

SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

BHARAT COLLEGE OF ENGINEERING

**BHARAT COLLEGE OF ENGINEERING, BADLAPUR (W), OPP. GAJANAN
MAHARAJ TEMPLE, KANHOR ROAD, BADLAPUR (W)**

421503

www.bharatedu.co.in

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

(Draft)

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Bharat Engineering College (BCOE), is located at Kanhor, Balapur (West)-421503, Maharashtra. Bharat College of Engineering was established in the year 2010 by Innovative Engineers' and Teachers' Education Society (IETES). IETES is registered under the Societies Registration Act, 1860. BCOE conducts undergraduate courses (Bachelor of Engineering) as Mechanical Engineering; Electronics & Telecommunication Engineering; Computer Engineering are approved by AICTE, Directorate of Technical Education (DTE), Government of Maharashtra (GoM) and affiliated to Mumbai University, (MU), Mumbai. The college is situated in the rural area and provides educational opportunities to the students of this rural area. The college is maintaining significant social responsibility by providing higher education without gender, caste, regional bias among the students and staff. In keeping with the Vision and Mission of the institution BCOE has produced thousands of graduate holders are gainfully employed and few even become entrepreneurs.

Vision

To become a premier institute in greater Mumbai, India and the world, which will impart quality education to every student, molding them to become perfect instruments and catalysts of progressive change for the organization and the society they go into.

Mission

BCOE is committed to become one of the most effective educational institute which creates positive change agents for society. It plans to achieve this by keeping following objectives: •To Impart state of the art technical education, meeting the current needs of emerging India and world at large. •To become an effective and excellent institute of engineering management studies that will meet the needs of rapidly changing economic environment while inculcating qualities of leadership in its students. •To become a centre of meaningful and relevant research. •To cultivate an environment promoting values and character development in students. •To create a culture of Innovation and out of the box thinking. •To impart practical education with the help of industry partnership

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

1) Institution has a holistic view of educational system as they are associated with different educational institutions. 2) Excellent Research and Development activity and good number of papers published by faculty and students. 3) One of the most sought after campus in the region by the many companies for campus placements. 4) Well established laboratories with adequate hardware and software. 5) Wi-Fi enabled campus. 6) Strong Alumni-Institute relationship. 7) Promotion of e-learning, life skills, employability skills, entrepreneur skills across the campus. 8) Good governance – proactive, dynamic & transparent leadership. 9) Professional & learning campus- High employee morale, positive interaction among peer faculty members & administrate

staff, overall feeling of safety & wellbeing on campus. 10) Practice of modern learning system (blackboard). 11) Adopting of new technology for effective learning process.

Institutional Weakness

1) Less out of state students 2) Financial resources fees dependent 3) Do not have liberty to make changes in curriculum as being an affiliated college. 4) Funded research by Government and other leading Research and Development agencies is less than expectations. 5) Industry Institute Interaction for internships, live projects, consultancy and joint research is less.

Institutional Opportunity

1) Enhancement/ encouraging for Entrepreneurship among Students. 2) Engineering Consultancy to Local Industries. 3) Keeping pace with latest developments and developing students into a global workforce. 4) Improvement of Faculty and student exchange programmes with National and International Institutes.

Institutional Challenge

1) Retaining qualified and passionate faculty who can contribute for the overall development of students and thereby the region. 2) Meeting the ever changing requirements of industry and society as a whole. 3) Improving communication skills of students hailing from rural background who otherwise are good in technical competencies. 4) High cost of delivering program 5) Regular investment to keep pace with immerging technologies. 6) Generate new streams of revenue, understanding the limitation of tuition fees as directed by Shikshan Shulk Committee. 7) Competing with other technical institutions under Mumbai university 8) Employment opportunity of a qualified college education becoming less important with industries high paying blue collared careers.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

Bharat College of Engineering is affiliated to University of Mumbai. We plan & implement curriculum prescribed by the affiliating university. Based on the guidelines of university academic calendar is prepared by Dean Academics in consultation with Principal. Timetable & Teaching plans are prepared by faculties. Academic coordinator/HOD monitors the progress of curriculum implementation. Corrective actions are taken in HOD meetings. To bridge the gap between academic curriculum & industry expectations various skill development programs are organized by the Student's & professional bodies. Institute has established Center for Innovation, Incubation & Entrepreneurship (CIIE) to encourage entrepreneurial skills and Ideas across all disciplines. The effective implementation of curriculum is ensured by supplementing classroom teaching with expert lectures, seminars, mini projects, in-house and industry supported projects wherever required. Feedback is taken from the students. Based on the feedback principal, HOD's gives necessary directions for improvement.

Teaching-learning and Evaluation

College follows admission process as per the guidelines by Directorate of Technical Education, through the Centralized Admission Process. Most of the student population admitted in the college is from the rural background. In BCOE by assessing learning level of students a faculty mentor is assigned to a group of students to address personal and academic problems. College aware the students about the Government scheme and avail all the financial scholarship from Government of Maharashtra. The institute has a well-defined standard operating procedure to develop the academic teaching plans and followed through a well-defined academic calendar. We continuously assess the progress of the student through discussions, performance in class tests and class room seminars. In college we encourage students to be members of professional bodies like MESA, IEEE and CSI. Special soft skills training programs and Quantitative skill training sessions were organized by college which is beneficial for placement opportunities. Advanced learning Technique is successfully implemented by ICT compatible Infrastructure provides e-class rooms, web connected labs and digital library. Institute periodically conducts orientation programs, workshops, expert guest lecture, conference and STTP for the continuous improvement of the faculty as well as students. Internal assessment is considered to be the most important aspect; the College undertakes transparent and robust mechanism. Examination Regulatory Committee is appointed as per the rules of Mumbai University. College has well established and defined processes pertaining to evaluation - grievances redressal for theory as well as online examination. The process of evolution is transparent, time-bound and efficient.

Research, Innovations and Extension

The BCOE has taken initiative steps towards developing ecosystem for innovations and various knowledge transfer methods. The faculty are duly recognized and encouraged to participate in various workshops and conferences, to remain abreast with latest knowledge and technology updates. The institute encourages the students and staff, work towards developing their own ideas and share among them and with experts. BCOE has made MOUs for the purpose to encourage, educate the students and staff by means of project works in the curriculum and off the curriculum. The institute conducts workshops and seminars on intellectual properties and industry-academia innovative practices. Number of papers has been published in various Journals, International and National Conferences by the faculty of the College. The students are participating in community development programs. The college through its extension activities promotes and imbibes students with social justice and responsibility. Many students and coordinators are recognized by various agencies for the extension activities.

Infrastructure and Learning Resources

The institution has good state of art infrastructure to meet the educational requirements of students. The buildings of the college are built with 30043 Sq.M with good ambience provide an ideal environment for learning. The college management has taken all the care in building a campus with all the amenities. Institute has adequate facility for teaching –learning. There are adequate number of class rooms for each department along with e-class rooms and seminar halls. A common seminar hall with all public address facility is established. A conference/board room with ICT facility is established to hold board meetings. The institute has centralized computer centre to cater the common works. The college library is repository of knowledge. The library has 51,447 books besides the digital library from which students and faculty can access e-journals & e-books. The computer centre of the college is fully equipped with 32 Mbps/LAN. The college has a good

transport facility with number of buses both for the students and staff from various corners of the city. The campus is under surveillance through CC Cameras installed at various locations.

Student Support and Progression

BCOE facilitates scholarships for students from Social Welfare Department (SWD) of the Government of Maharashtra. Students are supported to prepare themselves for competitive examinations and higher studies. Extracurricular and Co-curricular activities promoted by the institute act as a catalyst for overall personality development. Guardian Faculty Member scheme is active in academics and resolving students personal challenges. Opportunity exists for all students to excel in academics and Sports. Student an association of BCOE organizes Annual Sports, Technical and Cultural events within campus, and participates in intra/inter collegiate/university level competitions. Anti-Ragging, Women's Grievance Redressal Cell, Anti-Sexual Harassment and Student Disciplinary Committee support has been formed for all around safe campus. Training & Placement Cell has a robust campus placement and career guidance activities. This Cell conducts Campus training for students to prepare for interviews to face and continuously takes care of all other training activities to be provided. The institute maintains good relation with alumni students and conducts regular meetings to take the suggestions to improve the college overall systems in all respects. Alumni association of the college is active and organizes Alumni meets and interacts to guide present students. One-step ahead, as a fruitful contribution of our alumni association we formed **Center for Innovation, Incubation and Entrepreneurship (CIIE) cell** in the college. The incubation center at Bharat College of Engineering looks forward to the participation of students who have vibrant ideas and also the local entrepreneurs in and around the Mumbai.

Governance, Leadership and Management

The Governing body is the highest body that monitors the progress and suggests activities for the growth and overall development of the institution. It has been constituted as per the affiliating University, Mumbai. Its main objective is to offer transparent and effective governance in building and developing the institution. The Principal will have meetings with HOD's to discuss various Academic, co and extra Curricular activities. Various activities such as FDPs, Conferences, seminar, workshops, Tech. fests, Annual day celebrations, Sports meet etc, are held with the involvement of HODs, faculty and students. The management of BCOE plays an important role in providing excellent infrastructure facilities and healthy teaching - learning environment. The management along with Head's of Departments provides academic leadership and tries to percolate the qualities of leadership amongst the faculty, staff and students. Head's of Departments in consultation with the principal decide the strategies of individual departments. They also take a review of academics, research, placement and execution of various activities of all the departments.

The parameters of performance appraisal system of faculty and support staff are in place to evaluate and ensure the effectiveness of the individual. Various sources of feedback from the stakeholders are used to ensure reinforcement of the culture of excellence. The financial plan of the institute reflecting in the annual budget is based on the requirements of recurring and nonrecurring expenditures. The institute has mechanisms for an annual audit to ensure the budget utilization and proper documentation with respect to the books of account.

Institutional Values and Best Practices

The institute has taken initiation for promotion of gender equity and conducts programs on this issue. In the

curriculum it has subjects like gender sensitization to address these issues. Common rooms are also provided. The College has displayed anti-ragging posters at all vulnerable places with complaint boxes. The students are encouraged to participate in coding competitions. Counseling aims to identify personal issues like low self-esteem, interpersonal relationship problems, cultural differences, alcohol & drug habits if any, depression or suicidal tendencies. It also addresses classroom issues like study skills, time management, examination anxiety and communication with teachers. The physically disabled are taken care by ensuring facility needed for their movement in the campus. The institute develops national integrity among students and staff by conducting various national important festivals and events. The Institution adopts the best practices like conducting the workshops to enhance the teaching skills of faculty colleagues in core Engineering. Life skills program implemented to enable the students to learn and practice Life Skills, Leadership skills and Employability Skills. This helps the students to be more competent in dealing with the day to day challenges and led a positive life in order to achieve their desired Career & Personal goals.

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2. PROFILE

2.1 BASIC INFORMATION

| Name and Address of the College | |
|---------------------------------|---|
| Name | Bharat College of Engineering |
| Address | BHARAT COLLEGE OF ENGINEERING, BADLAPUR (W), OPP. GAJANAN MAHARAJ TEMPLE, KANHOR ROAD, BADLAPUR (W) |
| City | Badlapur |
| State | Maharashtra |
| Pin | 421503 |
| Website | www.bharatedu.co.in |

| Contacts for Communication | | | | | |
|----------------------------|--------------------------------|----------------------------|------------|-----|------------------------------|
| Designation | Name | Telephone with STD Code | Mobile | Fax | Email |
| Principal | SUBHASH N. BARAI | 0251-2665001 | 7722013100 | - | info@bharatedu.co .in |
| Associate Professor | ATUL DATT ATRAY NARKHEDE | - | 7722013117 | - | atulnarkhede22@g mail.com |

| Status of the Institution | |
|---------------------------|---------|
| Institution Status | Private |

| Type of Institution | |
|---------------------|--------------|
| By Gender | Co-education |
| By Shift | Regular |

| Recognized Minority institution | |
|--|----|
| If it is a recognized minority institution | No |

| Establishment Details | |
|-----------------------|--|
|-----------------------|--|

| | | | | |
|--|--|---------------------------------------|-------------------------------|----------------|
| Date of establishment of the college | 27-08-2010 | | | |
| University to which the college is affiliated/ or which governs the college (if it is a constituent college) | | | | |
| State | University name | | Document | |
| Maharashtra | University of Mumbai | | View Document | |
| Details of UGC recognition | | | | |
| Under Section | | | Date | |
| 2f of UGC | | | | |
| 12B of UGC | | | | |
| Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC) | | | | |
| Statutory Regulatory Authority | Recognition/Approval details Institution/Department programme | Day,Month and year(dd-mm-yyyy) | Validity in months | Remarks |
| No contents | | | | |

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

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

| Location and Area of Campus | | | | |
|------------------------------------|---|------------------|-----------------------------|---------------------------------|
| Campus Type | Address | Location* | Campus Area in Acres | Built up Area in sq.mts. |
| Main campus area | BHARAT COLLEGE OF ENGINEERING, BADLAPUR (W), OPP. GAJANAN MAHARAJ TEMPLE, KANHOR ROAD, BADLAPUR (W) | Rural | 16.5 | 9517 |

2.2 ACADEMIC INFORMATION

| Details of Programmes Offered by the College (Give Data for Current Academic year) | | | | | | |
|---|--|---------------------------|----------------------------|------------------------------|----------------------------|--------------------------------|
| Programme Level | Name of Programme/ Course | Duration in Months | Entry Qualification | Medium of Instruction | Sanctioned Strength | No.of Students Admitted |
| UG | BE,Civil Engineering | 48 | H.S.C OR DIPLOMA | English | 60 | 9 |
| UG | BE,Computer Engineering | 48 | H.S.C OR DIPLOMA | English | 60 | 29 |
| UG | BE,Electronics And Telecommunication Engineering | 48 | H.S.C OR DIPLOMA | English | 60 | 1 |
| UG | BE,Mechanical Engineering | 48 | H.S.C OR DIPLOMA | English | 120 | 33 |

Position Details of Faculty & Staff in the College

| Teaching Faculty | | | | | | | | | | | | |
|---|------------------|--------|--------|-------|----------------------------|--------|--------|-------|----------------------------|--------|--------|-------|
| | Professor | | | | Associate Professor | | | | Assistant Professor | | | |
| | Male | Female | Others | Total | Male | Female | Others | Total | Male | Female | Others | Total |
| Sanctioned by the UGC /University State Government | 5 | | | | 15 | | | | 48 | | | |
| Recruited | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 8 | 0 | 22 |
| Yet to Recruit | 5 | | | | 15 | | | | 26 | | | |
| Sanctioned by the Management/Society or Other Authorized Bodies | 0 | | | | 1 | | | | 45 | | | |
| Recruited | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 27 | 18 | 0 | 45 |
| Yet to Recruit | 0 | | | | 0 | | | | 0 | | | |

| Non-Teaching Staff | | | | |
|---|-------------|---------------|---------------|--------------|
| | Male | Female | Others | Total |
| Sanctioned by the UGC /University State Government | | | | 14 |
| Recruited | 0 | 0 | 0 | 0 |
| Yet to Recruit | | | | 14 |
| Sanctioned by the Management/Society or Other Authorized Bodies | | | | 25 |
| Recruited | 15 | 10 | 0 | 25 |
| Yet to Recruit | | | | 0 |

| Technical Staff | | | | |
|---|-------------|---------------|---------------|--------------|
| | Male | Female | Others | Total |
| Sanctioned by the UGC /University State Government | | | | 17 |
| Recruited | 0 | 0 | 0 | 0 |
| Yet to Recruit | | | | 17 |
| Sanctioned by the Management/Society or Other Authorized Bodies | | | | 9 |
| Recruited | 9 | 0 | 0 | 9 |
| Yet to Recruit | | | | 0 |

Qualification Details of the Teaching Staff

| Permanent Teachers | | | | | | | | | | |
|------------------------------|------------------|---------------|---------------|----------------------------|---------------|---------------|----------------------------|---------------|---------------|--------------|
| Highest Qualification | Professor | | | Associate Professor | | | Assistant Professor | | | Total |
| | Male | Female | Others | Male | Female | Others | Male | Female | Others | |
| D.sc/D.Litt. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph.D. | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| M.Phil. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PG | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 23 | 0 | 53 |

| Temporary Teachers | | | | | | | | | | |
|-----------------------|-----------|--------|--------|---------------------|--------|--------|---------------------|--------|--------|-------|
| Highest Qualification | Professor | | | Associate Professor | | | Assistant Professor | | | Total |
| | 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 |

| Part Time Teachers | | | | | | | | | | |
|-----------------------|-----------|--------|--------|---------------------|--------|--------|---------------------|--------|--------|-------|
| Highest Qualification | Professor | | | Associate Professor | | | Assistant Professor | | | Total |
| | 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 |

| Details of Visting/Guest Faculties | | | | | |
|--|------|--|--------|--|-------|
| Number of Visiting/Guest Faculty engaged with the college? | Male | | Female | | Total |
| | | | | | |
| | 11 | | 4 | | 15 |

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

| Programme | | From the State Where College is Located | From Other States of India | NRI Students | Foreign Students | Total |
|-----------|--------|---|----------------------------|--------------|------------------|-------|
| | | UG | Male | 675 | 0 | 0 |
| | Female | 54 | 0 | 0 | 0 | 54 |
| | 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 | 9 | 29 | 34 | 23 |
| | Female | 0 | 4 | 3 | 1 |
| | Others | 0 | 0 | 0 | 0 |
| ST | Male | 2 | 2 | 0 | 0 |
| | Female | 0 | 0 | 0 | 0 |
| | Others | 0 | 0 | 0 | 0 |
| OBC | Male | 5 | 35 | 45 | 40 |
| | Female | 4 | 1 | 3 | 3 |
| | Others | 0 | 0 | 0 | 0 |
| General | Male | 37 | 129 | 122 | 113 |
| | Female | 3 | 8 | 7 | 12 |
| | Others | 0 | 0 | 0 | 0 |
| Others | Male | 12 | 5 | 16 | 11 |
| | Female | 0 | 0 | 2 | 3 |
| | Others | 0 | 0 | 0 | 0 |
| Total | | 72 | 213 | 232 | 206 |

3. Extended Profile

3.1 Programme

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

Response : 04

Number of self-financed Programmes offered by college

Response : 00

Number of new programmes introduced in the college during the last five years

Response : 01

3.2 Student

Number of students year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 878 | 1167 | 1257 | 1277 | 966 |

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 180 | 180 | 180 | 180 | 180 |

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 409 | 429 | 389 | 190 | 1 |

Total number of outgoing / final year students

Response : 1417

3.3 Academic

Number of teachers year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 96 | 96 | 96 | 92 | 68 |

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 96 | 96 | 96 | 92 | 68 |

Number of sanctioned posts year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 96 | 96 | 96 | 92 | 68 |

Total experience of full-time teachers**Response : 450****Number of full time teachers worked in the institution during the last 5 years****Response : 151****3.4 Institution****Total number of classrooms and seminar halls****Response : 24****Total Expenditure excluding salary year wise during the last five years (INR in Lakhs)**

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 400 | 586 | 432 | 395 | 305 |

Number of computers**Response : 370**

Unit cost of education including the salary component(INR in Lakhs)

Response : 0.50

Unit cost of education excluding the salary component(INR in Lakhs)

Response : 0.55

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4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

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

Response:

The institute follows a very systematic approach to develop and deploy action plans for effective curriculum implementation in the manner given below.

Plan for Curriculum Implementation:

1. Principal receives inputs through Governing Body (GB), IQAC, MRC and LMC meetings.
2. Based on these inputs Principal, Deans and Heads of departments discuss and prepare the academic schedule. These are documented by Dean Academics.

At the beginning of each academic year, the affiliating University of Mumbai gives guidelines about the dates of ,

- Commencement of the semester
- End of the semester
- Semester Examinations
- Oral, Practical Examinations
- Holidays

Accordingly, Dean Academics of the institute prepares its academic calendar in consultation with the Principal. It is then distributed to the departments.

3. Head of the department (HOD) distributes the load (Lecture /Practical /other responsibilities) by considering the subject choice form filled by the faculty members. In order to have smooth conduct of curriculum, HOD allocates the load according to faculty competency. The activity is carried out immediately after the end of the previous semester so that faculty members get sufficient time for the preparation of the subject assigned to them for the next semester.

4. Faculty Development Program is organized at the beginning of the semester and before commencement of actual teaching. This activity helps to develop teaching, training and content development skills among the faculty.

5. Time Table coordinator of each department then prepares Department Time table in consultation with

Head of the Department.

6. Considering the academic calendar, teaching plan of each course is prepared by Subject Incharge.

7. During the semester, lecture implementation regularly monitored by the academic coordinator and head. It is also checked by Dean Academics.

8. The evaluation of students is done through Theory Semester examinations , Internal assessment tests & Oral /Practical examinations. The details of these examinations are announced well in advance and the external examiners are appointed from list prepared by the affiliating University of Mumbai.

Process of Effective Curriculum Implementation:

1. Every faculty member prepares a teaching plan of entire semester in-line with the department's academic calendar. To prepare and maintain documentation, Course file is maintained.

2. University prescribes the syllabus which specifies the number of lectures, list of recommended books and assessment scheme of internal and external marks. Accordingly, faculty prepares the teaching plan of their allotted subject considering the number of lectures allotted for completion.

3. Detailed unit-wise implementation plan is filled by individual faculty. Academic coordinator/HOD monitors the progress of curriculum implementation at the end of every month.

4. The number of lectures planned and the number of lectures actually conducted facilitates identification of gaps, if any, and necessary corrective actions are taken for filling the gap.

5. The effective implementation of curriculum is ensured by supplementing classroom teaching with expert lectures, seminars, mini projects, in-house and industry supported projects wherever required.

6. Institute motivates faculty to adopt innovative teaching practices like Video lectures, NPTEL for respective courses etc.

7. Additionally, assignments, internal-tests and end-course surveys are conducted to judge the understanding of the students.

| File Description | Document |
|----------------------------|-------------------------------|
| Any additional information | View Document |

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

Response: 0

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

| | | | | |
|---------|---------|---------|---------|---------|
| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
| 0 | 0 | 0 | 0 | 0 |

| | |
|---|-------------------------------|
| File Description | Document |
| Details of the certificate/Diploma programs | View Document |

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: 0.63

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

| | | | | |
|---------|---------|---------|---------|---------|
| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
| 1 | 2 | 0 | 0 | 0 |

| | |
|--|-------------------------------|
| File Description | Document |
| Details of participation of teachers in various bodies | View Document |

1.2 Academic Flexibility

1.2.1 Percentage of new courses introduced of the total number of courses across all programs offered during the last five years

Response: 25

1.2.1.1 How many new courses are introduced within the last five years

Response: 1

| | |
|---------------------------------------|-------------------------------|
| File Description | Document |
| Details of the new courses introduced | View Document |

1.2.2 Percentage of programs in which Choice Based Credit System (CBCS)/Elective course system has been implemented

Response: 25

1.2.2.1 Number of programs in which CBCS/ Elective course system implemented.

Response: 1

| File Description | Document |
|---|-------------------------------|
| Name of the programs in which CBCS is implemented | View Document |

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

Response: 0

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 0 | 0 | 0 | 0 | 0 |

| File Description | Document |
|---|-------------------------------|
| Details of the students enrolled in Subjects related to certificate/Diploma/Add-on programs | View Document |

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:

The institute has framed policies regarding the gender equality, human rights etc.

Gender:

Institute has 'Women Development Cell' which organizes programs on gender equality & women empowerment. To educate students following programs are organized.

| Sr. No. | Program |
|---------|---------------------------------|
| 1. | Zero tolerance for Sexual Abuse |
| 2. | Self Defense Program |

Environment & Sustainability:

Institute has created awareness about environment by executing following activities.

| Sr. No. | Activities |
|---------|---|
| 1. | Plantation by Students & Faculties |
| 2. | Solar Plant Installation for Clean Energy. |
| 3. | Safai Abhiyan organized by institute after 'Ganesh Visarjan' on 'Ulhas River', Badlapur |

1. Large numbers of saplings are planted by students & faculties in the campus to make the campus green and aesthetically pleasing. A separate courtyard garden is maintained near workshop building.

2. We are aware that solar energy is a sustainable energy & clean energy source that can be relied on for the long-term. Institute has taken initiative towards clean energy by installing Solar Plant in its campus so that all its future needs of electricity will be fulfilled by it. Students have given exposure of this activity.

3. To keep campus clean small Biogas plant as student project was developed.

4. We have taken initiative to keep our city clean by Safai Abhiyan organised by institute after 'Ganesh Visarjan' on 'Ulhas River', badlapur along with local municipal people on 15.09.2016. Students & college staff was involved in this activity.

5. Environment Studies is one of the subject in the curriculum of the first year program.

6. Faculty and students are made aware of various measures to reduce carbon footprint advocating the following: printing only when necessary, switching off electrical appliances when not in use, reducing use of plastic etc.

Car-pooling and public transport is used by some faculty and students Of BCOE.

Human Values & Professional Ethics :

Institute has organized following programs to upheld human values.

| Sr. No. | Program |
|---------|---|
| 1. | Utkarsh: Stand for underprivileged children of Satkarn |
| 2. | Faculty Development Program on Professional Ethics |

An initiative taken by BCOE for underprivileged children of Satkarma Ashram, Badlapur (W) (Date: 10.11.2016.) We have invited representatives of various colleges to get aware of 'Satkarma Ashram' a Children Welfare Organization & home for orphanage.

To build a professional institute we have taken a step forward by making faculties aware about professional practices by Organizing a One day Faculty Development Program on Professional Ethics (Date: 17.12.2016)

List of Core Courses :

| CLASS | Program | SEMESTER | SUBJECT / Course |
|------------------------|---------|----------|------------------------|
| First Year Engineering | ALL -UG | SEM-I | Environmental studies |
| Third Year Engineering | ALL -UG | SEM -V | Business Communication |

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

Response: 5

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

Response: 5

File Description

Document

Details of the value-added courses imparting transferable and life skills

[View Document](#)

1.3.3 Percentage of students undertaking field projects / internships

Response: 4.66

1.3.3.1 Number of students undertaking field projects or internships

Response: 34

File Description

Document

Institutional data in prescribed format

[View Document](#)

1.4 Feedback System

1.4.1 Structured feedback on curriculum obtained from 1) Students 2) Teachers 3) Employers 4) Alumni 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: E. None of the above

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

| File Description | Document |
|----------------------------|-------------------------------|
| Any additional information | View Document |

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: 0.03

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 0 | 2 | 0 | 0 | 0 |

File Description

Document

Institutional data in prescribed format

[View Document](#)

List of students (other states and countries)

[View Document](#)

2.1.2 Average Enrollment percentage (Average of last five years)

Response: 68.56

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 148 | 220 | 268 | 413 | 432 |

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 432 | 432 | 432 | 432 | 432 |

File Description

Document

Institutional data in prescribed format

[View Document](#)

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: 29.22

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 10 | 38 | 41 | 63 | 111 |

| File Description | Document |
|---|-------------------------------|
| Institutional data in prescribed format | View Document |

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:

The college have organize Awareness Program for the parents and students admitted in first year engineering before the commencement of the classes regarding facilities, faculty expertise, rules & regulations, industry placement activity of the college. The students and parents are encouraged to express their problems and elicit other information during program and provide a platform to access and act accordingly. The participation of the students in class room discussions, performance in class tests, class room seminars and feedbacks measure their learning abilities and identifies slow learners and advanced learners also results of the midterm tests and final examinations are reviewed and analyzed. The differential requirements of the weak student population are categorized as under their a) academic performance b) Individual weak in soft skills, behavioral traits c) Weak in Quantitative skills.

Remedies for group 'a' students: A faculty mentor is assigned to a group of students to address personal and academic problems. In view of mentoring the faculty members suggest /guide the students in curriculum. A faculty mentor records the status of the student for current year, which based on the monthly attendance. Mid Marks, failures, discipline, aptitudes. The mentor ascertains the difficulties faced empathetically and provides requisite guidance and assistance by way of arranging special tutorials, lab classes, video lectures and personal attention by concerned faculty. The mentor will be in touch with the student parents. Remedial classes are conducted in courses where failures are more in external exams. Special Guest lectures are arranged for the lateral entry students to help them cope with theory subjects including Mathematics.

For category 'b' and 'c' students: Due to diversity of students from different regions students faces problems like lack of communication and soft skills or Quantitative skills. Special soft skills training programs and Quantitative skill training sessions are organized by college.

Encouraging bright Students: Advanced learners are motivated to strive for higher goals. They are provided with additional inputs for better career planning and growth like: Offering special career guidance

from experts. . Students are encouraged to be members of professional bodies like MESA, IEEE, and CSI . College organize technical events like Technostorm. Advising to participate in group discussions, technical quizzes to develop analytical and problem-solving abilities in them and thereby, to improve their presentation skills. Motivating them to do micro projects to inculcate research orientation and practical awareness in the 2nd year. Providing opportunities to develop their creativity by participating and organizing intercollegiate as well as national level technical symposiums. Reward prize are given by the college for all the toppers of each year exams on the event of convocation ceremony.

2.2.2 Student - Full time teacher ratio

Response: 13.04

| File Description | Document |
|---|-------------------------------|
| Institutional data in prescribed format | View Document |

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 | View Document |

2.3 Teaching- Learning Process

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

Response:

The teaching learning process is student centric by default and sufficient space is provided for that in academic plan. BCOE adopts Mumbai University Semester pattern for the Engineering UG programs. The planning and organization process takes into consideration the various events, holidays and likely closure of the university on account of different festivals and national holidays. Academic Planning Exercise starts in BCOE with the preparation of an Academic calendar which is a guide to students, staff and faculty. It is prepared by each department taking into consideration of duration of conduct of classes and various events. The institution has adapted to Result oriented Education. ROE is recognized as a modern method for teaching-learning process. Interactive learning: The College provides e class rooms where students participate in group discussions, debates and seminars. Infrastructure for ICT enabled teaching and learning labs are well connected to web. The college organizes guest lectures and arranges industrial visits for students to develop their interactive, collaborative and independent learning. On necessary topics, Interactive lectures with Industry experts are initiated. The institute also encourages getting MOU with the industries for better training in core fields and bridging the gap between academics and the industry. Incubation cell is developed in campus which encouraged promoting cooperative learning concept, where

students express knowledge within the group and have healthy competition Mini projects and main projects which are part of curriculum are done by students by forming a group. The institute encourages departments to conduct hands on experience workshops like Android applications, Robotics, programming languages etc for students. Independent learning: The institute provides well stocked library which consists of bulk of books, journals, project reports and other teaching materials for the use of students and faculty. NDL – National Digital Library which can be accessed by all the students. The department provides well equipped and advanced labs for improving programming skills & logical thinking. Students are encouraged to do online courses for which NPTEL lab is developed for engineering.

Participative learning is used while introducing a topic, explaining basic concepts and providing the latest information on the topic. Renowned personalities are invited to deliver expert lectures on selected topics. However, emphasis is also laid on student participation in the teaching-learning process. Interaction facilitates, in-depth understanding of the subject enables teacher to obtain a positive response from the students the topics from syllabi are chosen and allotted among students for presenting seminars. The students themselves study the topics and take the help of teachers to prepare the seminar paper and also power point presentations. Various programs and activities are organized under MESA and CSI which develops students' knowledge of the subject, communication skill, leadership qualities and also other soft skills. Students learn better by doing and observing themselves as they are able to grasp the subjects effectively. The Incubation cell guides students for preparation of business plan and execution of the same. Internship Projects allotted to students to develop their understanding of the processes of scientific research within their particular discipline.

2.3.2 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc.

Response: 17.86

2.3.2.1 Number of teachers using ICT

Response: 10

| File Description | Document |
|---|-------------------------------|
| List of teachers (using ICT for teaching) | View Document |

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

Response: 11.06

2.3.3.1 Number of mentors

Response: 66

| File Description | Document |
|---|-------------------------------|
| Year wise list of number of students, full time teachers and students to mentor ratio | View Document |

2.3.4 Innovation and creativity in teaching-learning

Response:

Teaching –learning is a phenomenon where the teacher and the student are mutually learning. In our institution, we have been following this method. By this method, the teacher is refining his/ her subject knowledge and effective teaching skills. BCOE implement various programs for staff like professional ethics, conference, STTP programs. Which is benefited to the students to understand the subject and its application. Our teaching faculty's endeavor is to follow this method meticulously so that both the participants get benefit and value addition to their efforts. It is not a traditional knowledge transfer from the teacher to the student. Traditional teaching has been replaced with more innovative and creative ways of disseminating, sharing and facilitating knowledge development in students. Advanced ICT labs are developed in campus, NPTEL Learning labs are arranged for students as well as staff. An interest has been created in the student and the teacher has to encourage the student to come out with new and innovative ideas and to achieve this incubation cell is arranged in the campus. This method also motivates both the teacher and the learner. A teacher has to find out innovative ways and new methods, and our faculty has been using various methods by using teaching aid to encourage the student's involvement. The Annual cultural events the Annual sports event activities are designed to teach the students managerial skills, communication skill and team building. Students are actively involved in organizing the following events. This enhances their interpersonal skills. They also learn to deal with group hostilities, denials, failures and criticism with a positive attitude which makes student more innovative and creative.

In this endeavor, our faculty has been taking pains with interest to demonstrate live / practical/ day-to-day examples, sometimes taking some live examples from the students to discuss a topic, coupled with technology. Newer approaches to T&L such as Result oriented education (ROE), Student-Centered Learning (SCL), Problem-based learning (PBL), Case Study (CS), Industrial visits (IV) have also emerged in recent decade and research has proven that many have positive impact on learning and we have been implementing the above different methods in our endeavor. The objective is application oriented learning. Both the faculty and student are involved in model making, and discuss in depth. Assigning project work and taking follow up providing traditional and advanced teaching aids Industry sponsored projects for final year student's High end Internet connected infrastructure for encouraging students to attend free webinar and technical sessions. Providing seminar halls and tutorial rooms Providing computers with relative accessories and aggregates for web based learning Promoting students for self-learning through; Web-based learning, multi-media, Classroom presentations and Technical symposiums. Learning through PPT/ Animations to understand complex problems Generation of facilities and availability of materials for self-learning beyond syllabus Digital Library/ EBooks Advance learning through high end software's Technical value added programs Encouraging faculties to participate in QIP/ STTP/ BOS syllabus implementation workshop etc Encouraging graduates to participate in various technical events. Advanced topic guest lectures are arranged from subject matter experts. Subject wise result benchmark are set.

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

| File Description | Document |
|---|-------------------------------|
| Year wise full time teachers and sanctioned posts for 5 years | View Document |

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

Response: 1.55

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 2 | 2 | 1 | 1 | 1 |

| File Description | Document |
|--|-------------------------------|
| List of number of full time teachers with PhD and number of full time teachers for 5 years | View Document |

2.4.3 Teaching experience of full time teachers in number of years

Response: 8.04

| File Description | Document |
|---|-------------------------------|
| List of Teachers including their PAN, designation,dept and experience details | View Document |

2.4.4 Average 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: 0

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 0 | 0 | 0 | 0 | 0 |

| File Description | Document |
|---|-------------------------------|
| Institutional data in prescribed format | View Document |

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

Response: 2.69

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 3 | 3 | 2 | 2 | 2 |

| File Description | Document |
|---|-------------------------------|
| List of full time teachers from other state and state from which qualifying degree was obtained | View Document |

2.5 Evaluation Process and Reforms

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

Response:

The evaluation process helps to ensure an improvement in the student academics. The academic plans and academic calendar inclusive of various activities of the institute is displayed on notice board and website before the start of the semester. The stakeholders of the institute are made aware about the evaluation process by following means: Course Structure and syllabus of respective program is displayed on University website and on departmental lab notice board. At the commencement of the semester, students are notified about the criteria for evaluation of term work.

As an affiliated institution of Mumbai University, evaluation norms of the university are followed. The Credit and Grading system implemented from the academic year 2012-2013 for Faculty of Technology of University of Mumbai and the institute has adopted the same. The college has adopted a method of assessing the academic performance of the students on a continuous basis. Various modes of assessment used for rating learners' performance in a theory course include Internal Assessment and End Semester Examination. Relative weightage for Internal Assessment is typically 20 percent. This will consist of two term test out of which one is compulsory class test and another is either a class test or assignment on live problems or course project in a group/individually. The end semester examination will be held as per the university schedule and the relative weightage for this would be 80 percent. It is normally of 3 hours duration and will cover the full syllabus of the course. The end semester examination is mandatory. The grade for theory courses can be awarded only after successful completion of both Internal Assessment and End Semester Examination of the respective course as per the curriculum manual of

therespective programme. The assessment in a laboratory course will be based on regular supervision of the learner's work, her/his performance in viva-voce examinations, the quality of their work as prescribed through laboratory journals and an end semester test that contains performing an experiment if practical examination is mentioned. It is obligatory to maintain a laboratory journal as prescribed by the course instructor. Final submission/examination for laboratory courses will normally be held before the end semester examination (final theoryexaminations). The grade forlaboratorycourses can be awarded only aftersuccessfully completion of Term Work, Practical and/or Oral examination as per the curriculum manual of the respective programme.Final year Project-I and Project-II are separately graded, at the end of the respective semesters. These projects are supervised or guided, and need regular interaction (at least once a week) with the supervisor/guide. Project group has to submit a project report and defend it in front of a external examiner.To ensure the sincere implementation CIE system The College has formed the Internal Vigilance Committee for internal examinations and frequent visits of the committee are arranged during examination to check the transparency in the functioning. Pre examination meetings of junior supervisors are conducted. Examination committee of the College is responsible to ensure effective implementation of the evaluation reforms. Evaluation are proceeds under video surveillance. BCOE has implemented CAP center for first and final year courses for year 2017-18. Assistanceteam is appointed by the College to monitor the smooth conduct of Central Assessment Programme.

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

Response:

Internal assessment is considered to be the most important aspect, the College undertakes following for transparent and robust mechanism: College Examination Officer is appointed as per the rules of Mumbai University. The Principal form the Examination committee to assist CEO. CEO and examination committee monitors internal assessment related activities throughout the year. The records of internal assessment are kept in the examination department and respective academic departments. Important circulars and notices regarding the evaluation process are displayed on the College notice boards.

At the beginning of the semester, faculty members inform the students about the various components in the assessment process during the semester. The internal assessment test schedules are prepared as per the university and communicated to the students well in advance. The examination branch conducts all the internal assessment tests as per the schedule. The examination branch circulates the invigilation duty chart for the faculty members and hall allotment for the students well in advance. The pattern, quality and correctness of the question papers prepared by the faculty members for the internal assessment tests are verified by the Head of the Department. To ensure proper conduct of formative tests, two invigilators are assigned to each hall. Evaluation is done by the course handling faculty members within one week from the date of examination. The answer scripts (sample answer sheets) are verified by Head of the Department to ensure the standard evaluation process. The answer papers of the students are distributed to them and the satisfaction of the students regarding evaluation is ensured. The marks obtained by the students in internal assessment tests are displayed on the department notice board the marks obtained by the students in internal assessment tests are uploaded periodically on the university web portal along with their attendance. Noting the values in observation and validating the theoretical aspects with practical knowledge, student must submit lab record regularly. Day to day performance of the students is assessed for every experiment which includes regularity, performance, viva and the promptness in submitting the record. For lab courses,

the marks/grade scored by the student for each experiment is indicated in the observation / record. The independent learning, practical approach to the real-time applications are tested by viva voce for laboratory courses. For the quality of the projects, the evaluation is done by Project Review Committee(PRC) along with the project guides. The university examinations are conducted at a center other than this college. The end examination for the laboratory and projects shall be conducted with external examiner and internal examiner. The external examiner shall be appointed from colleges as decided by the University Examination Branch.

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

Response:

College has well established and defined processes pertaining to evaluation - grievances redressal. These processes based on the type of grievance are – Term works marks evaluation - Such grievances are referred head of the department. Concerned subject teaching faculty resolves the grievance based on documentation. Class test, and Prelim examinations evaluations - The complaints of such examination evaluations are resolved by respective subject teacher and head of the program. University also has set process of grievances redressal. This includes,

- 1.Theory examinations - The queries and compliant about this evaluation are recorded by examination section of the college and submitted to University for corrective action within 15 days of declaration of results by paying the prescribed fee to the University. These corrective actions are normally re-evaluation, re-checking, providing photocopy of answer sheet to the student etc. At University level, students can apply for verification, revaluation and for photocopy of answer book. The University examiners re-verify, re-assess the answer books and the revised marks if any, The student is entitled to apply for recounting/revaluation in theory are sent to the institute which are communicated to the respective department and to the student by students section within stipulated time period. Further institute has taken following measures for the effective implementation of the evaluation reforms introduced by the University.

Online examinations: The effective implementation of the online examination is ensured by way of display of online examination timetable, appointment of eligible internal supervisors and use of CCTV cameras for monitoring of online examinations In-semester examination. Junior supervisors are appointed for invigilation masking of papers and Central Assessment of answer Papers (CAP) is conducted at college level for fair assessment of papers. For smooth conduction of University theory examination, Senior Supervisor is appointed who looks after overall conduction of the examination. Junior supervisors are appointed for invigilation. During examination higher authorities surprise visit are taken Appointment of Internal squads by institute CEO Term Work/Practical/Oral examination Final year term work is jointly evaluated by internal and external examiners. The marks of term work, practical/oral examination are submitted online to the University by using a unique username and password generated by a system Director and CEO conducts a meeting with all heads of the department before every semester examination regarding the smooth conduct/implementation of examination rules, where every HOD gives their suggestion on various aspects of examination and evaluation based upon the previous examinations. This enables further improvement in the subsequent examination and evaluation. Conducting a general meeting of all faculty members by the Director/CEO before end semester examination regarding the smooth

conduct/implementation of examination rules, where faculty members are encouraged to give their suggestion on various aspects of examination. Then unanimous suggestions are implemented for the subsequent examinations & the evaluations in conjunction with university norms. The College has also a separate unfair means and malpractices committee. The committee always has a reformative approach towards the students

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

Response:

The institute has a well-defined standard operating procedure to develop the academic teaching plans and followed through a well-defined academic calendar. Dean academics prepared and publish Academic calendar on institute website at the beginning of the each semester. The activity calendar shows the start and end of each semester stating various activities to be conducted, the internal evaluation schedule and the tentative schedule of external evaluation. Once received the academic calendar from dean of academics the respective head of the departments prepares the academic calendar which includes all the technical events, expert talks', co - curricular and extra co-curricular activities then final approved academic calendar is circulated to all the faculty and students.

There is always a maximum effort to strictly adhere the time schedule. Respective Teacher prepared subject course file. Every activity is scheduled in teaching plan of course file. Faculty has his own pattern of Internal Examination like Practical, Group discussions, Seminar, Presentations, and Projects etc. So as per their teaching plans, each Teacher has liberty to schedule their own Internal Evaluation.

The end examination shall be scheduled and the external examiner shall be appointed from colleges as decided by the University examination branches as per academic calendar. Evaluation of mini projects and main projects is also under the purview of University. The midterm examination marks and Lab external marks are to be uploaded to university in the stipulated time mentioned in the academic calendar. College should upload the internal marks of mini project, technical seminar, comprehensive viva and main project in the stipulated time given by University. University puts together internal marks and university semester end exams and declares the results.

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 College has clearly stated all program outcomes, program specific outcomes and course outcomes for all programs. The faculty, industry and alumni are actively involved in preparing program outcomes, program specific outcomes and course outcomes of all programs in the college. PO's are displayed at the notice board At the time of counselling for admission process PO's are conveyed to the students At the beginning of every academic year. The course outcomes of all the programs are made known to the students and staff by the introductory lecture of respective subject / course. Orientation program for all the

new students is conducted every year at the beginning of the academic year to educate about all course outcomes. At the beginning of the academic year all the faculty members will prepare the course files and laboratory manuals. The course file contains Department vision, mission, course syllabus, individual time table, program objectives, program outcomes, various mapping matrices, unit plan, lesson plan, course plan, unit wise material, direct and indirect assessments, student grading sheet, surveys/feedbacks collected from students and CO-PO attainment sheet. Each faculty take responsibility as a mentor, counselor, facilitator, guide, assessor, evaluator, learner, and finally as a teacher in ROE system. The college collects the feedback from the students on course structure, infrastructure, faculty, information resources, evaluation, and on the overall ROE system, to establish quality and continuously improve the program.

Mechanism of communication-the induction program is arranged for the students and parent at the start of semester. Institute has developed ERP system for academic and administration monitoring purpose. The contact number and email ID of every student and parent is added. Unit test is conducted. after each test performance is communicated to student and parent . The performance also displayed on departmental notice board. The evaluation report is also given to teacher guardian (TG) faculty of the student. TG then discuss with student and if performance of student is not satisfactory then parent are called Also student is counsel properly. Parent are briefed about evaluation process. The evaluation of the students, learning during semester and till end of semester is carried out in following way Online / insemester examination followed by end semester examination. All examination conducted by university. Unit test, mock test, oral examination after each experimentation, quiz, and assignment are carried out by institute to evaluate performance of student internally. The performance of student in internal assessment is communicated and explained to student and parent. The attendance of student is compulsory. If attendance is poor then student is counseled properly and institute also formally informed parents. Performance of student in theory, practical, termwork, oral, assignment, unit test and participation in various activity is timely displayed on the notice board. It is also communicated to parent through academic calendar given at the beginning of semester. Also progress report is communicated on regular basis to parent through ERP, website, departmental notice board, and phone calls by teacher guardian (TG), sending letters, and Email.

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

Response:

Attainment of Course Outcomes: The course outcomes were prepared by the action verbs of blooms taxonomy. The assessment of course outcomes are as follows: Direct assessment: 1. Internal Mid Examinations and Assignments Two Mid Examinations are conducted for students as prescribed by the university norms. There shall be 2 midterm examinations (each for 25 marks), along with 2 assignments in a similar pattern as above [1st mid shall be from 2.5 units, 2nd shall be from remaining 2.5units], and the average marks of the two examinations secured (each evaluated for a total of 25 marks) in each subject shall be considered as final marks for the internals. Each question in the mid exam is mapped to the course outcomes. It is expected that a student should score at least 80% of Maximum marks of the course for the attainment. 2. End Semester Examination For theory subjects the distribution shall be 25 marks for Internal Evaluation and 75 marks for the End Examination. It is expected that a student should score at least 40% of Maximum marksof the course for the attainment of course outcomes. The marks scored by the students in Internal Examinations, Assignments and End Semester exams are used to assess the attainment level of the whole course and the course outcome attainment level. 3. Labs For Labs, there shall be a continuous

evaluation during the year for 25 internal marks and 50 end examination marks. Out of 25 marks for the Internal, day to day work in the Laboratory shall be evaluated for 15 marks and internal examination shall be evaluated for 10 marks conducted by the concerned laboratory Faculty. The end examination shall be conducted with external examiner and laboratory teacher. Direct CO Attainment: Course Outcome attainment level from internal assessment(A): mid exam class average(Mid1 for CO1, CO2, Mid2 for CO3, CO4) Course Outcome attainmentlevel from universityexams(B): class average of end semester exams(for CO1, CO2, CO3, CO4) CO Attainment: $0.25(A) + 0.75(B)$ Indirect assessment: Course end Survey: At the end of each semester a questionnaire is distributed to all the enrolled students and take feedback on effectiveness of the course. The questionnaire is prepared to know the efficiency and utility of the course outcomes. CO attainment: Final co attainment is calculated as $0.9*Direct\ assessment + 0.1*Indirect\ assessment$. Attainment of Program Outcomes and Program Specific Outcomes Assessment Process: Direct assessment:Mapping of COs to POs and PSOs.Since COs are mapped to POs and PSOs,the values of COs are reflected in the respective POs and PSOs. Description:Assessment process for COs is described above. Frequency:Every semester. Indirect assessment:Graduate exit survey Description:All students leaving the college on completion of program are given feedback forms to give their assessment of POs and PSOs Frequency:Every year from the graduating batch to give their assessment of POs and PSOs POs and PSOs attainment: Final POs and PSOs attainment is calculated as $0.9*Direct\ assessment + 0.1*Indirect\ assessment$

Response: Students attainment of CO, PO and PSO are assessed by customized evaluation pattern to suit the Course and its COs.: Evaluation includes:-- Seminar presentation, Short quizzes or objective questions Home assignments, tutorials Extension Work Open Book Test Research Project by an individual student or a group of students, Role playing Workshops The college provides opportunities to students to exhibit their understanding through the medium of expression i.e. oral or written. The outcome of the entire exercise is that the evaluation method does not become a hurdle while evaluating students' attainment of CO, PO and PSO of specific Course. Students can optimally express their knowledge and this enhances their confidence. The college follows the evaluation pattern prescribed by the Savitribai Phule Pune University. This type of evaluation includes, term end, semester, practical and annual examinations conducted at the end of course. These examinations and results also measure the attainment of CO, PO and PSO.

2.6.3 Average pass percentage of Students

Response: 73.46

2.6.3.1 Total number of final year students who passed the university examination

Response: 310

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

Response: 422

File Description

Document

Institutional data in prescribed format

[View Document](#)

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response:

| File Description | Document |
|---|-------------------------------|
| Database of all currently enrolled students | View Document |

NAAC

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

Response: 0

3.1.1.1 Total Grants for research projects sponsored by the government/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)

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 0 | 0 | 0 | 0 | 0 |

| File Description | Document |
|-----------------------------------|-------------------------------|
| List of project and grant details | View Document |

3.1.2 Average number of research projects per teacher funded by government and non government agencies during the last five years

Response: 0

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

| File Description | Document |
|---|-------------------------------|
| List of research projects and funding details | View Document |

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:

The Center For Innovation, Incubation And Entrepreneurship (CIIE) at Bharat College of Engineering looks forward to the participation of students who have vibrant ideas, its alumni and also the local entrepreneurs in and around the Badlapur, to be a part of this venture to get wide knowledge on financial, technical and marketing assistance provided by governmental and non- governmental agencies.

The main Objective of CIIE is to Encourage and Felicitate entrepreneurial skills and Ideas across all disciplines and establish collaborations with Industries and entrepreneurs to guide our students and use Incubation Center services so as to develop and customized products for commercialization. We support the ideas of the students, and help them to nourish those ideas into effective action plans. We help them during the process, and provide them with the required support at any point of time.

This will act as a platform for students to:

- Connect with mentors and opportunities through conducting workshops, seminars and interactive sessions.
- Connect with successful students- turned- entrepreneurs.
- Get information about Government and Non-Government initiatives about academics industry collaborations.
- Get opportunities to work on live projects with the help of industry.

SERVICES OFFERED BY CIIE

- Guidance from mentors
- Connect with successful students- turned- entrepreneurs
- Frequently interactions from industry experts
- Regular interactive sessions with entrepreneurs
- State-of-the-art infrastructure with work stations, discussion rooms, conference halls etc.
- Ready-to-use internet bandwidth
- 24 X 7 security system
- Access Control & Fire Alarm System
- Standby DG power system
- Fully air-conditioned incubation space
- Uninterrupted power supply system

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

Response: 0

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 0 | 0 | 0 | 0 | 0 |

| | |
|--|-------------------------------|
| File Description | Document |
| List of workshops/seminars during the last 5 years | View Document |

3.3 Research Publications and Awards

| | |
|---|-------------------------------|
| 3.3.1 The institution has a stated Code of Ethics to check malpractices and plagiarism in Research | |
| Response: No | |
| File Description | Document |
| Institutional data in prescribed format | View Document |

| | |
|---|-------------------------------|
| 3.3.2 The institution provides incentives to teachers who receive state, national and international recognition/awards | |
| Response: No | |
| File Description | Document |
| List of Awardees and Award details | View Document |

| | | | | |
|---|-------------------------------|---------|---------|---------|
| 3.3.3 Number of research papers per teacher in the Journals notified on UGC website during the last five years | | | | |
| Response: 0.07 | | | | |
| 3.3.3.1 Number of research papers in the Journals notified on UGC website during the last five years | | | | |
| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
| 10 | 6 | 11 | 5 | 1 |
| File Description | Document | | | |
| List of research papers by title, author, department, name and year of publication | View Document | | | |

| | |
|--|--|
| 3.3.4 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: 0.07 | |
| 3.3.4.1 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 | |

| | | | | |
|---------|---------|---------|---------|---------|
| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
| 12 | 5 | 7 | 5 | 2 |

| File Description | Document |
|---|-------------------------------|
| List books and chapters in edited volumes / books published | View Document |

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:

We are the ardent believers of the fact that a person's responsibilities are not limited to his/her own self or just to his family and friends but to his/her society also. And this is what we proved many times by going out with our students and serving the society the best way we can. **the impact of activities in sensitising students to social issues and holistic development are as given below.**

Swachata Abhiyan: - 16 Sept 2016

Swachata Abhiyan was held at last three years as mentioned in excel sheet no. 3.4.4. Swachata Abhiyan was a magnanimous event organized by the mechanical department of Bharat College of Engineering. This event made the news in ZEE24TAAS and MAHARASHTRA TIMES. This event was related to cleaning up of the Ganesh Idol Immersion on the Ulhas river banks during Ganesh Utsav.

Biogas - Implementation & Demonstration: 16 Sept 2016

The title says it all. Being engineers we believe in using technology for the betterment of the human kind. The additional advantage of this biogas plant is that we use complete waste from college canteen to run this plant and hence produce "Best from Waste". This Project was initiated by Prof. Anil Rane along with his team.

UTKARSH Event: – 10 Nov 2016

We here at Bharat College of Engineering, this event was organized to show the under-privileged and orphan kids that they are not alone and that they too are an important part of this society.

Walk-A-Thon 2K17

When it comes to health nothing is more important than it- and this was proved by this event – “WALK-A-THON-2K17”. This event promoting the importance of good health which is most of the time ignored in today’s life due to various reasons need no mention.

Industrial Visit:

Our vision is clear- GROWTH. As per our motto is GROWTH and hence to enhance the learning of the students we organized an Industrial Visit to **IGTR, CIPET and Starways Engineering Pvt. Ltd.,** Aurangabad for T.E. students.

National Conference:

We believe in Team Building and working together when it comes to institute level hence Mechanical department staff assisted in organizing the INCSC-2017 national conference during 17/03/2017 to 18/03/2017.

Parent-Teacher Meeting – 18 Feb 2017

To keep an eye on the progress of a student, we believe involvement of parents and guardians is must. Without their proper support, we alone cannot bring about the positive change in the students.

Students’ Association – Mechanical Engineering Students’ Association organized the following co-curricular and extra-curricular activities.

Techno-storm 2K17:

Under MESA, students had organized the technical event “Techno-storm” on 07/02/2017 to 08/02/2017.

Blood Donation Camp:

Blood donation camp held last two years dated on 20 Feb 2016 and 20 Feb 2017. Blood donation camp arranged in the event of Chhatrapati Shivaji Maharaj Jayanti for social cause. Donating away the most crucial thing a man can – BLOOD.

Tree Plantation: Mechanical Department had organized a tree plantation event in our college promoting the use of trees for survival of human race.

| File Description | Document |
|----------------------------|-------------------------------|
| Any additional information | View Document |

3.4.2 Number of awards and recognition received for extension activities from Government /recognised bodies during the last five years**Response:** 0

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 0 | 0 | 0 | 0 | 0 |

File Description**Document**

Number of awards for extension activities in last 5 years

[View Document](#)**3.4.3 Number of extension and outreach programs conducted in collaboration with industry, community and Non-Government Organisations through NSS/NCC/Red cross/YRC etc., during the last five years****Response:** 1

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 1 | 0 | 0 | 0 | 0 |

File Description**Document**

Number of extension and outreach programs conducted with industry,community etc for the last five years

[View Document](#)**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:** 0.05

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 2 | 0 | 0 | 0 | 0 |

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

3.5 Collaboration

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

Response: 1

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 1 | 0 | 0 | 0 | 0 |

| File Description | Document |
|---|-------------------------------|
| Number of Collaborative activities for research, faculty etc. | View Document |

3.5.2 Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. during the last five years (only functional MoUs with ongoing activities to be considered)

Response: 2

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 0 | 2 | 0 | 0 | 0 |

| File Description | Document |
|--|-------------------------------|
| Details of functional MoUs with institutions of national, international importance, other universities etc. during the last five years | View Document |

NAAC

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 institution has the following policy for creation and enhancement of infrastructure to facilitate effective teaching and learning. The institution has the policy of replacing or upgrading the existing equipment to meet the changes in the syllabus made by the university from time to time. The campus main building accommodates Principal, Board room, Administrative office, Examination cell, Seminar hall, Computer Centre and Central library. It also accommodates the Training and Placement cell. All the departments are fully equipped with the necessary infrastructure to meet the ever increasing requirements with adequate class rooms, seminar halls, tutorial halls, laboratories and sufficient space for hosting all academic activities. Second building accommodates departments of Mechanical engineering; the department is fully equipped with the necessary infrastructure to meet the ever increasing requirements with adequate class rooms, tutorial rooms, laboratories and sufficient space for hosting all academic activities. Class Rooms: The institution has sufficient number of well-furnished, well-ventilated, spacious class rooms for conducting theory classes. Class Rooms are spacious and properly designed so that proper ventilation, lighting is provided with good acoustics. Better Aspect ratio is maintained for proper visibility of glass board and audibility. All the class rooms of individual departments are at close proximity in order to have better access for the students. Each department is also being provided with tutorial classroom. ICT facilities: The institution has multimedia facilities by providing audio- visual equipment and also having Webinar center which facilitates the video conference for effective learning process. In addition to this the departments of the institution are equipped with latest projectors for effective teaching through video lectures. For better visualization of the subject topics, the faculty is encouraged to use the ICT facilities. The institute continuously keeps upgrading the internet bandwidth as latest teaching methods demand the usage of MOOCS/SPOKEN TUTORIAL/NPTEL/Webinars etc. The institute keeps upgrading the software packages and also purchases software's currently being used in the industry to make the students industry ready. The institute encourages students and faculty to effectively use the Virtual lab concept,

Technology enabled learning rooms: Each room has a seating capacity of 60 and all departments are provided with sufficient number of LCD projectors, Wi-Fi and LAN enabled internet connectivity, public addressing system etc. Laboratories: All laboratories are well equipped, and well maintained not only for carrying out curriculum- oriented practical's, but also to carry out experiments beyond curriculum.

| File Description | Document |
|----------------------------|-------------------------------|
| Any additional information | View Document |

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

Response:

Sports: Sport is an integral part of the curriculum. Various sports facilities are provided to the students within the campus. The college is committed to create a balanced atmosphere of academic, cultural and sports activities for the overall personality development of its students. Various sports competitions such as Inter departmental, Inter collegiate, etc help in developing team spirit in students. Their interpersonal relationship is enhanced in a very healthy manner. Students are provided with honors like medals, trophies and certificates. Outdoor Games: A play ground is available for outdoor games like Cricket, Volley ball, kabaddi, foot ball are available. Indoor Games: Facilities for the indoor games like Chess, Caroms etc, are provided to students in the college campus. Cultural Activities: The College also encourages the students to participate in various cultural and literary activities and make the students excel in their fields of interest. College conducts the various cultural activities like Annual day, Fresher's day, and a national level fest in which students explore their talents. The students participate in many cultural activities. These Activities helps to build communities by fostering an appreciation for the arts. In addition to cultural activities, A full-fledged state of the art Training and Placement cell actively works and arranges on-campus placements and training to the students. T&P cell imparts the requirements of the industry along with their curriculum through programs on preparation of resume, soft skills, communication skills, interview skills, and adapting to the corporate life. To impart the above skills the corporate trainers are invited along with well qualified Training and Placement officers and team.

| File Description | Document |
|----------------------------|-------------------------------|
| Any additional information | View Document |

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

Response: 25

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 6

| File Description | Document |
|--|-------------------------------|
| Number of classrooms and seminar halls with ICT enabled facilities | View Document |
| any additional information | View Document |

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

Response: 38.03

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

| | | | | |
|---------|---------|---------|---------|---------|
| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
| 55 | 50 | 375 | 100 | 170 |

| File Description | Document |
|---|-------------------------------|
| Details of budget allocation, excluding salary during the last five years | View Document |

4.2 Library as a Learning Resource

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

Response:

The library of the college is situated at a place which is easily accessible by all the students and staff. The library staff helps to students and staff for getting books. Our library equipped with modern technology and upgrades as and when new technology arises. Currently we are having following library Management System. Name of the ILMS software: SOUL 2.0, Nature of automation (fully or partially): Partially. Version: 2.0. This is an important component of the Integrated Library Management System (ILMS) which helps to generate various reports/ returns. Reports required for various statutory bodies and inspection teams. History of user and library resources. This will help in maintaining optimum stock of the concerned resources. Tracking of the library resources. This is an important module of the Integrated Library Management System (ILMS) to maintain and keep record the serials (Print Journals, Magazine, bound volumes and Newspapers). Through this module we can track the subscription period and renewal date of the serials.

| File Description | Document |
|----------------------------|-------------------------------|
| Any additional information | View Document |

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

Response:

Institution has started the practice of collecting and maintaining rare books, manuscripts, special reports or any other knowledge resources to benefit students and faculty for their knowledge enhancement, research and exploring new things apart from the standard books.

The student's project reports are kept in library for reference purpose. Rare Books The library of our college has downloaded various required rare books from Rare Book Society Of India

(RBSI). Also some kind of encyclopedia are kept in library. Some books are Machine Drawing by N.D. Bhatte (1963), Engineering Mathematic & B.Sc etc.

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: C. Any 2 of the above

| File Description | Document |
|---|-------------------------------|
| Details of subscriptions like e-journals,e-ShodhSindhu,Shodhganga Membership etc. | View Document |

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

Response: 11.7

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 16.93 | 16 | 3.4 | 12.81 | 9.34 |

| File Description | Document |
|---|-------------------------------|
| Details of annual expenditure for purchase of books and journals during the last five years | View Document |

4.2.5 Availability of remote access to e-resources of the library**Response:** No

| File Description | Document |
|--|-------------------------------|
| Details of remote access to e-resources of the library | View Document |

4.2.6 Percentage per day usage of library by teachers and students**Response:** 7.38**4.2.6.1 Average number of teachers and students using library per day over last one year****Response:** 58

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

4.3 IT Infrastructure**4.3.1 Institution frequently updates its IT facilities including Wi-Fi****Response:**

The institute continuously keeps upgrading the internet bandwidth as latest teaching methods demand the usage of MOOCS/SPOKEN TUTUORAL/NPTEL/Webinars etc. A separate server is used for control of internet facility. The institute keeps upgrading the software packages and also purchases software's currently being used in the industry to make the students industry ready. The institution continuously upgrades multimedia facilities like audio-visual equipment which facilitates the video conference for effective learning process. In addition to this the departments of the institution are equipped with latest projectors for effective teaching through video lectures. For better visualization of the subject topics, the faculty is encouraged to use the ICT facilities. Also the students are supported by the faculty to present their seminar topics using the ICT facilities. All computer labs are having wi-fi facility, some of the computers are equipped with wi-fi LAN card for easy installation.

4.3.2 Student - Computer ratio**Response:** 1.97

| File Description | Document |
|--------------------------|-------------------------------|
| Student - Computer ratio | View Document |

4.3.3 Available bandwidth of internet connection in the Institution (Lease line)**<5 MBPS**

5-20 MBPS

20-35 MBPS

35-50 MBPS

Response: 20-35 MBPS

| File Description | Document |
|--|-------------------------------|
| Details of available bandwidth of internet connection in the Institution | View Document |

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

Response: No

| File Description | Document |
|---|-------------------------------|
| Facilities for e-content development such as Media Centre, Recording facility,LCS | View Document |

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: 36.93

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)

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 154 | 180 | 124 | 138 | 158 |

| File Description | Document |
|--|-------------------------------|
| Details about assigned budget and expenditure on physical facilities and academic facilities | View Document |

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

Response:

The institution has the structured system for creation and maintaining of infrastructure to facilitate effective teaching and learning. The institution has the policy of replacing or upgrading the existing equipment to meet the changes in the syllabus made by the university from time to time. The physical facilities including Laboratories, Classrooms and Computers and so forth are made available for the students those who are admitted in the college. If required the college yearly allocates budget for the maintenance of the laboratories and the classrooms. The maintenance and the cleaning of the classrooms and the laboratories are taken care by third party contract experts and non-teaching staff. The college garden is maintained by the gardener appointed by the institute. The college has adequate number of the computers with internet connections and the utility software's distributed in different locales like office, laboratories, library, departments etc. All the stakeholders have equal opportunity to use those facilities as per the rules and the policies of the institution. The college website is developed and regularly maintained by in-house team of software professionals. The maintenance of UPS and the Generator is regularly done by third party contract and the expenditure is done from college budget. The institution has a tie up with the company from which the RO purifiers were bought such that the regular and routine checkup by the company. Security: Institution Security is looked after by a private security agency in three shifts round the clock. Security guards are on duty at the college main gate, parking areas, and at all academic blocks. Building Hygiene: Sweepers and a supervisor are also regularly allotted to every area of the college who looks after the hygiene of the college with respect to cleaning of floors, corridors, classrooms, toilets etc.

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: 47.41

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 504 | 645 | 633 | 518 | 323 |

File Description

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

Document

[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: 0

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 0 | 0 | 0 | 0 | 0 |

File Description

Number of students benefited by scholarships and freeships besides government schemes in last 5 years

Document

[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: B. Any 6 of the above

| File Description | Document |
|---|-------------------------------|
| Details of capability enhancement and development schemes | View Document |

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: 5.98

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 0 | 164 | 150 | 50 | 0 |

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

5.1.5 Average percentage of students benefited by Vocational Education and Training (VET) during the last five years

Response: 0

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 0 | 0 | 0 | 0 | 0 |

| File Description | Document |
|---|-------------------------------|
| Details of the students benefitted by VET | 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: 6.84

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 56 | 20 | 31 | 15 | 00 |

| File Description | Document |
|---|-------------------------------|
| Self attested list of students placed | View Document |
| Any additional information | View Document |
| Details of student placement during the last five years | View Document |

5.2.2 Percentage of student progression to higher education (previous graduating batch)**Response:** 0.49

5.2.2.1 Number of outgoing students progressing to higher education

Response: 2

| File Description | Document |
|--|-------------------------------|
| Details of student progression to higher education | View Document |
| Upload supporting data for student/alumni | View Document |

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/ TOFEL/ Civil Services/State government examinations)**Response:** 80

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 1 | 7 | 14 | 1 | 0 |

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 1 | 7 | 14 | 1 | 1 |

| File Description | Document |
|---|-------------------------------|
| Number of students qualifying in state/ national/ international level examinations during the last five years | View Document |
| Upload supporting data for the same | View Document |

5.3 Student Participation and Activities**5.3.1 Number of awards/medals for outstanding performance in sports/cultural activities at national**

/ international level (award for a team event should be counted as one) during the last five years.

Response: 0

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 0 | 0 | 0 | 0 | 0 |

| File Description | Document |
|--|-------------------------------|
| Number of awards/medals for outstanding performance in sports/cultural activities at national/international level during the last five years | View Document |

5.3.2 Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution

Response:

The institute has various academic and administrative bodies that have student representation such that Anti ragging squad, Alumni Cell Sports forum, Cultural committee , Departmental Student Associations ,Class representatives, T & P Cell , and student council. The students are involved in various committee formed for organizing conference, workshop, guest lectures at institution & departmental level and was organized by student council, Various co-curricular, extracurricular and cultural activities are organized by the student council members along with the faculty coordinators. Such that Annual tech-fest 'Techno-storm'. Our students successfully organized Technostorm-2K16 and Technostorm-2K17. Various workshops and seminars was organized and looked after by technical secretary and assistant technical secretary along with student volunteers.

In Anti-ragging committee one senior student and one junior student are members of the committee. Their feedback helps to understand issues, if any, at an early stage. In Training and Placement Cell – Elected placement representatives help TPO in arrangement of various activities related to placement. They also act as interface between students and TPO, for any issues or problems faced by students. Also students work together by practicing different mock aptitude tests, Mock Personal Interviews, group discussions etc. to enhance their soft skills. The sports secretary and his team organize and conduct the intercollegiate sports tournament including Open cricket, Carrom, Box cricket, Chess, Volleyball, Badminton, Football etc. The students also enthusiastically organize and participate in various cultural events like Dance Competition Singing Competition Mehandi Competition, Rangoli Competition, Poster Competition, Face painting Competition, Traditional Competition etc. The university representative, general secretary and cultural secretary play major role in the organization for the annual cultural festival .The treasurer along with assistant treasurers takes care of the budget planning and expenses required for various events.

We also have Departmental Student Associations like MESA (Mechanical Engineers' Student Association), CSI (Computer society of India student), EETSA (Electronics and Electronics and Telecommunication Students Association), IEEE student chapter, CSI (Computer Society of India student chapter) who actively participate in various traditional, cultural and technical events throughout the year. Under this associations student organizes various blood donation camp, Chatrapatti Shivaji Maharaj Jayanti, Durga Pooja festival, Ganesh Chaturthi festival and many more. Under IEEE student chapter and CSI (Computer Society of India) student chapter student participates in various technical events/workshops.

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

Response: 15.6

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 18 | 21 | 21 | 18 | 0 |

| File Description | Document |
|--|-------------------------------|
| Number of sports and cultural activities / competitions organised per year | View Document |
| Report of the event | View Document |

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:

The alumni association of BCOE started in the year 2015. It is literally an inspiration for junior students in terms of fixing their targets and preparing to reach their targets. The members of college administration and the senior faculty of all the departments participate in the annual alumni meetings on invitation and seek their advice and support for the development of the institution. An alumni registration form is also created in the college website for better interaction between the college and alumni.

The alumni association has Governing body. Initially it was started with student council and college administration onwards the various alumni members came forward and joint as nominated members from 2016 who are from 2013-14 first batch pass out. All the activities carried out by alumni were finalized and look after by this body.

The objectives of Alumni association shall be to promote, foster and advance fellowship among alumni of BCOE, and to advance the interests, influence and reputation of Bharat college of Engineering by establishing a medium for serving the society.

One-step ahead, as a fruitful contribution of our alumni association we formed **Center for Innovation, Incubation and Entrepreneurship (CIIE) cell** in the college. The incubation center at Bharat College of Engineering looks forward to the participation of students who have vibrant ideas from its alumni and also the local entrepreneurs in and around the Badlapur, This will act as a platform for students to: Connect with successful students- turned- entrepreneurs, Get information about Government and Non-Government initiatives about academics industry collaborations. Our Alumni association also helping in identifying and inviting industrial experts to college for organizing seminars, guest lectures and internship to get opportunities to work on live projects with the help of industry.

| File Description | Document |
|----------------------------|-------------------------------|
| Any additional information | View Document |

5.4.2 Alumni contribution during the last five years

<1 Lakh

1 Lakh - 3 Lakhs

3 Lakhs - 4 Lakhs

4 Lakhs - 5 Lakhs

Response: <1 Lakh

| File Description | Document |
|---------------------------------------|-------------------------------|
| Alumni association audited statements | View Document |

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

Response: 3

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 1 | 1 | 1 | 0 | 0 |

| File Description | Document |
|--|-------------------------------|
| Number of Alumni Association / Chapters meetings conducted during the last five years. | View Document |

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:

BCOE VISION

To become a premier institute in greater Mumbai, India and world, which will impart quality education to every student, moulding them to become perfect instruments and catalysts of progressive change for the organization and society they go into.

BCOE MISSION

BCOE is committed to become one of those educational institutes upon whom society can depend upon for creating positive change agents. It plans to achieve this by keeping following objectives:

- To impart state of the art technical education, meeting the current needs of emerging India and world at large.
- To become an effective and excellent institute of engineering management studies that will meet the needs of rapidly changing economic environment while including qualities of leadership in its students.
- Bharat College of Engineering is managed by eminent educationalist holding high positions in the University of Mumbai and affiliated esteemed institutions. The best among the teaching fraternity from Mumbai Engineering colleges known for their high teaching standards and having vast teaching experience and exposure to industries belong to our college.

The role of the governing body is to:

- To approve the vision and mission of the institution, strategic plans and annual budgets, ensuring that these meet the interests of all stakeholders.
- To ensure the establishment and monitoring of proper, effective and efficient systems of control and accountability
- Our annual Flagship Program - Industry Institute Interaction with the participation of 40 companies from all across the country has been a great success in recent years. Also, the institute has joined hands with Barclays in organizing Employability Initiative in association with NASSCOM Foundation, GTT and NSDC at our college.

- Apart from academic curricula our students have also shown their dynamics in sport by hosting Inter Collegiate Volleyball tournament at University level in this academic year.

NAAC

The Principal, HODs, Deans and coordinators of different committees

monitors and analyses the routine administration and academic work and coordinates

to review the progress and interim development plan for the departments, teaching

and non-teaching staff and the students.

The duties/responsibilities of the Principal:

- . To monitor and conduct academic activities as per the University syllabus and conduct examinations.

- . Admission of students and maintenance of discipline of the college.
- . To monitor & manage the administration of the institution, organize meetings of GB and LMC.
- . To review Institute policies, procedures, and recommendations for appointment, salary, retention and/or promotion of faculty, and ensuring that all policies are followed.
- . To make the employee and students aware of the rules, policies and procedures of the Institute and see to it that they are enforced.
- . To see that the Institute complies with the rules of UoM, AICTE and DTE.

Assure quality at every level by guiding and working in close coordination with the Deans, HODs and in-charges of committees and Section heads and to devise effective means of measurement of quality through the Internal Quality Assurance Cell (IQAC).

6.1.2 The institution practices decentralization and participative management

Response:

- The institution follows the decentralized administration to a considerable extent.
- The Principal of the College is the head of the institute.
- A council of staff members which includes all Heads of Departments gives suggestion to the Principal on all academic matters including the maintenance of discipline.
- The Management representatives visit frequently and discuss the issues related to college development, administration, appointment and infrastructural needs.
- The Principal and staff provide information and suggestions regarding academic and infrastructural development to IQAC. The principal communicates the responsibilities to head of the departments and chairman/ coordinator of various committees. The instructions and responsibilities given by the top Management.

- The College has a team of leaders in all the departments. The decisions and policies related to students, academic as well as co-curricular, are mutually discussed by the team, and decisions are immediately taken and implemented for the benefit of the students.
- Faculty members conduct various development activities, seminars, workshops, industrial visits for the direct development of the students, and report for the same is submitted to the principal and head of the department.
- College has grievance redressal mechanism for the staff members. Internal Complaints Committee is also functional. To address gender related discrepancies, institute has setup an Women Development Cell (WDC). All the procedures, rules and regulations related to recruitment, promotional policies as well as grievance redressal mechanism are well defined and are maintained at the College office and TPO CELL.

- Regular meetings are conducted with the academic and the non-academic staff by the Principal.
- The suggestions and opinions of the staff members are considered.
- HOD's are delegated with the academic and administrative work. The departmental meetings are conducted by the HOD's with the teaching staff focusing on improving the academics, cocurricular and extra curriculum activities.
- Various works are imparted to the faculty, timetable, teaching plans, lesson plans, course material, work dairy which is reviewed by the HOD's at the end of the semester.
- In addition to the academic responsibility shouldered, fulltime teaching staff also takes up administrative work and are on the functional committees that cover all aspects of governance of the college.
- Thus, role of faculty plays a vital role in institutional achievements. As stated earlier, through participative management, the faculties are involved in various decision-making bodies of the institute, such as, Internal Quality Assurance Cell, Academic Monitoring Cell and Grievance Redressal Cell.
- All these committees meet and the major decisions taken are to remove delays and ensure total transparency in the procurement of items.
- Also, each department have its own students Association where they conduct various activities.
- For Electronics and telecommunications, they have: **ETSA: Electronics and Telecommunications Engineering Students' Association.**
- For Mechanical they have: **MESA: Mechanical Engineering Students' Association.**

Activities Under MESA: - Learning Beyond the Curricula:

1. Techno-storm 2K16

Mechanical Engineering Students' Association organized the following co-curricular and extra-curricular activities.

2. ChhatrapatiShivaji Maharaj Jayanti:

Under **MESA** students of Mechanical department had organized the ChhatrapatiShivaji Maharaj Jayanti as on 20 Feb 2016 to honor the first Maratha Empire King.

| File Description | Document |
|----------------------------|-------------------------------|
| Any additional information | View Document |

6.2 Strategy Development and Deployment

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

Response:

The Strategic objective of the management is to improve quality of education by giving students exposure to the latest industry trends and requirements, the institute of Innovative Engineers' and Teachers' Educational Society's **Bharat College of Engineering** planned and successfully arranged for a two days National Conference on Smart Cities (NCSC'17) on 17th-18th March 2017 which was successfully deployed.

Innovative Engineers' and Teachers' Educational Society's **Bharat College of Engineering** had organized a National Conference on Smart Cities (NCSC'17) during 17th-18th March 2017. This conference was supported by CSI Mumbai Chapter, ISTE New Delhi, GIAP Publication Oman, and AAMA Ambernath, Thane. The Prime Minister's office (PMO) has sent a greetings message to the organizing team and participants.

Inaugural ceremony was attended by Prof(Dr.) Udaykumar Yaragatti, Director MNIT Jaipur & I/C Director NIT Goa, Prof (Dr.) Girish Kumar, Professor IIT Bombay, Dr. S C Gupta Hon Head CSI, Mumbai Chapter, Mr. Chandrashekhar Mendon, Director Yojaka India Pvt. Ltd, Mr. Navinchandra Daund, VP Nomura Mumbai, Mr. Amitesh Rahul, Director ADSAT, New Delhi and Prof S S Hegde, Secretary & Trustee IETES. In the inaugural speech Prof. Yaragatti mentioned all possibilities of Smart energy mechanism on relevant theme however Dr. S C Gupta suggested a development model for Badlapur locality.

This conference received a total 124 papers from Maharashtra, Delhi, UP, MP, Jharkhand, West Bengal and Tamilnadu including UAE. Out of these total 56 papers were presented. The conference was concluded by valedictory session on 18th March 2017 where Mr Ajay Upadhyay, RIL and Mr. Umesh Tayde Chairman AAMA delivered invited talk.

The event was very well covered by the local media including daily print media.

Daily Sakal of 20-Mar-2017 (Image No. 6.3 uploded)

The invitees made a formal launch of the event by publishing a souvenir: (Image No. 6.4 uploded)

Inauguration function, Prof. SS Hegde Feliciting Dr. S C Gupta Hon Head CSI, Mumbai Chapters (Image No. 6.5 uploded)

| File Description | Document |
|----------------------------|-------------------------------|
| Any additional information | View Document |

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:

The Principal of the College is the head of the institute. A council of staff members which includes all Heads of Departments gives suggestion to the Principal on all academic matters including the maintenance of discipline. The Management representatives visit frequently and discuss the issues related to college development, administration, appointment and infrastructural needs. The Principal and staff provide information and suggestions regarding academic and infrastructural development to IQAC. The principal communicates the responsibilities to head of the departments and chairman/ coordinator of various committees. The instructions and responsibilities given by the top Management. The College has a team of leaders in all the departments. The decisions and policies related to students, academic as well as co-curricular, are mutually discussed by the team, and decisions are immediately taken and implemented for the benefit of the students. Faculty members conduct various development activities, seminars, workshops, industrial visits for the direct development of the students, and report for the same is submitted to the principal and head of the department. College has grievance redressal mechanism for the staff members. Internal Complaints Committee is also functional. All the procedures, rules and regulations related to recruitment, promotional policies as well as grievance redressal mechanism are well defined and are maintained at the College office and TPO CELL.

| File Description | Document |
|----------------------------|-------------------------------|
| Any additional information | View Document |

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: B. Any 4 of the above

| File Description | Document |
|--|-------------------------------|
| Details of implementation of e-governance in areas of operation Planning and Development, Administration etc | View Document |
| Screen shots of user interfaces | View Document |

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

Response:

YES, we have 1) Women's Development cell (WDC) or Vishaka Kruti committee

2) Anti-Ragging Committee,

3) Grievance Redressal Committee,

4) Committee for SC/ST.

5) Internal Complaint Committee

6) Canteen Committee

- We had taken the meetings regularly. Based on this we have conducted events related to Women's Development Cell.
- Role and Responsibilities of Anti- ragging committee to look into various aspects of ragging, means and methods to prevent it, possible action that can be taken against those who involve in it, and action against offenders' event of ragging. To take decisions and actions related to indiscipline activities of the students in the college as and when required.
- Grievance Redressal Committee minutes all grievances/complaints about salary, payment, overtime, leave, Transfer, promotion, demotion, seniority, work assignment and reasonable orders, working conditions and interpretation of service agreement, etc., shall be made by the employee to the Employer, through proper channel consisting of the HOD/Section. It will be the duty of concerned authority to enquire or pass-on the complaint grievance to his higher authority for disposal as per norms. All such complaints/grievances will be settled/responded to as soon as possible, but in any case, not later than 20 days from the date the grievances reported. If, however, there is a time lag between the issue of order and its compliance, the grievance procedure may immediately be invoked, but the order nevertheless must be complied within the due date. In case of any grievance arising out of charge sheet, suspension order, discharge or dismissal of an employee, the above-mentioned Procedure shall not apply.
- Instead, the discharged or dismissed Employee shall have the right to appeal to the Management Various committees of BCOE.

One of the activity successfully implemented based on the Women's Development Cell (WDC) Or Vishaka Kruti named as "MAITRINI EVENT 2K 16,

A small try for all the EXTC and ETRX girls and teacher to make their day beautiful and memorable was possible by the most awaited event MAITRINI. The event was held on 12th Feb 2016. The event was lightened up by the presence of our head of department and the EXTC and ETRX teachers and students.

The event was started with Sarasvati Pooja by HOD and all other teachers. All the teachers and our working maids were felicitated by HOD with a small gift. An introductory speech about the event MAITRINI was given to give the actual idea about the event MAITRINI. As the name MAITRINI suggests true friends, a beautiful song on friends was performed by our students. An enthusiastic environment was created all around; every staff and every girl were enjoying the most.

The event consisted many games a dare game, antakshari, colour craze, balloon in the back, musical chair, solo singing and dance, a duet song, a group fashion show by TE EXTC BE and SE EXTC. The event was specially enlightened by the fashion show of EXTC teachers and the ETRX teachers. A ramp walk competition was held for both teachers and students. The winners were awarded different gifts.

| File Description | Document |
|----------------------------|-------------------------------|
| Any additional information | View Document |

6.3 Faculty Empowerment Strategies

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

Response:

YES

- 1) BCOE provide Employee's Provident Fund for teaching and non-teaching staff.
- 2) BCOE provide transport facility at free of cost to all teaching and non-teaching staff from Badlapur station to college campus.
- 3) Other than Casual leaves some sort of Special leaves is provided for Non-teaching staff. The faculty members are eligible for availing Casual Leave of 12 days per year. The faculty can avail three permissions of each one-hour duration during regular working time. Vacation leave for teaching faculty are 35 days in summer and 35 days in winter.
- 4) Maternity leave is provided to female staff.
- 5) Free Yoga classes and meditation sessions are conducted for teaching and non-teaching staff members by the college.
- 6) Sports facility for all teaching and non-teaching staff.
- 7) BCOE provide Study leaves for the staff who go for higher Education like Master's or Phd. etc.

8) Financial support for attending /presenting paper at national & international seminars & Conferences, STTP, Financial support for publication of journals.

9) Issue of Uniform for Attenders, Securities.

10) Medical Leave scheme for continued illness / sickness.

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: 1.25

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 0 | 3 | 3 | 0 | 0 |

File Description

Details of teachers provided with financial support to attend conferences, workshops etc. during the last five years

Document

[View Document](#)

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

Response: 0.8

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 2 | 1 | 1 | 0 | 0 |

File Description

Details of professional development / administrative training programs organized by the Institution for teaching and non teaching staff

Document

[View Document](#)

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

Response: 33.3

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 35 | 56 | 19 | 23 | 19 |

| File Description | Document |
|--|-------------------------------|
| Details of teachers attending professional development programs during the last five years | View Document |

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

Response:

The college performance appraisal system consists of the following components:

- Self-appraisal: The faculty submits self-appraisal report at the end of every academic year.
- Student feedback on teaching: Every semester the students give feedback about their course teachers.
- Staff Appraisal by the Head of the Department: At the end of every academic year, report of the contributions of the staff members in college activities and their performance is reported by the Head of the Department.

The outcome of the review of the Performance Appraisal Reports:

- The self-appraisal report and the student feedback are analyzed by the HOD. Based on the student feedback, the HOD gives suggestions for improvement in teaching, if required. The self-appraisal helps to improve an individual's performance and his/her contribution to the institutional activities.
- Staff Appraisal by the Head of the Department is reviewed by the Director and HRD committee. Staff members' performance is discussed and opportunities are created to improve the same.

Some of the major decisions on the basis of Performance Appraisal:

Reports are as follows:

- To motivate and guide faculty members for quality publications, senior retired professors from IIT

and IISc are appointed as Chair professors.

- Given the difficulty faced by the faculty members in pursuing Ph.D. programs along with their teaching responsibilities, it is decided to approve two years paid study leave to pursue Ph.D.
- It is decided to provide incentives for quality publications and funded research in order to motivate faculty members for quality publications and research projects.

| File Description | Document |
|----------------------------|-------------------------------|
| Any additional information | View Document |

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

Accounts are audited regularly by certified Chartered Accountant appointed by the management. The Accounting Committee looks after the financial audit and it is presented to the certified Chartered Accountant.

- College conducts the internal as well as external financial audits regularly. The internal financial accounting is completed by 10th of every month. The internal auditor appointed by the College cross checks and verifies these calculations and also finds out the shortcomings/ errors and rectifies the same.
- These errors and/ or shortcomings are explained to the College Accountant and the Office Superintendent by the Internal Auditor. The errors/ shortcomings in the accounts are rectified as per the instructions of the Internal Auditor immediately.
- Suggestion by the Auditor: 1. Physical Cash in hand should be verified on the last day by the Head of the Dept. and same should be duly signed by the Head of the Unit. 2. Daily cash records should be maintained in the Cash book to keep the control on Cash. 3. There should be no difference in the Institutional Balances hence reconciliation and confirmation must be properly done.
- Funds received from reservation are required to distribute all the students in their account. This account is also verified and audited by government regularly. The last external audit was done in 2016-2017 and no major objections were raised during the audit.

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

Response: 0

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

| | | | | |
|---------|---------|---------|---------|---------|
| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
| 0 | 0 | 0 | 0 | 0 |

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

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

Response:

Mobilization of Funds: The regular fees are deposited by the students directly in the Bank Account of the College. Scholarships & Freeships from the Government are periodically received and the share of Tuition Fees & other College fees get deposited in the Bank Account of the College. Apart from the funds received by the institute through fees collection, funds are mobilized as per the policy defined by the institute as follows: Fund mobilization for co-curricular and extra-curricular activities. As the College is recognized by UGC College gets the general development grant in every five-year plan.

Optimal utilization of Resources: The College property (college playground etc.) is given to the villagers for the Cricket Tournament that conduct every year as a part of social work. Also, our college gives transport facility for the people who comes during the “Gajanan Maharaj Utsav” which was held during February of every year as a part of social work. The Commerce faculty of the College having the expertise in accounting help the College staff as well as the College office by giving the valuable suggestions time to time as per the requirement. The teaching and non-teaching staff of the Department of Computer Science always extends the hand towards the non-Computer staff in the College by helping them in their Computer related queries. Technical team helps all other departments by sharing the required gadgets time to time. Institute assumes its responsibility for appropriate utilization of released funds either in

single instalment or multiple.

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:

- The Institute has established recently the Internal Quality Assurance Cell with the following composition.
- IQAC Committee: Chairman: Principal of the College Convener: Academic coordinator of the

College Members: All Heads of the Departments and One of the member from Industry/ Institutions.

- IQAC Committee have taken the initiative and is now going to organized two best activity program to assure quality:

1) One day workshop on “NPTEL Awareness Program“ for Faculty on 15 Jan-2018

2) STTP on "Outcome based learning" during 8 Jan to 13 Jan -2018.

- The policy of the institution with regard to quality assurance is: Fixing quality parameters for various academic and administrative activities.
- Monitoring the organization of class work and related academic activities.
- Conducting Internal Quality Audits periodically to verify the effectiveness of measures taken in reaching the quality parameters.
- Documenting various programs/academic activities leading to quality improvement and reviewing their effectiveness in quality improvement/ sustenance all the decisions of the IQAC were approved by management for implementation and 90% of them were actually implemented. The following suggestions of the external members of IQAC have been implemented. Conduct of Industry Related Certification Programmes. Conduct of
- Faculty enablement programmes in collaboration with premier academic institutions Students and alumni contribute to the effective functioning of the IQAC. The student members of Class Monitoring Committees offer their observations / views for enhancing teaching – learning process and conduct of various co-curricular / extracurricular activities in the institute Alumni are very active and productive in analyzing the requirements of external environment and attributes of the other colleagues and communicating the remedial measures to be taken up at institution level.
- Alumni are sensitizing the students by sharing their views in several inter active sessions with students and staff etc, every year. Staff contribution: The IQAC constituted different subcommittees in which most of the staff members are involved in formulating and executing the decisions of IQAC.
- The decisions of IQAC are widely communicated to staff members through circulars/ notices. Academic System: IQAC is the main academic body to monitor and control all the academic related activities, including the preparation of academic calendar.
- IQAC is also responsible for faculty training in the usage of teaching tools in multimedia and the evaluation of student feedback, peer evaluation and effective counselling.
- Administrative System: By forming various administrative related Committees with defined duties and responsibilities of various activities.
- Internal and external audit system for college accounts along with the computerization of all office functions.
- Faculty is being deputed to various training programmes related to quality assurance procedures and standards.
- All stake holders are consulted prior to curriculum development: Faculty, Students, Industry, Management, Alumni, Parents, Government, Special interest groups. It encourages continuous improvement in curriculum. It assesses graduates in knowledge, skills and attitudes to be industry ready.

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:

As the Institute has established recently the Internal Quality Assurance Cell and hence the following methods are considered for formulating the policies on Teaching -Learning Process:

- The intra semester and end semester feedbacks on all the subjects are taken from the students for every semester. The feedback is analysed and evaluated on the scale of 10 and every teacher is provided with a copy of feedback for making necessary corrections.
- Further, teachers are counselled by the head of the department, Principal and Director if required. The academic coordinator also receives the feedback by interacting with a selected group of students from each class.
- Monitoring is also done to assess the uniformity in syllabus coverage, and also the quality of teaching. Annual review meetings are conducted to evaluate the knowledge and ability of the faculty in teaching, the quality of course material and assignments prepared by the faculty are assessed internally and suitable suggestions for enriching the course materials.
- Evaluation procedures and feedback the evaluation of faculty by the students through feedback forms is done. This feedback is analyzed and appropriate suggestions are given to the faculty by the HOD concerned and the Principal to see that they rectify the short comings. The feedback forms mainly focuses on the various teaching skills of the faculty members, like presentation, communication, knowledge, content covered, innovative practices and laboratory work.
- The head of the institution interacts with few students of each class and takes the feedback on the teachers about the effectiveness of their classes and learning material provided. Performance and self-appraisals are taken from the faculty at the end of every academic year and their performance is evaluated.

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

Response: 0

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 0 | 0 | 0 | 0 | 0 |

| File Description | Document |
|--|-------------------------------|
| Number of quality initiatives by IQAC per year for promoting quality culture | View Document |
| Any additional information | View Document |

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: D. Any 1 of the above

| File Description | Document |
|---|-------------------------------|
| Details of Quality assurance initiatives of the institution | View Document |

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:**

IQAC has initiated Quality enhancement initiatives in this current year 2017-18.

Skill oriented courses

ICT enabled teaching and learning Aids were purchased, installed and are being used. Projector & Screen with Computer and loudspeaker sets are also used for interactive learning experience.

White boards are installed wherever possible and necessary to create chalk-dust-free and clean laboratories and class rooms. (Electronics Lab., Digital classrooms etc.)

Internet connectivity is extended to all the Computers in the Departments as well as Laboratories for ease of access to information related to the respective subject of interest. Microsoft Windows as well as Microsoft Office License copies are upgraded twice as per the need at the various departments and office.

Wherever required the independent Scanner cum Printers are installed with the latest Computer configuration for fast and easy operations of the various departments.

Solar panels are installed on the terrace of the College and annually approx. 3000kWh energy is coupled to the State Electricity Board's Grid.

Display boards as well as soft boards are installed as per the need at various departments.

Clean water dispensing machines are installed at the convenient locations in the premises

Online Admission process is successfully implemented by the College since 2 years for all the classes and faculties of the College. Independent Examination Department is developed .

Video Lectures are prepared by our Computer Science Department for the various subjects and uploaded on YouTube channel.

Enhance institute infrastructure to accommodate increase in intake, research, economic development, technology development and transfer; contribute to an enhanced quality of life in the region; and facilitate sustainable domestic and international economic development and competitiveness.

Promote and sustain a campus environment that supports a high quality of life and learning that positively impacts retention through graduation and produces knowledgeable and culturally competent citizens able to lead effectively and compete globally. Improve academic interaction and participation of institutes / universities of national and international eminence in order to facilitate learning, innovation and research. Continuous and involved participation in teaching learning process and research leading to joint mini and micro satellite mission with the participation faculty and students.

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: 1

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 1 | 0 | 0 | 0 | 0 |

File Description

Document

Report of the event

[View Document](#)

List of gender equity promotion programs organized by the institution

[View Document](#)

7.1.2

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

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

Response:

a) Safety and Security:

Students wear ID cards at all times and outsiders are checked by security staff. Female faculty members ensure that all girl students leave the campus after late night events like AnnualDay. Female faculty and girl students are regularly counseled on safety and security. Women Development Cell (WDC) VISHAKHA KRUTI has been constituted to empower and safe guard the rights of female member's faculty staff and students of the Institution. The WDC works to promote gender sensitivity in the Institution and produce harmonious atmosphere on the campus. The College premises and corridors are under CCTV.

b) Counseling

Prof. Vandana Pakhale member of VISHAKHA KRUTI (WDC) counseling students on sexual harassment to create safe environment in institute. She explained about what is sexual harassment, process of making

complaints, Punishment and compensation. Also student get aware of compliant committee

c) Common Room

The Institution has established a separate specious room with necessary arrangement for boys and girls to take rest. If required and it is produced with other facilities required for women.

7.1.3 Alternate Energy initiatives such as:

1. Percentage of annual power requirement of the Institution met by the renewable energy sources

Response: 38

7.1.3.1 Annual power requirement met by the renewable energy sources (in KWH)

Response: 7600

7.1.3.2 Total annual power requirement (in KWH)

Response: 20000

| File Description | Document |
|---|-------------------------------|
| Details of power requirement of the Institution met by renewable energy sources | View Document |

7.1.4 Percentage of annual lighting power requirements met through LED bulbs

Response: 57.14

7.1.4.1 Annual lighting power requirement met through LED bulbs (in KWH)

Response: 40

7.1.4.2 Annual lighting power requirement (in KWH)

Response: 70

| File Description | Document |
|--|-------------------------------|
| Details of lighting power requirements met through LED bulbs | View Document |

7.1.5 Waste Management steps including:

- Solid waste management

- **Liquid waste management**
- **E-waste management**

Response:**Solid waste management**

Waste is something one cannot do away with – completely. However, it is possible to reduce generation of waste, and manage wastes scientifically. This demands planning, preparation of logistics and proper treatment and disposal of different types of wastes. With focus of this recently our students implemented **Biogas project**. To make it day today practice college is planning to expand.

Liquid waste management:

Liquid waste from the points of generation like the canteen, laundry, and toilet is segregated and let out as effluent into a common drainage facility.

E-waste management

E – waste is hazardous to the environment and health of people and it needs to be recycled and disposed in appropriate ways. The non-working computer spare parts, electronic scrap components and other nonworking equipments are used for practical purpose in order to explain the students the parts of the product which they used to study in their theory lectures for example Aurdino kits, pcb layouts, ICs, modules form projects are reusable.

| File Description | Document |
|----------------------------|-------------------------------|
| Any additional information | View Document |

7.1.6 Rain water harvesting structures and utilization in the campus**Response:**

Our college is located in maharashtra, konkan region. In this area due to heavy rain, water level is at satisfactory. As college is situated near to river and one of well known baravi dam, which has good capacity of water storage. There is enough open space and mud paths to harvest the rain waters. As college is surrounded by mountains, There is enough extent of plantation to reduce evaporative loss and soil erosion. A survey has been carried out and storage tanks are being constructed in the campus. Trees and lawns are maintained with water drips and sprinklers to avoid water wastage. Waste water is used for gardening. Rainwater harvesting is a technology used in our campus to collect, convey and store rain water for later use from relatively clean surfaces such as a roof, land surface or rock catchment.

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:

As college is situated in rural area thereby the student belongs to medium and lower economical strata. Since inception the college has provided transport for faculty and students coming from faraway locations. Some of our students use public transport facility. Some faculty in the college uses car sharing to commute the work place. No plastic is allowed in the premises. Institute taking care burning of plastic waste in the campus. Also providing a large number of dustbin at all major parts of the campus. The ERP system is used in college for to reduce paper work. Which helps to store student information during admission process also used in examination department. Institute use LAN network connection for sharing data and information instead of using printout. Also staff member uses official email for document sharing. Tree plantation is take place to maintain green landscaping.

7.1.8 Average percentage expenditure on green initiatives and waste management excluding salary component during the last five years**Response:** 2.31

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)

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 8.7 | 19.15 | 8.82 | 4.81 | 8.69 |

File Description**Document**

Details of expenditure on green initiatives and waste management during the last five years

[View Document](#)

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:** B. At least 6 of the above

| File Description | Document |
|---|-------------------------------|
| Resources available in the institution for Divyangjan | View Document |

7.1.10 Number of Specific initiatives to address locational advantages and disadvantages during the last five years**Response:** 7

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

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 5 | 1 | 1 | 0 | 0 |

| File Description | Document |
|---|-------------------------------|
| Number of Specific initiatives to address locational advantages and disadvantages | View Document |
| Any additional information | View Document |

7.1.11 Number of initiatives taken to engage with and contribute to local community during the last five years (Not addressed elsewhere)**Response:** 6

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

| | | | | |
|---------|---------|---------|---------|---------|
| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
| 3 | 1 | 2 | 0 | 0 |

| File Description | Document |
|--|-------------------------------|
| Details of initiatives taken to engage with local community during the last five years | View Document |
| Report of the event | View Document |

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

7.1.13 Display of core values in the institution and on its website

Response: Yes

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

Response: Yes

| File Description | Document |
|---|-------------------------------|
| Any additional information | View Document |
| Details of activities organized to increase consciousness about national identities and symbols | View Document |

7.1.15 The institution offers a course on Human Values and professional ethics

Response: Yes

| File Description | Document |
|----------------------------|-------------------------------|
| Any additional information | View Document |

7.1.16 The institution functioning is as per professional code of prescribed / suggested by statutory bodies / regulatory authorities for different professions

Response: Yes

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 harmony and social cohesion as well as for observance of fundamental duties during the last five years

Response: 2

| File Description | Document |
|--|-------------------------------|
| List of activities conducted for promotion of universal values | View Document |

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

Response:

ChhatrapatiShivaji Maharaj Jayanti: 20 Feb 2016

Under MESA students of Mechanical department had organized the ChhatrapatiShivaji Maharaj Jayanti as on 20 Feb 2016 to honor the first Maratha Empire King.

Teachers' Day is a special day for the appreciation of [teachers](#), and may include celebrations to honor them for their special contributions in a particular field area, or the community in general..EXTC department students celebrates teacher's day on 5th sept 2016.

Independence Day

Independence Day on August 15th is celebrated every year.The National Day is followed since 1947. Flag hoisting ceremonies take place in the institute.

YOGA Day

Weight loss, a strong and flexible body, glowing beautiful skin, peaceful mind, good health – whatever you may be looking for, yoga has it on offer. However, very often, yoga is only partially understood as being limited to asanas (yoga poses). As such, its benefits are only perceived to be at the body level and we fail to realize the immense *benefits yoga* offers in uniting the body, mind and breath. When you are in harmony, the journey through life is calmer, happier and more fulfilling.

- All-round fitness
- Weight loss
- Stress relief
- Inner peace
- Improved immunity
- Living with greater awareness
- Better relationships
- Increased energy
- Better flexibility & posture

- Better intuition

With all this and much more to offer, the *benefits of yoga* are felt in a profound yet subtle manner.

Bharat College of Engineering celebrated international yoga day on 21 June 2017. Faculty member participated with enthusiasm.

| File Description | Document |
|----------------------------|-------------------------------|
| Any additional information | View Document |

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

Response:

The functions of the institution and its academic and administrative units are governed by the principles of participation and transparency. Formulation of development objectives, directives and guidelines with specific plans for implementation by aligning the academic and administrative aspects improves the overall quality of the institutional provisions. Effective leadership by setting values and participative decision-making process is key not only to achieve the vision, mission and goals of the institution but also in building the organizational culture. The formal and informal arrangements in the institution to co-ordinate the academic and administrative planning and implementation reflects the institutions efforts in achieving its vision. The institution has developed strategies for mobilizing resources and ensures transparency in financial management of the institution. Budgeting and optimum utilization of finance as well as mobilization of resources are the key issues handled by the BCOE Management. There are established procedures and processes for planning and allocation of financial resources which leads to effective & efficient use of Financial resources. The Budget Process which is an inclusive and collaborative process is as follows: Departmental Budget Templates are circulated to collect the Budget Requirements for the forthcoming year. The respective Hod's of the departments then submit the requirements in the Standardized format which are consolidated. The various heads of the budget include the department capital requirements, staff cost based on the manpower plan, student & faculty related expenses, event expenses, research & development, administrative expenses including lab consumables, repairs & maintenance & other infrastructure related expenses, etc. The utilization of the current year approved budget along with the budget projected for the forthcoming year is presented to the Finance Committee after discussions in the Executive Committee. After the approval of the finance committee, it is also approved by the Governing Council. Feedback from the stakeholders on a regular basis and acting on the same is an effective mechanism to ensure transparency and effective management.

7.2 Best Practices

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

Response:

Best Practice 1:

Title: “Aptitude and employment skill Enhancement”

Objective:

The sole objective of practice is to make students able to critically evaluate various real life situations by resorting to analysis of key issues and factors.

Context:

This practice provides solutions, a part of the wider umbrella Communications Skills Training programs, are a shortcut to building experience. By providing the right inputs, this can bring students workforce up the learning curve in a fast, cost-effective and timely manner. This Training will not only save learning time but also help build and refine student workforce, leading to operational excellence and an improvement in the use of English in the workplace.

Practice

The 40-hour course introduced third and final year students for all the branches of engineering. Students are divided in five batches. These sessions include as follows

- 1) **Quantitative Aptitude**
- 2) **Logical Reasoning**
- 3) **Verbal Reasoning**
- 4) **Data Interpretation**
- 5) **Group Discussion Training**
- 6) **Interview Techniques.**

Evidence of Success:

Assessment of the students is carried out at the end to understand the impact of the program which is conveyed to the students individually.

Following generalized statements can be drawn on the basis of students feedback.

§ The course is observed to help students improve their skills such as individual report writing, creative and strategic thinking etc.

§ There is a noticeable positive change in the overall personality of the students who have completed this course.

§ Mock interviews and group discussion sessions conducted under this program have resulted into positive feedback.

Problems encountered and resources required:

This program needs to be planned beyond the students' regular academic engagements. Hence, it becomes challenging to identify free time-slots for large groups of students. A separate faculty coordinator had to be assigned for the smooth conduction of the program. The college has provide seminar hall

Best Practice 2:

Title: "TECHNOSTORM" Race, Fight and Chase Victory...

Objective: an initiative under MESA for the students of university of Mumbai for the enhancement and exhibition of technical and non-technical expertise in various fields and to bring about their technical knowledge development.

Context:

This event is compliance with eb-freezer off-road Dirt Race (IC-RC) –King of the Ring (Robowar) ,Robo Racing ,Robo Soccer ,Technical Paper Presentation ,LineFollower Robots, Lan Gaming (cs, Nfs Most Wanted, Mini Militia) . All the participants and winners awarded with the certificate.

Practice:

Institute celebrate this Symposium year wise from 2016 and continue with 2017 as well. In this event students from MESA organizes the number of skillful and challenging events for the participants. They worked for the industrial contribution for the event in trumps of prize money and other contributions.

Evidence of Success:

As we continue with university level technical event, the response from overall event was booming ,No of participants in various technical and non technical event goes high from various institutes for the events as overall turnout was around 700-800 students.

Problems encountered and resources required:

As this events was the mainly contributed by the MESA students , they faces various problems at their level like Conforming event dates by observing academia schedule .

| File Description | Document |
|----------------------------|-------------------------------|
| Any additional information | View Document |

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:

The incredible journey from teaching to learning has witness many milestones which includes proactive participation from students and innovative methodology by teaching staff. The collective list of activities which upheld institutional performance higher is in bound and outbound oriented. The students along with faculty members visited industries like IT department of

Mahindra and Mahindra Financial Services Limited(Woroli) , Milestone (Thane),Reliance JIO(new Bombay)Etc.Where they have learned working culture of as industry in and outside and utilize the opportunity to interact industrial experts. This adds values to their curriculum. Students under guidance of faculty member explored symposium/conference/National Industry Targeted Aptitude Test(NITAT) which helps students realizing their potential for facing recruitment drives. Institutional progressive vision also reviews that continuous value addition to its staff member is indeed essential. In order to sustained on the mission the institute acquired it lets its staff members to explore knowledge by various means. They have visited conferences, symposiums, conclaves and meets. Viz. Prof. Ravi Prakash represented college at principals conclave (WE Management), FTPO-Nasscom meet etc. Prof .Omkar Bhat, Prof. Ankur Sharma Prof. Charulata Borole have been accompanying students on various field trips.

5. CONCLUSION

Additional Information :

The institute is imparting technical education since eight years in rural area despite many constraints and serving the society.

Concluding Remarks :

Finally here conclude that, College has well equipped with facilities and having rapidly changing economic environment while inculcating qualities of leadership. Also to cultivate an environment promoting values and character development in students. To create a culture of Innovation and out of the box thinking.

NAAC