used as an elixir for budding startups and businesses. E-Cell was started with a motive that every graduating engineer must be confident enough to be self-employed if not by industry, be able to generate enough revenue that he or she can sustain life on this planet.

## **4. The practice:**

KCCMSR took an initiative to set up an Entrepreneurship Cell (E-Cell) for its students with a view to motivate budding entrepreneurs to establish their own startups. For the same E-Cell conducts various activities like Ked Talks, Seminars, Workshops, etc. for enhancing the skills of the students. The E-Cell is aiming at starting a full incubation centre by the first half of 2019. The institute has set up a space for an incubation center under the name of I2ARL, which is being tried to engender under the Atal Innovation Mission, the incubation center will provide the startups with necessary guidance, tech-support,

infrastructure, access to investors, networking and facilitating a host of other resources that may be required for the startup to survive and scale. There are some startups lined up to be incubated under I2ARL.

Students have gained confidence and have started working for small firms/ companies and are getting paid, thereby have grown in confidence that they can do something on their own. The E-Cell has successfully nurtured some good entrepreneurs who are doing excellent work in their startups. Students have improved their skills by doing things practically and learning how to reverse engineer any system/ devices.

Initially few students joined in and were skeptical about what they would do in the future but with time they became clear about Entrepreneurship and started mentoring other students and hence lured more students and thereby the strength of students increased several folds within a span of 2 years.

The E-Cell team also won the second prize in the National Entrepreneurship Challenge held by IITB in 2018.

The E-Cell has received a funding of Rs. 20000/- from Entrepreneurship Development Institute of India (EDII) regarding conduction of activities / programs of Entrepreneurship Awareness Camp (EAC) under National Sciences & Technology Entrepreneurship Development Board (NSTEDB). Now we are applying for Faculty Development Program through Entrepreneurship Development Institute of India (EDII) under National Sciences & Technology Entrepreneurship Development Board (NSTEDB).

### 5. Evidence of Success:

Sr. No.	Work	Company/Funding Agency	Funded Amount
1	Repairing PCR machine, Microbiology Dept.	Lokmanya Tilak Municipal Medical College and General Hospital, Sion, Mumbai	-
2	Website Development	Associate Consultants, Thane	12000/-
3	Data logger for Remote Monitoring of Solar Power Generation (Website)	Seven Greens Solar Systems Pvt. Ltd., Bandra(E), Mumbai	40000/-
4	Website Development of Quickhomeo	PQRS Homoeopathy & Health Care Services LLP, Kandivili (E), Mumbai	50000/-
5	Development of Inquisitive Mag Adroid App	Inquisitive Mag	Software App
6	Interval Timer/ Alarm Systems	LYM Technologies	500/-
7	Microbiology App	Lokmanya Tilak Municipal Medical College and General Hospital, Sion, Mumbai(ongoing)	Software App
8	Smart Stall	Samwick/Effena solutions	25000/-

Sr. No.	Project	E-Cell	Funding Agency	Amount (in Rs)
1	IOT Based Smart Living	National Entrepreneurship Challenge (NEC), Aakar IIT Bombay	KCCEMSR	Software
3	Touch Switch	E-Cell	KCCEMSR	25800
4	Smoke Detector	E-Cell	KCCEMSR	20290
5	PIR Sensor	E-Cell	KCCEMSR	62300
6	Attendance Log System	E-Cell	KCCEMSR	Software
7	Farming Automation	E-Cell	KCCEMSR	Software
8	E -Cell Automation	E-Cell	KCCEMSR	Software
9	EM Door Lock	E-Cell	KCCEMSR	56110
10	Voice Control	E-Cell	KCCEMSR	Software
11	Mood Light	E-Cell	KCCEMSR	Software
12	Electromagnetic Rail gun	E-Cell (Ongoing)	KCCEMSR	700/-
13	3D Printer	E-Cell (Ongoing)	KCCEMSR	63900
14	Sample Tracking System	E-Cell (Ongoing)	KCCEMSR	Software
15	Sai Baba Charitable Trust Website	E-Cell (Ongoing)	KCCEMSR	Website
16	SWAD (Safe Water Delivery) App	E-Cell (Ongoing)	KCCEMSR	Software
**	Continuous Research Equipments	E-Cell Setup	KCCEMSR	81060

#### 6. Problems encountered if any and strategies adopted to overcome them:

E-cell faced a lot of obstacles in the initial stages and a few strategies were adopted in the coming years to improve them. Funding has always been the major obstacle, with others being appropriate equipment for carrying out the work and lack of time for innovation and research. At times the attitude of students

towards research or innovation also becomes a hindrance in the smooth flow of the E-cell work.

To cater to some of the obstacles like funding, the E-cell is trying to get funds from various Govt. funding agencies

For stream lining time and managing projects students are encouraged to use soft-wares like Trello, ZOHO mail, etc.

**Resources required:** Funds, Lab Area, Internet, Wi-Fi router, LAN, PCs, Electronic Test & Measurement Equipment and components.

File Description	Document
Any additional information	<a href="#">View Document</a>

### 7.3 Institutional Distinctiveness

#### 7.3.1 Describe/Explain the performance of the institution in one area distinctive to its vision, priority and thrust

**Response:**

#### **Project E-Gaon “Retaining the sanctity of the village whilst instilling technology”**

**INTRODUCTION:** Sansad Adarsh Gram Yojana (Hindi: ससाद आदरश ग्राम योजना,abbr.: SAGY) is a rural development program broadly focusing upon the development in the villages which includes social development, cultural development and spread motivation among the people on social mobilization of the village community. The program was launched by the Prime Minister of India, Narendra Modi on the birth anniversary of Jayaprakash Narayan, on 11 October 2014. The distinct feature of this Yojana is that it is (a) demand driven (b) inspired by society (c) based on people's participation

**PURPOSE:** Far beyond mere infrastructure development, SAGY aims at instilling certain values in the villages and their people so that they get transformed into models for others. These values include:

- Adopting people’s participation as an end in itself—ensuring the involvement of all sections of society in all aspects related to the life of village, especially in decision-making related to governance
- Adhering to Antyodaya—enabling the “poorest and the weakest person” in the village to achieve well-being
- Affirming gender equality and ensuring respect for women
- Guaranteeing social justice
- Instilling dignity of labor and the spirit of community service and voluntarism
- Promoting a culture of cleanliness
- Living in consonance with nature—ensuring a balance between development and ecology
- Preserving and promoting local cultural
- Adhering to the values enshrined in the Fundamental Rights and Fundamental Duties of the Indian

## Constitution

**OBJECTIVES:** The main objectives of SAGY are:

1. To trigger processes which lead to holistic development of the identified Gram Panchayats
2. To substantially improve the standard of living and quality of life of all sections of the population through

- Improved basic amenities
- Higher productivity
- Enhanced human development
- Better livelihood opportunities
- Reduced disparities
- Access to rights and entitlements
- Wider social mobilization
- Enriched social capital

3. To generate models of local level development and effective local governance which can motivate and inspire neighboring Gram Panchayats to learn and adapt

4. To nurture the identified Adarsh Grams as schools of local development to train other Gram Panchayats.

**DESCRIPTION:** Under the program launched by AICTE IECSME SAGY for creating Entrepreneurship and Employment opportunities in association with AICTE, ministry HRD. We got an opportunity to help the cause by imparting sustainable development techniques in village of Pimpri, district Thane, Maharashtra, adopted by our honorable Member of Parliament Mr. Rajan Vichare. He has done a lot of work for the upbringing of the village and his efforts have paved way for us to work further in the direction of his vision. His commitment and selfless service towards the village has won their Zilla Parishad an award for being an “Open defecation free village”.

**The Sansad Adarsh Gram Yojana (SAGY) with a motto “Developed Village-Developed Nation”,** has inspired us in taking up a benevolent task and challenging the skills of our students which can be put to use for a noble cause.

<b>Pimpri - Village Overview</b>	
<b>Gram Panchayat:</b>	<b>Pimpri</b>
<b>Block /Tehsil:</b>	<b>Thane</b>
<b>District:</b>	<b>Thane</b>
<b>State:</b>	<b>Maharashtra</b>
<b>Pincode:</b>	<b>411019</b>
<b>Area:</b>	<b>304.89 acres (Agriculture area:2acre)</b>
<b>Population:</b>	<b>3,841 (census 2011) /</b>

	<b>actual 10,000 our survey</b>
<b>Households:</b>	<b>838</b>
<b>Nearest Town:</b>	<b>Thane(20 km)</b>

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## **PROPOSED SOLUTIONS THROUGH THE PROGRAMME:**

### **Enhancing Skills for Employment readiness**

- Computer Hardware
- Communication Skills
- Soft Skills

### **Improving Self Employability**

- There are certain spaces of land that can be used to grow bamboo. These Bamboo trees if cultivated would give rise to a revenue generating industry where the villages can make bamboo baskets, chairs and other handicraft.
- Installation of Solar Panels and biogas centres, potable water plants, etc. would also fetch employment if these villagers are trained in operating and maintaining the above mentioned units.

### **Teaching-Learning Scheme**

- The students of our institute are enthusiastic about this project undertaken under the “SAGY”.
- We have come up with a “Teach the Village” scheme like the “Teach India” mission where our students will visit the village to teach the students of standard I to IIX on a weekly basis for the subjects like Social Studies, Mathematics and English.
- This process will enhance the skills of the students of our institute also, while they would be learning many aspects of the village during this teaching-learning process
- The good news that we had during the survey was that no students in the three schools dropped out this year.
- But on the whole there were about 1-1.5% dropouts from the schools in the past few years.

### **Industry Village Partnership Program (IVPP)**

- The Industry Village Partnership Program is an initiative by K. C. College of Engineering and Management studies & Research, Thane, Maharashtra, where we would try to connect the village to the Industries that are located nearby.
- The idea is to approach the industries in the close vicinity for their requirements, e.g. Electrical, plumbing, fixing etc. and using this data we could train the villagers so that they are employable in that industry.
- Students of E-Cell are developing a website “Your own cart” which will showcase home made products made by Ladies from the village, this will help them to get semi-global or global markets for their products and also building their confidence.

### **INITIATIVES TAKEN:**

#### **Improving Sanitation**

- “Swachata Abhiyaan” conducted by students of our institute in coordination with students of the schools in village to help improve sanitation.

#### **Donation Drives**

- All the staff members and interested students donated various study items required by the school children of the village. Various items such as notebooks, stationery articles like pens, pencil, sharpeners, crayons and other related items were donated to the Gram Panchayat authorities to forward it to the needy school children of the village.



### Health Camp

- A massive health and yoga camp was conducted for women of the village on 8th March 2018 on the occasion of International women's day,

### Tree Plantation Drives

On the occasion of World Environment Day and International Women's Day, tree plantation drives were conducted.

File Description	Document
Any additional information	<a href="#">View Document</a>

## 5. CONCLUSION

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### **Additional Information :**

Providing exposure to students is an integral part of the institute. The institute provides ample opportunities for overall development of students. The institute strives to get internships for students in third year. Industrial visits are organized regularly to get a fair idea of what is going on in the industry. In final year most students present papers in national or international conferences. Students are connected socially through NSS (National Service Scheme), Rotaract, YRC (Youth Red Cross). Also participation in student council, various cells and technical and cultural events gives student an opportunity to explore their co-curricular and extra-curricular capabilities. Thus apart from teaching and learning the institute provides opportunities for holistic development of students.

### **Concluding Remarks :**

Going ahead as per the vision of the institute, it is striving to achieve excellence in all domains like academic, co-curricular and extra-curricular activities and in social outreach program. The institute plans continuous improvement strategies in all domains and implemented meticulously. It has regular performance evaluation of various operations and takes regular action on feedbacks received from various stakeholders.