

# **Annual Quality Assurance Report (AQAR) 2018-19**



**Submitted to**

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

*An Autonomous Institution of the University Grants Commission*  
P. O. Box. No. 1075, Opp: NLSIU, Nagarbhavi, **Bengaluru - 560 072**, India



**Submitted by**

**Mahatma Gandhi Mission's College of Engineering,**  
Near Air Port, Hingoli Road, Nanded-431605

# **The Annual Quality Assurance Report (AQAR) of the IQAC**

## **Part-A**

### **Data of Institution**

**Name of the Institution** : **Mahatma Gandhi Mission's College Of Engineering, Nanded-431605.**

Name of the Head of the Institution : Dr. Mrs. Geeta S. Lathkar  
Designation : Director  
Does the institution function : Yes  
from own campus  
Phone no./Alternate phone no : 02462-222999, 02462-222592  
Mobile no. : +91-9850455553  
Registered e-mail : director\_naac@mgmcen.ac.in

Alternate e-mail : [director@mgmcen.ac.in](mailto:director@mgmcen.ac.in)  
: [kotgire\\_sl@mgmcen.ac.in](mailto:kotgire_sl@mgmcen.ac.in)  
Address : Near Airport, Hingoli Road, Nanded  
City/Town : NANDED  
State / UT : Maharashtra  
Pin Code : 431605

### **Institutional status :**

Affiliated / Constituent : Affiliated  
Type of Institution : Co-education  
Location : Semi-urban  
Financial Status : Self financing  
Name of the Affiliating University : Dr.Babasaheb Ambedkar Technological University, Lonere {B.A.T.U.}  
Name of the IQAC Co-ordinator : Dr. Harkare M.G.  
Cell No. : +91-9881747185  
Alternate phone / Mobile no. : 9881648391  
IQAC e-mail address : harkare\_mg@mgmcen.ac.in  
Alternate Email address : [patil\\_jh@mgmcen.ac.in](mailto:patil_jh@mgmcen.ac.in)

**3. Website address** : [www.mgmcen.ac.in](http://www.mgmcen.ac.in)

Web-link of the AQAR : <http://mgmcen.ac.in/docs/AQAR%202017-18.pdf>  
(Previous Academic Year) : NA

**4. Academic Calendar prepared during the year?** : Yes

Weblink : <http://mgmcen.ac.in/academic-calendar.aspx>

| 5. Accreditation Details |       |      |                       |                     |
|--------------------------|-------|------|-----------------------|---------------------|
| Cycle                    | Grade | CGPA | Year of Accreditation | Validity Period     |
| 1 <sup>st</sup>          | B++   | 2.86 | 2018                  | From : 2018 to 2023 |

**6. Date of Establishment of IQAC : 01/11/ 2016**

## 7. Internal Quality Assurance System

| 7.1 Quality initiatives by IQAC during the year for promoting quality culture                                                                                                                                                                                          |                                                   |                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Item /Title of the quality initiative by IQAC                                                                                                                                                                                                                          | Date & duration                                   | Number of participants/beneficiaries                                                                                                                               |
| i) Conduction of Academic Administrative Audit { Internal }                                                                                                                                                                                                            | June/July 2019<br>(For the academic year 2018-19) | All departments                                                                                                                                                    |
| ii) The Chairperson and Committee decided to get faculty members reistered for FDP201x organized by IIT Bombay “Pedagogy for online and blended Teaching Learning Process.” This FDP consisted of online work by individual participants and face to face interaction. | 30 October to<br>18 December 2018                 | This FDP201x consisted of online work by individual participants and face to face interaction.<br><b>Forty Five</b> participants successfully completed the course |

**Note: Some Quality Assurance initiatives of the institution are:**  
(Indicative list)

- ☐ Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback from all stakeholders collected, analysed and used for improvements : **yes**
- ☐ Academic Administrative Audit (AAA) conducted and its follow up action : **yes**
- ☐ Participation in NIRF : **No**
- ☐ ISO Certification : **No**
- ☐ NBA etc. : **(2006-2009)**

Any other Quality Audit : **AISHE, Academic Administrative Audit (AAA).**

**8. Provide the list of funds by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/ World Bank/CPE of UGC etc.**

| Institution/<br>Department/Faculty                                         | Scheme                                                                                                                     | Funding<br>agency       | Year of award | Amount   |
|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------|----------|
|                                                                            |                                                                                                                            |                         | with duration |          |
| Dr. Mrs. A.M.<br>Rajurakar<br>Dept of Computer<br>Science &<br>Engineering | Development of<br>Automated system<br>for musculoskeletal<br>image analysis for<br>interpretation for<br>quicker diagnosis | BRNS,<br>BARC<br>Mumbai | 2014-18       | 25 Lakhs |

**9. Whether composition of IQAC as per latest**

**NAAC guidelines** : Yes

**10. No. of IQAC meetings held during the year** : 02

The minutes of IQAC meeting and compliance to the decisions have been uploaded on the institutional website..... : Yes

**11. Whether IQAC received funding from any of the funding agency to support its Activities during the year?** : No

**12. Significant contributions made by IQAC during the current year:**

- \* Up-gradation and renovation of laboratories.
- \* Successful conduction of FDP 201X (“Foundation program in ICT for education” & “Pedagogy for online and blended Teaching Learning process.”) organized by IIT Bombay.
- \* Successful Completion of Technical & Soft-skills Training Courses through Training and placement cell to focus on placements.
- \* Active participation of faculty and students Swayam and Unnat Bharat Abhiyaan.

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

|  | <b>Plan of Action</b>                                                                                                                                                                                                                                                                                        | <b>Achievements/Outcomes</b>                                                                                                                                                                                                                                                                                          |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <ol style="list-style-type: none"> <li>1. To get the faculty members registered for upcoming FDP 201x organized by IIT Bombay.</li> <li>2. Training Courses. <ol style="list-style-type: none"> <li>i. Fundamentals of Basic English</li> <li>ii. Aptitude &amp; Soft Skills Training</li> </ol> </li> </ol> | <p>This FDP201x consisted of online work by individual participants and face to face interaction. <b>Forty Five</b> participants successfully completed the course.</p> <p>This training helps the students for placement &amp; total 139 students of various Departments were placed in different Organizations.</p> |

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

Name of the statutory body : Governing Council

Date of Meeting : 30/10/2019

**15. Whether NAAC or any other accredited body(s) visited**

**IQAC or interacted with it to Assess the functioning?** : Visited on 23.08.2018 &  
**NAAC Committee visited Date** 24.08.2018 & got  
Accredited with a CGPA  
2.86 & B++ Grade on 26<sup>th</sup>  
September 2019

**16. Whether institutional data submitted to AISHE** : Yes

Year 2018-19-Date of Submission : 10 Jan 2019

**17. Does the Institute have Management Information System?** : Yes

The Institute has acquired Management Information System (MIS) which is Web based College Administration System named as CASERP. Institution itself maintains in-house CASERP server. Earlier the system was paper based. However now it is online and paperless.

CASERP enhance all Institutional functioning i.e. Academic Administration, Financial & General Administration. Every stake holder i.e. students, staffs, parents are having access to this CASERP by unique login-id and can get the related update information.

**Academic administration:**

The institutional unique login ID & Institutional email ID is given to all students and faculties. Academic calendar is displayed on website taking care of all curricular and co-curricular activities, holidays, etc.

The subject wise teaching plan and Time-table is made available online to all concerned students. In order to get the attendance-updates of students, it is mandatory for the faculties to update daily attendance in CASERP.

Faculty, Parents & students can also see the Teaching-plan, status of attendance, completion of syllabus, Test-Marks and related other information.

Apart from this Test-Marks SMS and Attendance-SMS after every 15 days are sent to the parents. At the end of Submission Card of students gets generated.

Student's important documents are uploaded in their personal D-Wallet (Digital Wallet)

**Financial Administration**

All types of Students' fees are collected through SBI Collect and their personal ledgers get maintained in CASERP. 'SBI Collect' has reduced the overhead office staff for the collection of fees and students for the payment of fees by standing in a queue.

Parents and students can see the status of paid fees and outstanding fees through their CASERP login. This facilitated the students and parents in a great way.

Accounting, Fees, Scholarship and Salary modules are inculcated in CASERP. Cash-book, Bank-Book, Daily Collection Report, Fees outstanding, and all related reports are generated through CASERP. Salary slips of employees get generated and can be seen in their personal CASERP login.

**General Administration:**

Biometric attendance of all employees is maintained in CASERP. Reports like daily attendance, span-wise attendance, movement register, late-arrival, early departure, yet not reported are generated on daily, span-wise and person-wise basis.

Online leave is incorporated where employee can apply for leave, get recommended and approved by the concern authority. Related Approved/Rejected sms is sent to the concern employee. Real time Reports of all types of leaves span-wise, person-wise, session-wise, application-status-wise get generated. These reports can get anytime from anywhere.

Biometric-Leave module is interlinked to salary module to generate the salary.

All important documents/certificates of employees are maintained in the Digital Wallet of individual's CASERP login. These can be accessed and referred at anytime from anywhere. Students' certificate/document like Bonafide, Expenditure, character etc is generated online. Store module and result Analysis are in process.

## Criterion I – Curricular Aspects

### 1.1 Curricular Planning and Implementation

1.1.1 The institution has the mechanism for well planned curriculum delivery and documentation process. The Institute is affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere in the academic year 2017-2018 and for current Academic year 2019-2020 first to third year are affiliated to DBATU and fourth year is still affiliated to Swami Ramanand Teerth Marathwada University, Nanded. The relevant Curriculum is framed by SRTMU and DBATU. The Institute adopts a systematic approach for effective curriculum implementation as given below:

- The SRTMU and DBATU publishes yearly academic calendar at the beginning of every academic year. Based on this academic calendar The Director prepares the Institutional academic calendar having a prior discussion with Heads of the department and Administrative Officer. It is then distributed to the departments. The Time Table coordinator of each department prepares Time-Table for each Class in Enterprise Resource Planning (ERP) software system.
- Irrespective of university calendar, we start our teaching schedule even before university results.
- HOD allocates subjects to the faculty as per area of specialization. This activity is carried out immediately after the end of previous semester so that faculty members get enough time for preparation of the allotted subjects.
- Every faculty member prepares a teaching plan of his/her subject in ERP software system in accordance with the Institute Academic Calendar and University Syllabus. The complete documentation is prepared and maintained in ERP software. We follow the process of preparing teaching plans since 2005.
- The lecture conduction is daily monitored by the Administrative Officer. The faculty members update their lecture conduction and student attendance in ERP after every lecture. Director, HOD, Academic Cell Coordinators of the departments monitor the progress of curriculum implementation at their own levels every month.
- Faculty members maintain course file having – Course Objectives, Course Outcomes, Individual Time-Table, Teaching Plan, Assignments, Test Marks, University Question Papers, Student Attendance, and Teaching Notes.
- Lab Manuals are prepared by faculty for the respective subject practicals.
- Classroom teaching is supplemented by seminars, mini-projects, expert lectures, industry and field visits, in-house and industry sponsored projects.
- Faculty members adopt innovative teaching practices like ICT based teaching methods, using models and simulations, blogs, video lectures, etc.
- Internet facility is available through wired and Wi-Fi networks for the access of e-books, e-journals, e-learning resources and NPTEL video lectures.
- The college has well-equipped library and laboratories to help faculty members for effective delivery of the curriculum. LCD projectors are made available in the classrooms for effective teaching.
- Monthly class attendance is displayed and conveyed to students as well as parents through SMS. We follow this practice since quite a long time.
- Continuous assessment of term work is done. Parents are involved in the education process of their wards keeping them informed regarding their attendance and test marks.
- Student's feedback is taken to assess the teaching-learning process. Corrective measures are taken.

- To cope with recent trends and demands of the industry, Institute has enough subscription to e-journals and e-books.
- In addition to the university specified teaching hours, extra lectures and tutorials are conducted for first year students.

### 1.1.2 Number of certificate/diploma programs introduced during the Academic year

\*These are all Certificate Courses offered by our Institute.

| Name of the Certificate course                  | Name of the Diploma course | Date of introduction and duration                    | Focus on Employability/ Entrepreneurship | Skill development |
|-------------------------------------------------|----------------------------|------------------------------------------------------|------------------------------------------|-------------------|
| Scilab                                          |                            | 26 <sup>th</sup> March to 9 <sup>th</sup> April 2019 | yes                                      | yes               |
| GATE Coaching                                   |                            | June 2018 – January 2019                             |                                          | yes               |
| Fundamentals of basic English Grammar           |                            | 17/12/2019 – 5/1/2019                                | yes                                      | yes               |
| Engineer the Engineers                          |                            | 26/01/2019 – 29/01/2019                              | yes                                      | yes               |
| TCS Interview Training                          |                            | 23/09/2018 – 24/09/2018                              | yes                                      | yes               |
| Aptitude Training                               |                            | 27/04/2019 – 28/04/2019                              | yes                                      | yes               |
| SWAYAM online courses<br>Latex, Arduino, scilab |                            | Feb 2019 – April 2019                                | yes                                      | yes               |
| Aptitude training                               |                            | 5/3/2019 to 15/3/2019                                | yes                                      | yes               |
| Fundamental of basic English grammar            |                            | 17/12/2018                                           | Yes                                      | Yes               |
| Angular and Node JS                             |                            | 11/06/2018                                           | Yes                                      | Yes               |
| IOT                                             |                            | 11/06/2018                                           | Yes                                      | Yes               |
| DBMS corporate training                         |                            | 02/07/2018                                           | Yes                                      | Yes               |
| Spoken Tutorial C and C++                       |                            | 13 <sup>th</sup> Feb – 24 <sup>th</sup> Apr 2019     | yes                                      | Yes               |
| Training Program “ InfyTQ ” by Infosys          |                            | 10 <sup>th</sup> Jun – 6 <sup>th</sup> Jul 2019      | yes                                      | Yes               |

## 1.2 Academic Flexibility

### 1.2.1 New Programmes/courses introduced during the Academic year

| Programme with code | Date of Introduction | Course With Code                                                   | Date of Introduction         |
|---------------------|----------------------|--------------------------------------------------------------------|------------------------------|
|                     |                      | BTHM303 Soft skill Development                                     | 2 <sup>nd</sup> july 2018    |
|                     |                      | BTCVS311 Seminar on topic of field visit to foundation work        | 2 <sup>nd</sup> july 2018    |
|                     |                      | BTID405 Product design Engineering                                 | 7 <sup>th</sup> January 2019 |
|                     |                      | BTMH3401 Basic Human Rights                                        | 7 <sup>th</sup> January 2019 |
|                     |                      | BTCVE404A Numerical Methods in Engineering                         | 7 <sup>th</sup> January 2019 |
|                     |                      | BTCVE404B Planning for sustainable development                     | 7 <sup>th</sup> January 2019 |
|                     |                      | BTHM 3401 Basic Human Rights                                       | 2 <sup>nd</sup> july 2018    |
|                     |                      | BTID405 Product Design Engineering                                 | 7 <sup>th</sup> January 2019 |
|                     |                      | BTHML411 Soft-Skill Development                                    | 7 <sup>th</sup> January 2019 |
|                     |                      | BTES211P Field Training/Internship/ Industrial training Evaluation | 2 <sup>nd</sup> july 2018    |
|                     |                      | BTHM3402 Interpersonal Communication Skill & Self Development      | 2 <sup>nd</sup> july 2018    |
|                     |                      | Basic Human Right (BTHM3401)                                       | 2 <sup>nd</sup> july 2018    |
|                     |                      | Python Programming (BTCOL306)                                      | 2 <sup>nd</sup> july 2018    |
|                     |                      | HTML and JavaScript (BTCOL307)                                     | 2 <sup>nd</sup> july 2018    |
|                     |                      | Field Training / internship / Industrial Training Evaluation       | 2 <sup>nd</sup> july 2018    |
|                     |                      | Product Design Engineering (BTID405)                               | 7 <sup>th</sup> January 2019 |
|                     |                      | Physics of Engineering Materials (BTBs405A)                        | 7 <sup>th</sup> January 2019 |
|                     |                      | Soft skills and                                                    | 7 <sup>th</sup> January 2019 |

|  |  |                                                                                                                                                                   |                              |
|--|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
|  |  | personality development (BTHM3402)                                                                                                                                |                              |
|  |  | Introduction to Data science with R programming (BTCOL408)                                                                                                        | 7 <sup>th</sup> January 2019 |
|  |  | Field Training/ Internship/ Industrial training evaluation (BTCOF411)                                                                                             | 7 <sup>th</sup> January 2019 |
|  |  | Field Training/ Internship/ Industrial training evaluation (BTES211P)                                                                                             | 2 <sup>nd</sup> july 2018    |
|  |  | BTITE305B Programming in Java                                                                                                                                     | 2 <sup>nd</sup> july 2018    |
|  |  | BTHM3401 Basic Human Rights                                                                                                                                       | 2 <sup>nd</sup> july 2018    |
|  |  | BTITL308 Programming Lab (Python)                                                                                                                                 | 2 <sup>nd</sup> july 2018    |
|  |  | BTITF310 Field Training / Internship/Industrial Training Evaluation                                                                                               | 2 <sup>nd</sup> july 2018    |
|  |  | BTITC404 Internetworking Protocols                                                                                                                                | 7 <sup>th</sup> January 2019 |
|  |  | BTID405 Product Design Engineering                                                                                                                                | 7 <sup>th</sup> January 2019 |
|  |  | BTITE406B Organizational Behavior                                                                                                                                 | 7 <sup>th</sup> January 2019 |
|  |  | BTITF410 Field Training / Internship/Industrial Training (minimum 4 weeks which can be completed partially in third semester and fourth semester or at one time.) | 7 <sup>th</sup> January 2019 |

**1.2.2 Programs in which Choice Based Credit System (CBCS)/elective course system has been implemented at the affiliated Colleges( If applicable)during the academic year**

| <b>Name of programs adopting CBCS/Elective course system</b> | <b>UG</b> | <b>PG</b> | <b>Date of implementation of CBCS/Elective course system</b> | <b>UG</b> | <b>PG</b> |
|--------------------------------------------------------------|-----------|-----------|--------------------------------------------------------------|-----------|-----------|
| Civil Engineering                                            | yes       | yes       | Academic year 2017-2018                                      | yes       | yes       |
| Computer science and Engineering                             | yes       | yes       | Academic year 2017-2018                                      | yes       | yes       |
| Electronics and Telecommunication Engg.                      | yes       | yes       | Academic year 2017-2018                                      | yes       | yes       |
| Information Technology                                       | yes       |           | Academic year 2017-2018                                      | yes       |           |
| Mechanical Engineering                                       | yes       | yes       | Academic year 2017-2018                                      | yes       | yes       |

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

|                        | <b>Certificate</b> | <b>Diploma courses</b> |
|------------------------|--------------------|------------------------|
| <b>No. of Students</b> | 952                | Nil                    |

**1.3 Curriculum Enrichment**

**1.3.1. Value-added courses imparting transferrable and life skills offered during the year**

| <b>Value-added courses</b>                                                                                                                                                                                                         | <b>Date of implementation</b> | <b>No of students enrolled</b> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------------------|
| Scilab for Civil                                                                                                                                                                                                                   | 26 <sup>th</sup> March 2019   | 13                             |
| GATE Coaching for ECT                                                                                                                                                                                                              | June 2018 – January 2019      | 27                             |
| Fundamentals of basic English Grammar                                                                                                                                                                                              | 17/12/2019 – 5/1/2019         | 85                             |
| SWAYAM online courses Latex, Arduino, scilab                                                                                                                                                                                       | Feb 2019 – April 2019         | 75                             |
| 1).Entrepreneurship awareness camp by MITCON consultancy and engg. Service ltd. Sponsored by National Science and Technology Entrepreneurship Development Board , Department of Science and Technology, Govt. of India, New Delhi. | 3/8/2018 to 5/8/2018          | 75                             |
| Aptitude and soft skill training                                                                                                                                                                                                   | 1/8/2018                      | 426 (all braches)              |

|                                      |                                                  |                       |
|--------------------------------------|--------------------------------------------------|-----------------------|
| GATE coaching for CSE & IT           | June 2018                                        | 31                    |
| Oracle Form training                 | 4/7/2019                                         | 30                    |
| Engineer the Engineers               | 26/1/2019                                        | 250 (FE all branches) |
| TCS interview training               | 22/9/2018                                        | 25 (all branches)     |
| Aptitude training                    | 27/4/2019                                        | 100 (all branches)    |
| Spoken Tutorial C and C++            | 13 <sup>th</sup> Feb – 24 <sup>th</sup> Apr 2019 | 55                    |
| Training Program “InfyTQ” by Infosys | 10 <sup>th</sup> Jun – 6 <sup>th</sup> Jul 2019  | 35                    |

### 1.3.2 Field projects / internships undertaken during the year

| Project/programme title                                                                            | No of students enrolled for Field projects / internships |
|----------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| Field training for Civil Engineering                                                               | 80                                                       |
| Automation By Prolific for ECT , Nagpur                                                            | 70                                                       |
| Summer Internship HAL Electronics and telecommunication                                            | 06                                                       |
| Summer Internship ISTC (IT,CSE,ECT)                                                                | 15                                                       |
| Summer Internship Infosys/ TCS (IT,CSE,ECT)                                                        | 34                                                       |
| Summer Internship Mechanical IGTR (Indo German Tool Room) Aurangabad                               | 62                                                       |
| Summer Internship HAL ( Hindustan Aeronautics Limited Aircraft Research & design Center ,Bangalore | 05                                                       |
| Summer Internship Mechanical Ujwal Enterprises (India) Pvt. Ltd , Nanded                           | 01                                                       |
| Field Training/ Internship/ Industrial training evaluation (CSE)                                   | 390                                                      |
| Field Training/ Internship/ Industrial training evaluation (IT)                                    | 100                                                      |

### 1.4 Feedback system

#### 1.4.1 Whether Structured Feedback Received from all the stakeholders.

| 1)Students | 2)Teachers | 3)Employers | 4)Alumni | 5)Parents |
|------------|------------|-------------|----------|-----------|
| Yes        | yes        | yes         | yes      | yes       |

#### **1.4.2 How the Feedback obtained is being analyzed and Utilized for overall development of the Institution?**

Feedback obtained from students includes their opinion about classroom teaching, Practical sessions, Library, store, office, HOD, Director and Infrastructure. Feedback is analyzed by respective class Teachers and brought in the notice of HOD. HOD will bring it to the notice of Director. Director will issue instructions to concerned individuals.

Feedback obtained from Teachers is analyzed by HOD which Contains the courses they are taking, content of the course, what should be included and what should be removed from the syllabus. HOD will suggest the BOS members and BOS chairman for revision of syllabus in the University.

Feedback is obtained from Alumni and analyzed by concern departmental Faculty and if any suggestions which can be implemented will be brought in the notice of HOD. HOD will suggest with the permission of Director about syllabus upgradation, lab development. etc. to the concerned authorities.

Feedback obtained from Parents is analyzed by faculty members of each department and they will bring the suggestions given by parents to the notice of the HOD. HOD will inform the Director for appropriate implementations of the suggestions.

## CRITERION II -TEACHING-LEARNING AND EVALUATION

### 2.1 Student Enrolment and Profile

#### 2.1.1 Demand Ratio during the year 2018-19

| Name of the Programme                   | Program Code | Sanctioned Intake | Number of applications received= Students Enrolled |
|-----------------------------------------|--------------|-------------------|----------------------------------------------------|
| <b>Undergraduate Courses (B. Tech.)</b> |              |                   | 2018-19                                            |
| Civil                                   | 212719110    | 60+03             | 53+02                                              |
| CSE                                     | 212724210    | 120+06            | 104+06                                             |
| ETC                                     | 212737210    | 120+06            | 34+06                                              |
| Mech.                                   | 212761210    | 60+03             | 45+02                                              |
| IT                                      | 212724610    | 60+03             | 43+03                                              |
| <b>UG Total</b>                         |              |                   | <b>279+9</b>                                       |
| <b>Postgraduate Courses (M. Tech.)</b>  |              |                   |                                                    |
| Civil-Structure                         | 212721210    | 18                | 10                                                 |
| CSE                                     | 212724210    | 18                | 00                                                 |
| CNIS                                    | 212790810    | 18                | 00                                                 |
| MPE                                     | 212761610    | 18                | 04                                                 |
| ETC                                     | 212737610    | 18                | 01                                                 |
| HP&TE                                   | 212790910    | 18                | 00                                                 |
| <b>PG Total</b>                         |              |                   | <b>15</b>                                          |

### 2.2 Catering to Student Diversity

#### 2.2.1. Student - Full time teacher ratio 2017-18

| Year    | Number of students enrolled in the institution (UG) |              |          |       | Number of students enrolled in the institution (PG) |              |          |       | Number of full time teachers available in the institution teaching only UG courses | Number of full time teachers available in the institution teaching only PG courses | Number of teachers teaching both UG and PG courses |
|---------|-----------------------------------------------------|--------------|----------|-------|-----------------------------------------------------|--------------|----------|-------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------|
|         | Regular                                             | Re-admission | Carry On | Total | Regular                                             | Re-admission | Carry On | Total |                                                                                    |                                                                                    |                                                    |
| 2018-19 | 1491                                                | 32           | 252      | 1775  | 31                                                  | ---          | 04       | 35    | 79                                                                                 | ---                                                                                | 8                                                  |

| <b>2.3 Teaching - Learning Process</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                 |                                                                                                                                                                                                                                                          |                                                         |                                                  |                                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>2.3.1 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. for 2018-19</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                 |                                                                                                                                                                                                                                                          |                                                         |                                                  |                                                                                                                                                             |
| Number Of teachers on roll                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Number of teachers using ICT (LMS, e-Resources) | ICT tools and resources available                                                                                                                                                                                                                        | Number of ICT enabled classrooms                        | Number of smart classrooms                       | E-resources and techniques used                                                                                                                             |
| 87                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 87                                              | Smart Class Rooms, Digital Library with on-line access to e-Journals (IEEE, Springer, Elsevier, ASME, ASCE, etc) CAS ERP for effective implementation of teaching learning and communication with students, Overhead Projectors, ICT enabled class rooms | 21 (Cybernet YX with Iris software for smart Classroom) | 15 Smart classrooms, 03 Seminar/Conference halls | e-books, e-resource facility for teachers and students Open source Courseware animations repository, Digital Library, NPTEL Lectures, Open Access Materials |
| <b>2.3.2 Students mentoring system available in the Institution?</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                 |                                                                                                                                                                                                                                                          |                                                         |                                                  |                                                                                                                                                             |
| <p>Mentoring system is being implemented effectively from long ago for first year as well as in every Department by assigning about 20 students for every faculty. Mentors not only continuously observe progress of mentees under them but also provide them required guidance. Career counseling is also being taken care of by mentors. The mentor's are helping the mentees to identify their own strengths, recognize their skills, abilities, and interests, and assist them in thinking and accomplishing short term and long-term goals, thus helping them enhance their abilities. Mentoring helps to boost students' morale and improve their learning abilities. Mentors also motivate students to take part in various curricular and co curricular activities. This has resulted in increased participation of students in various activities. Mentors also make the students aware of various career opportunities and encourage them for participation in the academic, sports and cultural activities. This has resulted in bringing out overall quality improvement.</p> <p>Apart from teacher as mentor our alumni is also assigned some of the students. A scheme known as 'Alumni Interaction as Mentor' (AIM) is being implemented effectively, that has enhanced interaction of students with alumni working in the Industry. Well organized network of mentor, alumni, class-teacher, Heads and Director is in place to take care of to and fro flow of information and actions.</p> <p>For academic and administrative functioning of the Institution various cells such as academic cell, examination cell, T &amp; P cell, disciplinary committee, student section in the office etc. are formed. Mentees are well informed and connected with all the cells through mentors.</p> <p>Mentor keeps close eye on mentees participation in the activities of professional associations of the students in the Department like Electronics Technocrats Association, Computer Engineers Student Association, Mechanical Engineering Students Association, Computer Users Club, and Information Technology Students Association.</p> |                                                 |                                                                                                                                                                                                                                                          |                                                         |                                                  |                                                                                                                                                             |

Assigning mentors to the students has helped a lot in improving the Institute's present endeavor towards academic excellence and quality up gradation in line with NAAC guidelines. It has immensely contributed in improving overall academic quality. The students are greatly benefitted by continuous support and guidance. Mentoring has created an informal bonding between the mentees, mentors and alumni.

**Some of the key responsibilities of mentors are:**

Mentors continuously monitor regularity and performance of students in various curricular and co curricular activities. If necessary, mentors contact and discuss performance of the students with their parents as and when necessary.

- Continuously motivate, guide and provide necessary counseling to the mentees in all academic related matters such as choice of electives, project, summer training etc.
- Continuously monitor academic performance of students and inform parents if necessary.
- Advise students in their career development/professional guidance.
- Keep contact with the students even after their graduation.
- Maintain a brief but clear record of all discussions with students.
- Keep the head of the Institute informed from time to time.
- Inform higher authorities and suggest if any administrative action is called for.
- Encourage students for participation in academic competitions/conferences/Seminars /Workshops.

The Institute has started allotting students to alumni as mentors. This activity 'Alumni Interaction as Mentor' (AIM) is functioning since 2016-17. Alumni are made available to the students for career guidance. This has helped a lot in connecting students with the Industry and makes them aware of recent trends going on. Mentoring has resulted in increased commitment and dedication of students towards their studies. Strengthening their bond and networking.

| Number of students enrolled in the Institution | Number of fulltime teachers | Mentor: Mentee Ratio |
|------------------------------------------------|-----------------------------|----------------------|
| 1491 Reg + 32 Re-adm + 252 Carryon=1775        | 87                          | 1:20.4               |

| 2.4 Teacher Profile and Quality                                                                                                                                                               |                                                                                                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| 2.4.1 Number of full time teachers appointed during the year 2017-18                                                                                                                          |                                                                                                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                           |
| No. of sanctioned positions                                                                                                                                                                   | No. of filled Positions                                                                           | Vacant positions | Positions filled during the current year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | No. of faculty with Ph.D. |
| 121                                                                                                                                                                                           | 87                                                                                                | 34               | NIL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 17                        |
| 2.4.2 Honors and recognitions received by teachers<br>(received awards, recognition, fellowships at State, National, International level from Government, recognized bodies during the year ) |                                                                                                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                           |
| Year Of award                                                                                                                                                                                 | Name of full time teachers receiving awards from state level, national level, international level | Designation      | Name of the award, fellowship, received from Government or recognized bodies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |
| 2018-19                                                                                                                                                                                       | Dr. Mrs. G. S. Lathkar                                                                            | Director         | Best Director award by Computer Society of India at IIT Bombay<br><br>Member Executive Council,<br>Dr. Babasaheb Ambedkar Technological University, Lonere.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                           |
| 2018-19                                                                                                                                                                                       | Dr. Mrs. G. S. Lathkar                                                                            | Director         | Savitribai Phule Award of Z.P. Nanded for Women Empowerment and Social Work on 23 Feb 2019.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                           |
| 2018-19                                                                                                                                                                                       | Dr. Mrs. A.M. Rajurkar                                                                            | CSE Dept         | <p>Best faculty of the year- Funded Research, CSI Mumbai, TECHNEXT INDIA 2018 held at IIT Bombay</p> <p>Fellow of Institution of Engineers Nomination of the Research and Recognition committee, Savitribai Phule University, Pune.</p> <p>Nomination of the Research and Recognition committee, Savitribai Phule University, Pune.</p> <p>Best paper awarded at International Conference on Intelligent Systems &amp; Information Management ICISIM-2017 held at JNEC, Aurangabad</p> <p>Reviewer, International Conference on Intelligent Systems &amp; Information Management ICISIM-2017 held at JNEC, Aurangabad</p> <p>Session Chair for International Conference on Recent Advances in Computing &amp; Applications (ICRACA-2017) at MITCOE, Pune</p> <p>Reviewer for International Conference on Recent Advances in Computing &amp; Applications (ICRACA-2017) at MITCOE, Pune.</p> |                           |

|         |                     |                                |                                                                                                                                                                                                                                                                                                                                                        |
|---------|---------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                     |                                | Keynote delivered on “Research Methodology” at International Conference on Recent Advances in Computing & Applications (ICRACA-2017) at MITCOE, Pune.                                                                                                                                                                                                  |
| 2018-19 | Dr. Mrs M. Y. Joshi | Associate Professor, CSE Dept. | Reviewer, IEEE & CSI Sponsored 1 <sup>st</sup> International Conference on Intelligent Systems and Information Management ICISIM, Oct 05-06, 2017, MGM’s JNEC, Aurangabad, India                                                                                                                                                                       |
|         |                     |                                | Reviewer, TPC( Technical Programming Committee) member for International Conference SSCC’17 held at Manipal<br><br>Reviewer, IET Information Theory<br><br>Life Member of Cryptographic Research Society of India (CRSI) membership no. L/906                                                                                                          |
| 2018-19 | Dr. D. V. Pattewar  | Professor, Civil Engg.         | Fellow, Institution of Engineers, India (M-127700-0)<br><br>Fellowship, Institution of Valuers, India (F-17668)<br><br>Life Member, The Indian Society for Technical Education (LM-9960)                                                                                                                                                               |
| 2018-19 | Dr. Arshad Hashmi   | Asso. Professor, Civil Engg.   | Assoc. Member, Institution of Engineers, India(AM-150206-3) Life Member, Indian Society of Earthquake Technology, Roorkee. (F-17668)<br><br>Life Member, The Indian Society for Technical Education (LM42427)<br><br>Reviewer, Earthquake Engineering and Engineering Vibration- Springer.<br><br>Reviewer, International Journal of Civil Engineering |

|         |                       |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------|-----------------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2018-19 | Dr. Mohd. Zameeruddin | Asst.Prof.,<br>Civil Engineering        | Member, Institution of engineers, India, (M-144779-8)<br><br>Life Member, Indian society of earthquake technology, Roorkee (LM-1603)<br><br>Life Member, The Indian society for technical education (LM-72934)<br><br>Member, Indian Geotechnical Society, Mumbai (LM-1207)<br><br>Reviewer, Advances in structural engineering, Sage publication<br><br>Reviewer, Earthquake Engineering and Engineering Vibration- Springer |
| 2018-19 | Dr. S. L. Kotgire     | Professor,<br>Electronics and Telecomm. | Reviewer, IDES                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2018-19 | Dr.M.G.Harkare        | Prof. Mechanical Engineering            | Member, Institution of engineers, India, (AM-81161/3)<br>Life Member,<br>The Indian society for technical Education (LM-9981)                                                                                                                                                                                                                                                                                                 |
| 2018-19 | Dr. Ms K. C. Jondhale | Prof. ECT Dept                          | ISTE Life Member No LM114035                                                                                                                                                                                                                                                                                                                                                                                                  |
| 2018-19 | Ms. Salve Amrapali    | Asst Prof ECT Dept                      | ISTE Life Member No LM114034<br>Member of Institute of Scholars InSe2019AF34                                                                                                                                                                                                                                                                                                                                                  |

## 2.5 Evaluation Process and Reforms

2.5.1 Number of days from the date of semester-end/ year- end examination till the declaration of results during the year 2017-18

| Programme Name                                | Program Code | Semester/ year | Last date of the last semester-end/ year- end examination | Date of declaration of results of semester-end/ year- end examination |
|-----------------------------------------------|--------------|----------------|-----------------------------------------------------------|-----------------------------------------------------------------------|
| B.E. (CSE, IT, Civil, ECT, Mech)              | BE           | 2018-19        | 12/06/2018                                                | 03/07/2019                                                            |
| T.E. (CSE, IT, Civil, ECT, Mech)              | TE           | 2018-19        | 9/06/2018                                                 | 19/07/2019                                                            |
| S.Y B.Tech DBATU. (CSE, IT, Civil, ECT, Mech) | SY           | 2018-19        | 09/06/2018                                                | 08/08/2018                                                            |
| F.Y. B. TECH DBATU                            | FY           | 2018-19        | 05/06/2018                                                | 20/07/2018                                                            |

### 2.5.2 Reforms initiated on Continuous Internal Evaluation (CIE) system at the institutional level

- For assessing performance of the students and Continuous Internal Evaluation (CIE) is carried out throughout the semester. Continuous Internal Evaluation is carried out with the help of assignments, internal tests, mid-semester examination, and assessment during weekly practical, Seminar preparation and presentation. Mini and major project work, and end semester examination. These various kinds of assessment methods for assessing the program outcomes help in developing outcome based, effective and student centric, teaching learning mechanism. This year the total internal assessment process is designed to get it correlated with attainment of Program Outcomes, Program Specific Outcomes and Course Outcomes. We at the institute level prepare and follow academic calendar that is framed as per guidelines provided by AICTE, DTE, and Affiliating University. Some of the reforms are as mentioned below:
- Conducting additional periodic tests.
- Preparation of evaluation plan before start of the semester.
- Periodic assignments and its evaluation.
- Guiding students based on their performance.
- To bring in the transparency in the process of evaluation of assignments and , the test papers those are given back to the students and their queries are resolved by the concerned teacher in a special class room session
- For smooth and uniform evaluation process the Institute has general Examination Coordinator for examination cell supported by a Coordinator from each department for smooth, transparent and fair conduction of internal examinations.
- Time bound evaluation and declaration of results is planned and executed by the examination cell. Staff meetings are conducted periodically to review the evaluation process.
- Any queries about the same could be discussed with the concerned teachers.

### 2.5.3 Academic calendar prepared and adhered for conduct of Examination and other related matters

For smooth and effective implementation of teaching learning process, organizing various activities, conducting Examinations, every semester we prepare the academic calendar in advance and in concurrence with the academic calendar of the affiliating University.

A committee, comprising of Director, HODs, senior faculty and administrative officer prepares and monitors academic calendar taking into consideration various sports, cultural, and co-curricular activities. Thus the teaching schedule is carried out smoothly also various internal examinations, semester examination dates are planned in advance and conducted without hassle. This helps students plan their other activities like seminars, project work, training, etc.

The committee continuously monitors the academic calendar vigilantly. The dates for conduction, evaluation and declaration of examination results are strictly observed adhering to the academic calendar. Academic calendar provides total number of working days scheduled in a semester in advance and in accordance with the time table prepared conduction is monitored against the scheduled. Every department maintains daily conduction report and syllabus completion reports. Every teaching faculty maintains individual course files covering all the activities for the semester. Teaching faculty going on leave invariably makes the alternative arrangement so the students are not put to a loss for their learning hours. Later the faculty compensates for his own lectures or practical lost because of his leaves.

For CIE we organize two internal examinations in a semester, mid semester and end semester examinations are strictly in accordance with academic calendar. Schedule for display of assignments, examination dates, declaration of results, submission program, parent teacher meet, etc. are all displayed before the semester actually starts and conducted as per academic calendar.

## 2.6 Student Performance and Learning Outcomes

2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution

<http://www.mqmcen.ac.in/>

2.6.2 Pass percentage of students (2018-19- Batch)

| Programme Code | Programme name         | Number of students appeared in the final year examination | Number of students passed in final semester/year examination | Pass Percentage |
|----------------|------------------------|-----------------------------------------------------------|--------------------------------------------------------------|-----------------|
| 212719110      | Civil Engineering      | 86                                                        | 76                                                           | 88.37%          |
| 212761210      | Mechanical Engg.       | 57                                                        | 45                                                           | 78.95%          |
| 212737210      | Electronics & Telecom  | 94                                                        | 64                                                           | 68.09%          |
| 212724610      | Information Technology | 68                                                        | 54                                                           | 79.41%          |
| 212724210      | Computer Sci. & Engg.  | 137                                                       | 121                                                          | 88.32%          |

## 2.7 Student Satisfaction Survey

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

<https://docs.google.com/forms/d/1DB7g7aydBVo1kB1yITL8XvhAOkTlv81cO5KI9G-YRw/edit#responses>

**CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION****3.1 Resource Mobilization for Research**

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

| Nature of the Project                                             | Duration  | Name of the funding Agency | Total grant sanctioned | Amount received during the Academic year |
|-------------------------------------------------------------------|-----------|----------------------------|------------------------|------------------------------------------|
| Major projects                                                    | 2014-2018 | BARC                       | Rs.2500000/-           | Rs. 4,20,325/-                           |
| Minor Projects                                                    | -         | -                          | -                      | -                                        |
| Interdisciplinary Projects                                        | -         | -                          | -                      | -                                        |
| Industry sponsored Projects                                       | -         | -                          | -                      | -                                        |
| Projects sponsored by the University/ College                     | -         | -                          | -                      | -                                        |
| Students Research Projects (other than compulsory by the College) | -         | -                          | -                      | -                                        |
| International Projects                                            | -         | -                          | -                      | -                                        |
| Any other(Specify)                                                | -         | -                          | -                      | -                                        |
| Total                                                             | Nil       | Nil                        | Nil                    | Nil                                      |

**3.2 Innovation Ecosystem**

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

| Title of Workshop/Seminar                                                                          | Name of the Dept.              | Date(s) (dd/mm/yy)       |
|----------------------------------------------------------------------------------------------------|--------------------------------|--------------------------|
| Seismic Design Workshop under Utkraanti National Level Championship, IITB, Mumbai                  | Civil Engineering              | 14/10/2019 to 15/10/2019 |
| Civil Survey using Total Station organized by IGTR, Aurangabad                                     | Civil Engineering              | 11/10/2019 to 12/10/2019 |
| One Day Seminar on Sustainable Development and Rain Water harvestment                              | Civil Engineering              | 13/04/2018               |
| Under-Graduate Fellowship opportunities                                                            | Computer Science & Engineering | 20/03/2019               |
| Two-week workshop on Oracle Forms and Reports by Mr. Sameer Dehadrai                               | Computer Science & Engineering | 4/02/2019 to 19/02/2019  |
| 5 Days Faculty Development Program on “Data Science using R” Sponsored by TEQIP-III, DBATU, Lonere | Computer Science & Engineering | 7/01/2019 to 11/01/2019  |
| Two-week workshop on DBMS by Mr. Sameer Dehadrai.                                                  | Computer Science & Engineering | 2/08/2018 to 16/08/2018  |

|                                                                                                                                                         |                                |                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------------|
| Aptitude and Soft Skills Training by Universal Education, Bangalore.                                                                                    | Computer Science & Engineering | 2/08/2018 to 4/08/2018 |
| Expert Lecture by Mr. Mukesh Jain, Adjunct Faculty On "Latest Trends in the Technology".                                                                | Computer Science & Engineering | 14/07/2018             |
| Python Workshop                                                                                                                                         | Computer Science & Engineering | 22/06/2019             |
| Seminar on Awareness Talk regarding recruitment in Indian Navy by Captain J.K. Choudhari, Indian Navy at SGGSIET, Nanded under University entry scheme. | Mechanical Engineering         | 19/07/2018             |
| Seminar on Job Opportunity in CAD-CAM by CAD-CAM Guru, Pune                                                                                             | Mechanical Engineering         | 07/08/2018             |
| Seminar on Entrepreneurship – An art by itself by M.V. Shivprasad Jaju                                                                                  | Mechanical Engineering         | 16/08/2018             |
| Seminar on opportunities in Indian Airforce by Captain Shrikant Walwadikar                                                                              | Mechanical Engineering         | 13/10/2018             |
| Seminar on Fluent in English Language By Prof. Anthony Thomas Pune.                                                                                     | Mechanical Engineering         | 16/11/2018             |
| Seminar on Design and Development of Light than air system making Balloons fly and float By Prof. Rajkumar S.Pant IIT Bombay                            | Mechanical Engineering         | 1/02/2019              |
| Seminar on Evolution in Race car design By Mr. Anand Thakar from CADCAM GURU, Pune                                                                      | Mechanical Engineering         | 5/02/2019              |
| Seminar on PIPE Design Engg by Mr. Rohit Deshmukh                                                                                                       | Mechanical Engineering         | 27/02/2019             |
| Aptitude Training by Mr. Dheeraj Kumar from Pehala Job. Com                                                                                             | Mechanical Engineering         | 05/03/2019             |
| Seminar on What every Engineering students should know                                                                                                  | Mechanical Engineering         | 10/4/2019              |

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

| Title of the innovation      | Name of the Awardees      | Awarding Agency | Date of Award | Category                                          |
|------------------------------|---------------------------|-----------------|---------------|---------------------------------------------------|
| Best Personality of the Year | Dr. Mrs. Geeta S. Lathkar | REGUERDON INC   | 20/07/2018    | Singular Dedication and achievement in Profession |
|                              |                           |                 |               |                                                   |

|                                                                |                                                                                                                                                                                                               |                                                                                                          |            |                                                                                                         |
|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------------------|
| Best Principal Women-Engineering                               | Dr. Mrs. Geeta S. Lathkar                                                                                                                                                                                     | ISTE Maharashtra-Goa section                                                                             | 20/12/2018 | Best Principal Women-Engineering                                                                        |
| Adarsh Vidya Saraswati Rastriya Pusraskar                      | Dr. Ms. K. C. Jondhale                                                                                                                                                                                        | Global Management Council Ahmadabad                                                                      | 2018       | Research                                                                                                |
| Research Excellence Award 2019                                 | Dr. Ms. K. C. Jondhale                                                                                                                                                                                        | An ISO:9001:2015 Certified Institution by International Accurate Certification, Accredited by UASL(InSc) | 2019       | Research                                                                                                |
| Best Teacher Award 2019                                        | Ms. Salve Amrapali Kishanrao                                                                                                                                                                                  | An ISO:9001:2015 Certified Institution by International Accurate Certification, Accredited by UASL(InSc) | 2019       | Research                                                                                                |
| Winner at Smart India Hackathon, (SIH) 2019 (Software Edition) | <b>Name of Team Members</b><br>(ARCANA)<br>Dhanashree Kulkarni(BE CSE)<br>Pratiksha walbe,Shivani Vaidya,Omkar Deshpande(TECSE)<br>Jayaesh Ukhalkar (SYCSE)Sangmesh Somawar(Aluminus)<br>Rahul Bisen(Faculty) | AICTE, MHRD                                                                                              | March 2019 | A National level competition held on 2nd - 3 rd March at Sathyabama University, Kanchipuram, Tamil Nadu |
| Eighth Rank in AIRC 19                                         | Kartiki Shinde, Minal Kaminwar, Rupali Bhange, Chandana Motiwar, Shraddha undada(TECSE)                                                                                                                       | IIT Bombay, Mumbai                                                                                       | April 2019 | All India Research Championship (AIRC) , organized by TechNext, IIT Bombay, Mumbai                      |

### 3.2.3 No. of Incubation centre created, start-ups incubated on campus during the year

|                      |                      |
|----------------------|----------------------|
| Incubation Centre    | Sponsored by         |
| Nil                  | <b>Nil</b>           |
| Name of the Start-up | Date of commencement |
| <b>Nil</b>           | <b>Nil</b>           |
|                      |                      |
|                      |                      |

| 3.3 Research Publications and Awards                                                       |                                             |                                                                                                                                                        |                                                                  |                                |
|--------------------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------|
| 3.3.1 Incentive to the teachers who receive recognition/awards                             |                                             |                                                                                                                                                        |                                                                  |                                |
| Awards                                                                                     |                                             |                                                                                                                                                        |                                                                  |                                |
| Sr. No.                                                                                    | Name of the Awardees                        | Name of the Award                                                                                                                                      | Name of the Awarding Agency                                      | State/ National/ International |
| 1                                                                                          | Dr. Mrs. G. S. Lathkar                      | Best Personality of the Year                                                                                                                           | REGUERDON INC                                                    | National                       |
| 2                                                                                          | Dr. Mrs. G. S. Lathkar                      | Best Principal Women-Engineering                                                                                                                       | ISTE Maharashtra-Goa section                                     | National                       |
| Recognitions                                                                               |                                             |                                                                                                                                                        |                                                                  |                                |
| 3                                                                                          | Dr. Mrs. G. S. Lathkar                      | Member of Executive Council                                                                                                                            | Dr. Babasaheb Ambedkar Technological University, Lonere.         | State                          |
| 4                                                                                          | Dr. Mrs. A.M. Rajurkar                      | Fellow                                                                                                                                                 | Institution of Engineers India                                   | National                       |
| 5                                                                                          | Dr. Mrs. A.M. Rajurkar                      | Session Chair                                                                                                                                          | ICCET 2019, Devgiri College of Engineering, Aurangabad, Jan 2019 | International                  |
| 6                                                                                          | Dr. Mrs. A.M. Rajurkar                      | Reviewer                                                                                                                                               | ICCET 2019, Devgiri College of Engineering, Aurangabad, Jan 2019 | International                  |
| 3.3.2 Ph. Ds awarded during the year ( <i>applicable for PG College, Research Center</i> ) |                                             |                                                                                                                                                        |                                                                  |                                |
| Name of the Department                                                                     |                                             | No. of Ph. Ds Awarded (01)                                                                                                                             |                                                                  |                                |
| Mechanical                                                                                 |                                             | 01. Mr. Patare Prasad M.<br>“Tribological Performance Analysis of Polymer Composite Bearing Materials” under the guidance of Dr. Mrs. Geeta S. Lathkar |                                                                  |                                |
| 3.3.3 Research Publications in the Journals notified on UGC website during the year        |                                             |                                                                                                                                                        |                                                                  |                                |
|                                                                                            | Department                                  | No. of Publication                                                                                                                                     | Average Impact Factor, if any                                    |                                |
| National                                                                                   | Civil Engineering                           | 02                                                                                                                                                     | -                                                                |                                |
| Internati onal                                                                             | Civil Engineering                           | 01                                                                                                                                                     | -                                                                |                                |
| Internati onal                                                                             | Computer Science& Engineering               | 02                                                                                                                                                     | -                                                                |                                |
| Internati onal                                                                             | Electronics &Telecomm unication Engineering | 04                                                                                                                                                     | -                                                                |                                |
|                                                                                            |                                             |                                                                                                                                                        |                                                                  |                                |

|               |                                      |    |      |
|---------------|--------------------------------------|----|------|
| International | Department of Information Technology | 04 | 5.87 |
| International | Mechanical Engineering               | 04 | -    |

**Total =17**

3.3.4 Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

| Department                                  | No. of publications |
|---------------------------------------------|---------------------|
| Civil Engineering                           | 01                  |
| Electronics & Telecommunication Engineering | 05                  |
| Computer Science & Engineering              | 03                  |
| Mechanical Engineering                      | 00                  |
| Information Technology                      | 00                  |

**Total =09**

3.3.5 Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or Pub Med/ Indian Citation Index

| Title of the paper                                                                                                    | Name of the author                      | Title of the journal                                                     | Year of publication | Citation Index | Institutional affiliation as mentioned in the publication | Number of citations excluding self citations |
|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------|---------------------|----------------|-----------------------------------------------------------|----------------------------------------------|
| Design of Epoxy Based Resin Composites for Automotive Applications: A Case Study on I C Engine valve guide            | J.S.Sidhu, G.S.Lathkar, S.B.Sharma      | Institution of Engineers, Series C,                                      | 2018                | -              | MGMs College of Engineering, Nanded                       |                                              |
| Optimization of Glass fiber and MoS <sub>2</sub> Filled PTFE Composites Using Non Traditional Optimization Techniques | Prasad M. Patare, G.S. Lathkar          | IMME17, Science Direct, Material Today, Proceedings 5, 7210-7319         | 2018                |                | MGMs College of Engineering, Nanded                       |                                              |
| A study of tribo-characteristics of deep drawing oils                                                                 | Bachchhav B.D., Lathkar G.S., Bagchi H. | Journal of Manufacturing Engineering, Vol. 6, Issue : 3 ISSN : 0973-6867 | 2018                |                | MGMs College of Engineering, Nanded                       |                                              |
|                                                                                                                       |                                         |                                                                          |                     |                |                                                           |                                              |

|                                                                                                                             |                                  |                                                                                 |             |     |                                       |     |
|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------------------------------------------|-------------|-----|---------------------------------------|-----|
| Comparative Analysis for Hard Turning of Cryogenically treated and Non-treated EN9 Work pieces by using TNMG 160408 Inserts | Kazi Razaul Aarefeen, N.A. Kadam | SSRG International Journal of Mechanical Engg.                                  | 2018        |     | MGMs College of Engineering, Nanded   |     |
| Development of Analysis Curves for RC Beam Sections Based on Simple Approach of Mechanics                                   | Dr Arshad K. Hashmi              | Indian Concrete Journal                                                         | 2018        | -   | MGMs College of Engineering, Nanded   | -   |
| Efficient Preliminary Seismic Design of Reinforced Concrete Structures using Vulnerability Indices                          | Dr. Arshad K. Hashmi             | Indian Concrete Journal                                                         | 2018        | -   | MGMs College of Engineering, Nanded   | -   |
| Performance-based Seismic Evaluation of Medium Rise 3D Frame                                                                | Dr. Mohd. Zameeruddin            | Journal of Emerging Technologies and Innovative Research                        | 2018        | -   | MGMs College of Engineering, Nanded   | -   |
| Classification of leaf diseases using texture feature and KNN classifier                                                    | Manisha A. Manjramkar            | International Journal of Research and Analytical Reviews (IJRAR)                | August-2018 | Nil | MGM's College of Engineering, Nanded. | Nil |
| A literature survey: A new fusion model for classification of the lung diseases using Genetic algorithm                     | Manisha A. Manjramkar            | International Journal of Emerging Technologies and Innovative Research (JETIR), | August 2018 | Nil | MGM's College of Engineering, Nanded. | Nil |
| Detection and Reconstruction of Line Scratches in Old Motion Picture                                                        | Mukkawar V. V.                   | International Journal of Emerging Technologies and Innovative Research (JETIR)  | Dec. 2018   | Nil | MGM's College of Engineering, Nanded. | Nil |
| Face Recognition Using Oriented Local Histogram Equalization                                                                | Wadje J D                        | International Journal of Emerging Technologies and Innovative                   | Dec. 2018   | Nil | MGM's College of Engineering, Nanded. | Nil |

|                                                                                              |                                                         |                                                                                                                                                        |      |  |                                                |                                                                           |
|----------------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------|--|------------------------------------------------|---------------------------------------------------------------------------|
|                                                                                              |                                                         | Research<br>(JETIR)                                                                                                                                    |      |  |                                                |                                                                           |
| An improved diagnosis technique for breast cancer using LCFS and TreeHiCARE classifier model | Nagthane<br>,<br>D., Rajurkar,<br>A. M.                 | <i>Sensor Review</i> ,<br>Vol. 39 No. 1,<br>pp. 107- 120.                                                                                              | 2019 |  | MGM's<br>College of<br>Engineering,<br>Nanded. |                                                                           |
| Analysis on Logical Key Hierarchy and Variants for Secure Group Communication                | Pande<br>A.S.,<br>Joshi Y.,<br>Joshi<br>M.Y.            | Computing,<br>Communication<br>and Signal<br>Processing.<br>Advances in<br>Intelligent<br>Systems and<br>Computing, vol<br>810. Springer,<br>Singapore | 2018 |  | MGM's<br>College of<br>Engineering,<br>Nanded. |                                                                           |
| A hybrid approach for classification of rare class data                                      | Wankhade, K.K.,<br>Jondhale,<br>K.C. &<br>Thool,<br>V.R | Knowledge and<br>Information<br>Systems An<br>International<br>Journal<br><b>Springer<br/>London</b>                                                   | 2018 |  | MGM's<br>College of<br>Engineering,<br>Nanded. | A hybrid<br>approach<br>for<br>classification of<br>rare<br>class<br>data |
| Hand Written Character Recognition                                                           | Dr.Ms.<br>Jondhale<br>K.C. Ms.<br>Vibhute<br>A.P.       | International<br>Journal of<br>Computer<br>Engineering and<br>Applications, vol<br>12, 2018                                                            | 2018 |  | MGM's<br>College of<br>Engineering,<br>Nanded. | Hand<br>Written<br>Character<br>Recognition                               |
| An ensemble clustering method for intrusion detection                                        | Kapil K<br>Wankhade,<br>Kalpana<br>C<br>Jondhale        | International<br>Journal of<br>Intelligent<br>Engineering<br>Informatics, volume 7, Issue 2, pages 112-140, Publisher: Inderscience Publishers (IEL)   | 2019 |  | MGM's<br>College of<br>Engineering,<br>Nanded. |                                                                           |
|                                                                                              |                                                         |                                                                                                                                                        |      |  |                                                |                                                                           |
|                                                                                              |                                                         |                                                                                                                                                        |      |  |                                                |                                                                           |

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

**based on Scopus data**

| Title of the paper                                                                                                    | Name of the author                               | Title of the journal                                      | Year of publication | h-index | Number of citations excluding self citations | Institutional affiliation as mentioned in the publication |
|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------|---------------------|---------|----------------------------------------------|-----------------------------------------------------------|
| Optimization of Glass fiber and MoS <sub>2</sub> Filled PTFE Composites Using Non Traditional Optimization Techniques | Patare, P.M.,<br>Lathkar, G.S.                   | Materials Today: Proceedings                              | 2018                | 3       | 4                                            | MGM's College of Engineering, Nanded.                     |
| Design of Epoxy based Resin Composites for Automotive Applications: A Case Study on IC Engine Valve Guide             | Sidhu, J.S.,<br>Lathkar, G.S.                    | Journal of The Institution of Engineers (India): Series C | 2019                | 3       | 0                                            | MGM's College of Engineering, Nanded.                     |
| A hybrid approach for classification of rare class data                                                               | Wankhade K.K.,<br>Jondhale, K.C.,<br>Thool, V.R. | Knowledge and Information Systems                         | 2018                | 4       | 0                                            | MGM's College of Engineering, Nanded.                     |
| An improved diagnosis technique for breast cancer using LCFS and TreeHiCARE classifier model                          | Nagthane, D.K.,<br>Rajurkar, A.M.                | Sensor Review                                             | 2019                | 3       | 0                                            | MGM's College of Engineering, Nanded.                     |
| Analysis on logical key hierarchy and variants for secure group communication                                         | Pande, A.S.,<br>Joshi, Y.V.<br>Joshi, M.Y.       | Advances in Intelligent Systems and Computing             | 2018                | 3       | 1                                            | MGM's College of Engineering, Nanded.                     |

|                                                                                                                                                                                                             |                                               |                                                 |                                                    |                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------------------------------|----------------------------------------------------|
| 3.3.7 Faculty participation in Seminars/Conferences and Symposia during the year :                                                                                                                          |                                               |                                                 |                                                    |                                                    |
| No. of Faculty                                                                                                                                                                                              | International level                           | National level                                  | State level                                        | Local level                                        |
| Attended Seminars/ Workshops                                                                                                                                                                                | 06(Conferences)                               | 44(workshops)                                   | 3(workshops)                                       |                                                    |
| Presented papers                                                                                                                                                                                            | 04                                            | 01                                              |                                                    |                                                    |
| Resource Persons                                                                                                                                                                                            |                                               |                                                 |                                                    | 1                                                  |
|                                                                                                                                                                                                             |                                               |                                                 |                                                    |                                                    |
| 3.4 Extension Activities                                                                                                                                                                                    |                                               |                                                 |                                                    |                                                    |
| 3.4.1 Number of extension and outreach programs conducted in collaboration with industry, community and Non- Government Organizations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year |                                               |                                                 |                                                    |                                                    |
| Title of the Activities                                                                                                                                                                                     | Organizing unit/ agency/ collaborating agency | Number of teachers co-ordinated such activities | Number of students participated in such activities |                                                    |
| Nirmalaya Sankalan Programme                                                                                                                                                                                | Nanded-Waghala City Municipal Corporation     | 01                                              | 5                                                  |                                                    |
| Blood Donation Camp                                                                                                                                                                                         | MGM’S College of Engineering                  | 01                                              | 156                                                |                                                    |
| National Cadets Corps(NCC)                                                                                                                                                                                  | MGM’S College of Engineering                  | 01                                              | 36                                                 |                                                    |
|                                                                                                                                                                                                             |                                               |                                                 |                                                    |                                                    |
| 3.4.2 Awards and recognition received for extension activities from Government and other recognized bodies during the year                                                                                  |                                               |                                                 |                                                    |                                                    |
| Name of the Activity                                                                                                                                                                                        | Award/recognition                             |                                                 | Awarding bodies                                    | No. of Students benefited                          |
| Social Work- Women Empowerment                                                                                                                                                                              | Savitiribai Phule Award Dated 23 Feb 2019     |                                                 | Z.P. Nanded                                        | All female Students                                |
|                                                                                                                                                                                                             |                                               |                                                 |                                                    |                                                    |
| 3.4.3 Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year   |                                               |                                                 |                                                    |                                                    |
| Name of the scheme                                                                                                                                                                                          | Organising unit/ agency/ collaborating agency | Name of the activity                            | Number of teachers coordinated such activities     | Number of students participated in such activities |
| Unnaat Bharat Abhiyaan                                                                                                                                                                                      | Ministry of Human Resource development        | Unnaat Bharat Abhiyaan                          | 02                                                 | 11                                                 |
| Unnat Bharat Abhiyan                                                                                                                                                                                        | Collector Office Nanded                       | Household Survey and Village Survey             | 01                                                 | 14                                                 |
| Swachh Bharat Abhiyan                                                                                                                                                                                       | MGM’S College of Engineering                  | Campus Cleaning                                 | 01                                                 | 336                                                |
|                                                                                                                                                                                                             |                                               |                                                 |                                                    |                                                    |
|                                                                                                                                                                                                             |                                               |                                                 |                                                    |                                                    |

| 3.5 Collaborations                                                                                                                                 |                                                   |                                                                                                                                                                                                               |                                                          |                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------|
| 3.5.1 Number of Collaborative activities for research, faculty exchange, student exchange during the year                                          |                                                   |                                                                                                                                                                                                               |                                                          |                                               |
| Nature of Activity                                                                                                                                 |                                                   | Participant                                                                                                                                                                                                   | Source of financial support                              | Duration                                      |
| Christiani International Training Program 2019, Germany                                                                                            |                                                   | 04 Faculties                                                                                                                                                                                                  | MGM’s College of Engineering, Nanded                     | 11/06/2019 to 25/06/ 2019                     |
| Faculty/Student Exchange                                                                                                                           |                                                   | 04 Faculties                                                                                                                                                                                                  | MGM’s College of Engineering, Nanded                     | 6/02/2019 to 11/02/ 2019                      |
| Research work                                                                                                                                      |                                                   | 02 Faculties                                                                                                                                                                                                  | MGM’s College of Engineering, Nanded                     | 11/06/2019 to 25/06 2019                      |
| Industrial Visit at TCS, Bangalore                                                                                                                 |                                                   | 99 Students & 3 Faculties                                                                                                                                                                                     | Partially by College                                     | 14/02/2019 to 19/02/2019                      |
| Industrial Visit at Infosys, Mysore                                                                                                                |                                                   | 94 Students & 5 Faculties                                                                                                                                                                                     | Partially by College                                     | 12/06/2019 to 18/06/2019                      |
|                                                                                                                                                    |                                                   |                                                                                                                                                                                                               |                                                          |                                               |
| 3.5.2 Linkages with institutions/industries for internship, on-the-job training, project work, sharing of research facilities etc. during the year |                                                   |                                                                                                                                                                                                               |                                                          |                                               |
| Nature of linkage                                                                                                                                  | Title of the linkage                              | Name of the partnering institution/ industry /research lab with contact details                                                                                                                               | Duration (From-To)                                       | participant                                   |
| Faculty Training                                                                                                                                   | Faculty Training                                  | Accurate Gauging Ltd. Pune & MGM’s College of Engineering, Nanded                                                                                                                                             | 27 <sup>th</sup> to 29 <sup>th</sup> June 2018           | 12 Faculty                                    |
| Internshi p                                                                                                                                        | Implant Training                                  | & HAL, Bangalore & MGM’s College of Engineering, Nanded                                                                                                                                                       | 1 <sup>st</sup> to 25 <sup>th</sup> Aug 2018             | 05 Students                                   |
| Internshi p                                                                                                                                        | Implant Training                                  | Hindustan Aeronautics Limited (HAL)                                                                                                                                                                           | 1 <sup>st</sup> to 13 <sup>th</sup> July 2019            | 05 Students                                   |
| Student Training                                                                                                                                   | Entrepren eurship Awareness Camp                  | MGM’s College of Engineering, Nanded & MITCON Consultancy & Engg. Services Ltd. sponsored by National Science & Technology Entrepreneurship Development Board, Dept. of Science & Technology, Govt. of India. | 3 <sup>rd</sup> to 05 <sup>th</sup> Aug 2018             | 75 Students (Entrepreneurship Awareness Camp) |
| Faculty Training                                                                                                                                   | Faculty Developm ent Program in Entrepren eurship | MGM’s College of Engineering, Nanded & MITCON Consultancy & Engg. Services Ltd. sponsored by National Science & Technology Entrepreneurship Development Board, Dept. of Science &                             | 27 <sup>th</sup> Sept. 2018 to 3 <sup>rd</sup> Oct. 2018 | 25 Faculties                                  |

|                       |                                |                                                     |                                                        |              |
|-----------------------|--------------------------------|-----------------------------------------------------|--------------------------------------------------------|--------------|
|                       |                                | Technology, Govt. of India.                         |                                                        |              |
| Student Training      | Aptitude & Soft skill Training | MGM's College of Engineering, Nanded & Pehlajob.com | 5 <sup>th</sup> to 15 <sup>th</sup> March 2019         | 39 Students  |
| Student Training      | Student Training               | Ujwal Auto Ltd. Nanded                              | 24 <sup>th</sup> Dec 2018 to 15 <sup>th</sup> Jan 2019 | 02 students  |
| Faculty Training      | Faculty Training               | DBATU, Lonere                                       | 7 <sup>th</sup> to 11 <sup>th</sup> Jan. 2019          | 3 Faculties  |
| Student Training      | Student Training               | IIT Bombay                                          | 13 Feb. to 24 April 2019                               | 115 Students |
| Student Training      | Student Training               | Swayam IIT Kharagpur                                | 28 Jan. to 21 April 2019                               | 48 Students  |
| Industrial Internship | Implant Training               | Sankey Solutions Pvt. Ltd. Mumbai                   | 13 <sup>th</sup> June to 6 <sup>th</sup> July 2019     | 8 Students   |
| Industrial Internship | Implant Training               | BPCL, Mumbai                                        | 13 <sup>th</sup> June to 6 <sup>th</sup> July 2019     | 1 Student    |
| Industrial Internship | Implant Training               | Ultra skills IT solutions Pvt. Ltd. Pune            | 13 <sup>th</sup> June to 6 <sup>th</sup> July 2019     | 10 Students  |
| Industrial Internship | Implant Training               | Vishwa Technologies, Karad                          | 13 <sup>th</sup> June to 6 <sup>th</sup> July 2019     | 1 Student    |
| Industrial Internship | Implant Training               | Sigma Soft Solutions Pvt. Ltd. Pune                 | 13 <sup>th</sup> June to 6 <sup>th</sup> July 2019     | 1 Student    |
| Industrial Internship | Implant Training               | BSNL Shillong                                       | 13 <sup>th</sup> June to 6 <sup>th</sup> July 2019     | 1 Student    |

3.5.3 MoU's signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

| Organisation                                   | Date of MoU signed | Purpose and Activities                                                       | Number of students/teachers participated under MoU's                 |
|------------------------------------------------|--------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------|
| IGTR, Aurangabad                               | 15/06/2018         | Training & Internship                                                        | 62-students<br>(from 11 <sup>th</sup> to 23 <sup>rd</sup> June 2018) |
| Pawan Groups of Industries, Aurangabad         |                    | Industrial visit and Training                                                |                                                                      |
| Kalinga University, Naya Raipur, Chattisgarh   | 22/08/2019         | Research and Development Activity                                            | All Departments                                                      |
| Institute of Satellite Telecom Pvt. LTD., Pune | 12/07/2018         | To enhance the technical Knowledge & develop the skills in satellite telecom | 100                                                                  |

|                                                     |            |                                                                         |              |
|-----------------------------------------------------|------------|-------------------------------------------------------------------------|--------------|
|                                                     |            | network.                                                                |              |
| Thinkcell Learning solutions Pvt. Ltd. Secunderabad | 31/08/2018 | 200 hours of classroom sessions covering the complete syllabus of GATE. | 27           |
| IIT Bombay                                          | 30/09/2018 | Student Training                                                        | 17 students  |
| GATEFORUM, Hyderabad                                | 11/06/2018 | GATE Coaching                                                           | 40 students  |
| Sankey Solutions, Mumbai                            | April 2019 | Internship and Recruitment                                              | 13 students  |
| Cocubes.com                                         | 18/06/2018 | Assessment Recruitment                                                  | 100 students |

| CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES                                              |  |                                           |                                                |                     |             |                    |        |
|---------------------------------------------------------------------------------------------------|--|-------------------------------------------|------------------------------------------------|---------------------|-------------|--------------------|--------|
| 4.1 Physical Facilities                                                                           |  |                                           |                                                |                     |             |                    |        |
| 4.1.1 Budget allocation, excluding salary for infrastructure augmentation during the year-2018-19 |  |                                           |                                                |                     |             |                    |        |
| Budget allocated for infrastructure augmentation                                                  |  |                                           | Budget utilized for infrastructure development |                     |             |                    |        |
| 170 lakhs                                                                                         |  |                                           | 161.76 lakhs                                   |                     |             |                    |        |
|                                                                                                   |  |                                           |                                                |                     |             |                    |        |
| 4.1.2 Details of augmentation in infrastructure facilities during the year -2018-19               |  |                                           |                                                |                     |             |                    |        |
| Facilities                                                                                        |  |                                           | Existing                                       |                     | Newly added |                    |        |
| Campus area                                                                                       |  |                                           | 17.5 Acres                                     |                     | --          |                    |        |
| Class rooms                                                                                       |  |                                           | 21                                             |                     | --          |                    |        |
| Laboratories                                                                                      |  |                                           | 40                                             |                     | --          |                    |        |
| Seminar Halls                                                                                     |  |                                           | 3                                              |                     | --          |                    |        |
| Classrooms with LCD facilities                                                                    |  |                                           | 21                                             |                     | --          |                    |        |
| Classrooms with Wi-Fi/ LAN                                                                        |  |                                           | 21                                             |                     | --          |                    |        |
| Seminar halls with ICT facilities                                                                 |  |                                           | 3                                              |                     | --          |                    |        |
| Video Centre                                                                                      |  |                                           | --                                             |                     | --          |                    |        |
| No. of important equipments purchased (≥ 1-0 lakh) during the current year.                       |  |                                           | 200                                            |                     | 14          |                    |        |
| Value of the equipment purchased during the year (Rs. in lakhs)                                   |  |                                           | 960.32                                         |                     | 34+         |                    |        |
| Others                                                                                            |  |                                           | --                                             |                     | --          |                    |        |
|                                                                                                   |  |                                           |                                                |                     |             |                    |        |
| 4.2 Library as a Learning Resource                                                                |  |                                           |                                                |                     |             |                    |        |
| 4.2.1 Library is automated {Integrated Library Management System -ILMS}                           |  |                                           |                                                |                     |             |                    |        |
| Name of the ILMS Software                                                                         |  | Nature of automation (fully or partially) |                                                | Version             |             | Year of automation |        |
| SOUL                                                                                              |  | PARTIALLY                                 |                                                | 2.0                 |             | 2007-08            |        |
| 4.2.1 Library Services:                                                                           |  |                                           |                                                |                     |             |                    |        |
|                                                                                                   |  | Existing                                  |                                                | Newly added 2018-19 |             | Total              |        |
|                                                                                                   |  | No.                                       | Value in lakhs                                 | No.                 | Value       | No.                | Value  |
| Text Books                                                                                        |  | 35376                                     | 116                                            | 175                 | 0.75        | 35551              | 116.75 |
| Reference Books                                                                                   |  | 9706                                      | 35.93                                          | 36                  | 0.30        | 9742               | 36.23  |
| e-Books                                                                                           |  | 5918                                      | 68.00                                          | 6039                | 66.00       | 11957              | 1.34   |
| Journals*                                                                                         |  | 76                                        | 1.87                                           | 85                  | 1.96        | 161                | 3.83   |
| e-Journals*                                                                                       |  | 264                                       | 11.79                                          | 183                 | 7.49        | 427                | 19.58  |
| Digital Database                                                                                  |  | 04                                        | 0.60                                           | ----                | ----        | 04                 | 0.60   |
| CD & Video                                                                                        |  | 2224                                      | 1.72                                           | 78                  | ----        | 2302               | 1.72   |
| Library Automation                                                                                |  | 01                                        | 0.50                                           | ----                | ----        | 01                 | 0.50   |
| Weeding (Hard & Soft)                                                                             |  | 2224                                      | 1.72                                           | 147                 | 0.22        | 2371               | 1.94   |
| Others (specify)                                                                                  |  |                                           |                                                |                     |             |                    |        |

☐ Considered for last 5 years i.e., 2013-14 to 2017-18

| 4.3 IT Infrastructure                                                                                                                                                                                                                         |                  |                                       |           |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |                               |                              |        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------------------------|-----------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------------------------|------------------------------|--------|
| 4.3.1 Technology Up-gradation (overall)                                                                                                                                                                                                       |                  |                                       |           |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |                               |                              |        |
|                                                                                                                                                                                                                                               | Total Comp Uters | Compu ter Labs                        | Internet  | Browsing Centres | Computer Centres                                                                                                                                                                                                                                                                                                                                                                                                                                         | Office | Departments                   | Available band width (MGBPS) | Others |
| Existing                                                                                                                                                                                                                                      | 672              | 16                                    | Available | 01               | 01                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 01     | 05                            | 34                           | --     |
| Added                                                                                                                                                                                                                                         | 100              | --                                    | --        | --               | --                                                                                                                                                                                                                                                                                                                                                                                                                                                       | --     | --                            | 66                           | --     |
| Total                                                                                                                                                                                                                                         | 772              | 16                                    | Available | 01               | 01                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 01     | 05                            | 100                          | --     |
|                                                                                                                                                                                                                                               |                  |                                       |           |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |                               |                              |        |
| 4.3.2 Bandwidth available of internet connection in the Institution (Leased line)                                                                                                                                                             |                  |                                       |           |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |                               |                              |        |
| 100 Mbps (Leased Line)                                                                                                                                                                                                                        |                  |                                       |           |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |                               |                              |        |
|                                                                                                                                                                                                                                               |                  |                                       |           |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |                               |                              |        |
| 4.3.3 Facility for e-content                                                                                                                                                                                                                  |                  |                                       |           |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |                               |                              |        |
| Name of the e-content development facility                                                                                                                                                                                                    |                  |                                       |           |                  | Provide the link of the videos and media centre and recording facility                                                                                                                                                                                                                                                                                                                                                                                   |        |                               |                              |        |
| Remote centre Hall with camera and recording facility<br>NPTEL, IIT Mumbai, IIT Kharagpur in video format.                                                                                                                                    |                  |                                       |           |                  | <a href="http://ieeexplore.ieee.org/Xplore/home.jsp">http://ieeexplore.ieee.org/Xplore/home.jsp</a><br><a href="http://www.it.iitb.ac.in/nmeict/videoDownloads.html">http://www.it.iitb.ac.in/nmeict/videoDownloads.html</a><br><a href="http://www.nmeict.iitkgp.ernet.in/audio.php">http://www.nmeict.iitkgp.ernet.in/audio.php</a><br><a href="http://www.nmeict.iitkgp.ernet.in/video_link.php">http://www.nmeict.iitkgp.ernet.in/video_link.php</a> |        |                               |                              |        |
|                                                                                                                                                                                                                                               |                  |                                       |           |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |                               |                              |        |
| 4.3.4 E-content developed by teachers such as: e-PG-Pathshala, CEC (under e-PG-Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc |                  |                                       |           |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |                               |                              |        |
| Name of the teacher                                                                                                                                                                                                                           |                  | Name of the module                    |           |                  | Platform on which module is developed                                                                                                                                                                                                                                                                                                                                                                                                                    |        | Date of launching e - content |                              |        |
| Dr. Hashmi Arshad<br>Dr.Zamiruddin<br>Allurwad Reddy                                                                                                                                                                                          |                  | 1.Strength of Materials               |           |                  | Word press                                                                                                                                                                                                                                                                                                                                                                                                                                               |        | 28.12.2017                    |                              |        |
|                                                                                                                                                                                                                                               |                  | 2.Perfomance based Seismic Design     |           |                  | Google blog spot & Google Class Room,                                                                                                                                                                                                                                                                                                                                                                                                                    |        | 25/10/2018                    |                              |        |
|                                                                                                                                                                                                                                               |                  | 3.Structural Mechanics                |           |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        | 21/12/2018                    |                              |        |
|                                                                                                                                                                                                                                               |                  | 4.Design of Structure                 |           |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        | 27/01/2019                    |                              |        |
|                                                                                                                                                                                                                                               |                  | 5.Planning of Sustainable Development |           |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        | 07/04/2019                    |                              |        |
|                                                                                                                                                                                                                                               |                  | 6.Engg. Mechanics                     |           |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        | 12.07.2019                    |                              |        |

| <b>4.4 Maintenance of Campus Infrastructure</b>                                                                                                      |                                                            |                                        |                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------|------------------------------------------------------------|
| <b>4.4.1 Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year</b> |                                                            |                                        |                                                            |
| Assigned budget on academic facilities                                                                                                               | Expenditure incurred on maintenance of academic facilities | Assigned budget on physical facilities | Expenditure incurred on maintenance of physical facilities |
| 200.00                                                                                                                                               | 215.09 Lacs                                                | 150.00                                 | 178.04 Lacs                                                |

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

<http://www.mgmcen.ac.in/naac-info.aspx>

- The Infrastructure facilities like Land, Buildings, Water Supply, Sanitation, Stores, Electrical, Mechanical Equipment, and Fire extinguishers & Power Generator are maintained by the Construction & Maintenance Team (Estate office) through full-time staff members as well as by staff on hire/agreement.
- All Electrical equipment within the Campus are looked after by the staff of our Electrical Department. For General Cleanliness, Housekeeping, Dusting of equipments and cleaning all glass panes is taken up daily.
- Washrooms are maintained keeping focus on hygiene and maintained by full time staff on roll.
- Each department is held responsible to maintain their Classrooms & Laboratories by reporting to the Estate Office and the maintenance works are carried out regularly.
- The Director, on behalf of the Management, undertake initiatives like Tree Plantation, maintaining Lawns, develop Garden & Nursery Maintenance of Garden and Landscape is done meticulously. Lawns and Pruning and trimming of the bushes & borders is our regular activity.
- Entire plantation on the campus is supported with drip irrigation and sprinkler system promoting optimum use of water. Rain harvesting is also done to conserve the water and to raise the water level of the campus. Regular watering, Regular use of fertilizers, insecticides and pesticides is taken care of to improve the physical ambience in the Campus. All the above works such as Identification of the requirement, award of work, Supervision, Monitoring and Execution etc. is taken care by the Maintenance Team.
- Calibration of most of the equipments is done by the Staff of the respective Departments, rest is outsourced to a standard organizations or its authorized agents.
- Due to the large number of computers & networking, a System Administrator and a Network administrator with their staff look after the maintenance of computers & the networking. All the computers are regularly checked for both Hardware and Software count. Protected with Quick heal Admin Consol. All are shielded with Firewall (Cyberoam 500ia).
- We have Campus Area Network (CAN) having 672 IBM/Lenovo Desktop and Laptop computer systems with IBM Blade Servers and adequate peripherals. The whole network is fire-wall protected. The whole campus including hostels is connected with fibre optic cables with 100 Mbps leased line Internet connectivity. The campus is Wi-Fi enabled and installed with full HD, IP based surveillance camera network. The whole system is regularly updated and maintained. College Administration ERP system supports the academic, financial and

- general administration with the activities like preparing budget, maintaining expenditure, students and staff records.
- Thus all the activities associated with the maintenance and upkeep of the Building, Lab Equipment, Playground, Electrical installations , Internet connectivity, CASERP, Surveillance System, Optical Fibre Networking (LAN and WAN) are taken into account and a separate system is functional to take care of each aspect.
- Books in the library are regularly checked for termite, rats or any other insects. Fumigation is carried out on regular basis to protect from insects. Book binding is done at regular interval of time. Day to day cleanliness is supplemented with use of Naphthalene balls. Binding of periodicals putting together Quarterly .Half yearly and yearly issues annually to our reference section. The PG dissertations and Ph.D. Thesis are preserved in the library for future reference.
- Just creating the infrastructure is never enough but its functioning utility has to be maintained on sustainable basis in the interest of maximum beneficial utilization by the inmates.
- Library has more than 44000 books, journals, e-books, e-journals along with library management software like SOUL and ILMS. Also remote access for the e-sources has been provided.
- All the sports facilities Indoor and Outdoor are reviewed and improved as and when required.
- Land of 7.45 acres is allotted for outdoor sports like Cricket, Football, Volley ball, Basket ball, Hand ball, Hockey, Athletics, Tennis etc. Indoor sports like Badminton, Table-Tennis, Carrom, Chess are encouraged. Canteen facility is available in the campus. RO purified drinking water is supplied.
- A team of Security with 01 Supervisor, 1 Chief & 18 Security men look after the Security of entire Campus.

| <b>CRITERION V - STUDENT SUPPORT AND PROGRESSION:2018-2019</b>                                                                                                                                             |                                                           |                             |                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------------|------------------------------------------------------------------------|
| <b>5.1 Student Support</b>                                                                                                                                                                                 |                                                           |                             |                                                                        |
| <b>5.1.1 Scholarships and Financial Support</b>                                                                                                                                                            |                                                           |                             |                                                                        |
|                                                                                                                                                                                                            | Name /Title of the scheme                                 | Number of students          | Amount in Rupees                                                       |
| Financial support from institution                                                                                                                                                                         | Institutional Free-ship                                   | 25                          | 11,65245/-                                                             |
| Financial support from other sources: (Social Welfare Office)                                                                                                                                              |                                                           |                             |                                                                        |
| a) National                                                                                                                                                                                                | SC                                                        | 223                         | 16982398/-                                                             |
|                                                                                                                                                                                                            | OBC                                                       | 235                         | 8127813/-                                                              |
|                                                                                                                                                                                                            | NT                                                        | 112                         | 7863072/-                                                              |
|                                                                                                                                                                                                            | SBC                                                       | 53                          | 3632119/-                                                              |
|                                                                                                                                                                                                            | ST                                                        | 07                          | 546473/-                                                               |
|                                                                                                                                                                                                            | EBC                                                       | 413                         | 13226171/-                                                             |
|                                                                                                                                                                                                            | Minority                                                  | 85                          | 2125000/-                                                              |
| b) International                                                                                                                                                                                           | ----                                                      | ----                        | ----                                                                   |
| 5.1.2 Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc., |                                                           |                             |                                                                        |
| Name of the capability enhancement scheme                                                                                                                                                                  | Date of implementation                                    | Number of students enrolled | Agencies involved                                                      |
| Aptitude and Soft Skill Training                                                                                                                                                                           | July-August 2019                                          | 426                         | Universal Education Bangalore                                          |
| Interview Training                                                                                                                                                                                         | 21-23 Sept. 2019                                          | 25                          | Universal Education Bangalore, Mukesh Jain                             |
| Fundamentals of Basic English                                                                                                                                                                              | 20 <sup>th</sup> Dec 2018 to 6 <sup>th</sup> January 2019 | 443                         | Mastermind English Academy, Pune                                       |
| Remedial Coaching                                                                                                                                                                                          | October-2018 to April-2019                                | 350                         | College Faculty                                                        |
| Language Lab                                                                                                                                                                                               | July 2018 to May 2019                                     | 300                         | College Faculty                                                        |
| Yoga                                                                                                                                                                                                       | Yes                                                       | 175                         |                                                                        |
| Meditation                                                                                                                                                                                                 | Yes                                                       | 170                         |                                                                        |
| Personal Counseling                                                                                                                                                                                        | July 2018 to May 2019                                     | 40                          | College Faculty                                                        |
| Mentoring                                                                                                                                                                                                  | July 2018 to May 2019                                     | Yes                         | College Faculty : 20-25 Students are allocated to each faculty members |
| CAD / CAM & CNC Machine                                                                                                                                                                                    | 11 June 2018 to 23 June 2018                              | 61                          | IGTR, Aurangabad                                                       |
|                                                                                                                                                                                                            |                                                           |                             |                                                                        |

**5.1.3 Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year:2018-2019**

| Year    | Name of the scheme                | Number of benefited students by Guidance for Competitive examination | Number of benefited students by Career Counselling activities | Number of students who have passed in the competitive exam | Number of students placed |
|---------|-----------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------|---------------------------|
| 2018-19 | 1. Gate Coaching                  | 120                                                                  | 250                                                           | 3                                                          | 03                        |
|         | 2. Aptitude & Softskills Training | 426                                                                  | ...                                                           | ...                                                        | 136                       |

**5.1.4 Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year:2018-2019**

| Total grievances received | No. of grievances redressed | Average number of days for grievance redressal |
|---------------------------|-----------------------------|------------------------------------------------|
| Nil                       | Nil                         | Nil                                            |

**5.2 Student Progression**

**5.2.1 Details of campus placement during the year:2018-2019**

| On campus                                        |                                 |                           | Off Campus                    |                                 |                           |
|--------------------------------------------------|---------------------------------|---------------------------|-------------------------------|---------------------------------|---------------------------|
| Name of Organizations Visited                    | Number of Students Participated | Number of Students Placed | Name of Organizations Visited | Number of Students Participated | Number of Students Placed |
| TCS Limited, Pune                                | 184                             | 18                        | TCS Limited, Pune             | --                              | ---                       |
| Wipro Technologies, Pune                         | 76                              | 7                         | ---                           | ---                             | ---                       |
| ATOS Syntel Pvt. Limited, Pune                   | 45                              | 4                         | ---                           | ---                             | ---                       |
| Dark Horse Digital Solutions pvt Ltd., Hyderabad | 89                              | 4                         | ---                           | ---                             | ---                       |
| Cyient Limited, Hyderabad                        | 25                              | 1                         | ---                           | ---                             | ---                       |
| MountBlue Technologies, Bangalore                | 2                               | 2                         | ---                           | ---                             | ---                       |
| Sankey Solutions, Mumbai                         | 125                             | 11                        | ---                           | ---                             | ---                       |
| Aurus Tech Pvt Limited, Pune                     | 35                              | 2                         | ---                           | ---                             | ---                       |
| Extra Marks Education Pvt. Limited, Mumbai       | 1                               | 1                         | ---                           | ---                             | ---                       |
| Universal Education, Bangalore                   | 210                             | 17                        | ---                           | ---                             | ---                       |
| Uvimac Engineering                               |                                 |                           |                               |                                 |                           |

|                                             |     |    |     |     |     |
|---------------------------------------------|-----|----|-----|-----|-----|
| Solutions Pvt. Limited, Pune                | 45  | 15 | --- | --- | --- |
| Paramatrix technologies, Mumbai             | 120 | 1  | --- | --- | --- |
| Suroj Buildcon Pvt. Ltd., Pune              | 35  | 4  | --- | --- | --- |
| Davi Engineering Pvt Ltd., Pune             | 30  | 10 | --- | --- | --- |
| ITC Infotech Pvt. Limited, Pune             | 120 | 1  | --- | --- | --- |
| Dhoot Transmissions Pvt. Ltd. Aurangabad    | 135 | 39 | --- | --- | --- |
| Demand Farm Inc., Pune.                     | 25  | 1  | --- | --- | --- |
| Find ability Sciences Pvt. Ltd., Aurangabad | 40  | 1  | --- | --- | --- |

#### 5.2.2 Student progression to higher education in percentage during the year:2018-2019

| Year     | Number of students enrolling into higher education | Programme graduated from | Department graduated from | Name of institution joined | Name of Programme admitted to |
|----------|----------------------------------------------------|--------------------------|---------------------------|----------------------------|-------------------------------|
| 2018 -19 | 2                                                  | CSE                      | CSE                       | SGGS&T Nanded              | CNIS                          |
| 2018 -19 | 2                                                  | IT                       | IT                        | SGGS&T Nanded              | IT                            |
| 2018 -19 | 5                                                  | CIVIL                    | CIVIL                     | SGGS&T Nanded              | Structure                     |
| 2018 -19 | 1                                                  | Mechanical               | Mechanical                | SGGS&T Nanded              | CAD-CAM                       |

#### 5.2.3 Students qualifying in state/ national/ international level examinations during the year:2018-2019 (eg: NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

| Items                     | No. of Students selected/ qualifying | Registration number/roll number for the exam |
|---------------------------|--------------------------------------|----------------------------------------------|
| NET                       | --                                   | --                                           |
| SET                       | --                                   | --                                           |
| SLET                      | --                                   | --                                           |
| GATE                      | 03                                   | --                                           |
| GMAT                      | --                                   | --                                           |
| CAT                       | --                                   | --                                           |
| GRE                       | --                                   | --                                           |
| TOFEL                     | --                                   | --                                           |
| Civil Services            | --                                   | --                                           |
| State Government Services | --                                   | --                                           |
| Any Other                 | --                                   | --                                           |

#### 5.2.4 Sports and Cultural activities / Competitions organised at the nstitution level during the year: 2018-19

| Activity   | Level(ICT/IUT/Institution)                           | Participants |
|------------|------------------------------------------------------|--------------|
| Swimming   | Inter-University Tournament(All India Participation) | 02           |
| Fencing    | Inter-University Tournament(All India Participation) | 01           |
| Basketball | Inter-University Tournament (West-Zone)              | 02           |

|                         |                                           |     |
|-------------------------|-------------------------------------------|-----|
|                         | Participation)                            |     |
| Wrestling               | Inter-College Tournament(SRTMUN)          | 01  |
| Swimming                | Inter-College Tournament(SRTMUN)          | 04  |
| Basketball              | Inter-College Tournament(SRTMUN)          | 05  |
| Chess                   | Inter-College Tournament(SRTMUN)          | 01  |
| Swimming                | MIT-Summit                                | 01  |
| Basketball(Boys)        | Zenith-2019                               | 05  |
| Basketball(Girls)       | Zenith-2019                               | 05  |
| Classical Singing       | Inter-University Youth Festival-2019      | 01  |
| Harmonium               | Inter-University Youth Festival-2019      | 01  |
| Western Group Singing   | Inter-University Youth Festival-2019      | 06  |
| Shobhayatra             | Inter-University Youth Festival-2019      | 16  |
| Poster Making           | Inter-University Youth Festival-2019      | 01  |
| Western Solo Singing    | Inter-University Youth Festival-2019      | 01  |
| Indian Group Singing    | Inter-University Youth Festival-2019      | 06  |
| Powada                  | Inter-University Youth Festival-2019      | 06  |
| Cricket                 | Institution Level(Sports Jhankaar-2019)   | 176 |
| Volleyball              | Institution Level(Sports Jhankaar-2019)   | 78  |
| Basketball              | Institution Level(Sports Jhankaar-2019)   | 45  |
| Football                | Institution Level(Sports Jhankaar-2019)   | 77  |
| Carom(Single/Duble/Mix) | Institution Level(Sports Jhankaar-2019)   | 80  |
| Chess                   | Institution Level(Sports Jhankaar-2019)   | 78  |
| Kabaddi                 | Institution Level(Sports Jhankaar-2019)   | 56  |
| Throw Ball              | Institution Level(Sports Jhankaar-2019)   | 72  |
| Tug of War              | Institution Level(Sports Jhankaar-2019)   | 118 |
| Futsal                  | Institution Level(Sports Jhankaar-2019)   | 60  |
| Swimming                | Institution Level(Sports Jhankaar-2019)   | 12  |
| Slow Bike Race          | Institution Level(Sports Jhankaar-2019)   | 52  |
| Power Lifting           | Institution Level(Sports Jhankaar-2019)   | 34  |
| Badminton               | Institution Level(Sports Jhankaar-2019)   | 28  |
| Table Tennis            | Institution Level(Sports Jhankaar-2019)   | 26  |
| Athletics               | Institution Level(Sports Jhankaar-2019)   | 38  |
| Short put               | Institution Level(Sports Jhankaar-2019)   | 22  |
| Mr. & Miss. MGM         | Institution Level(Cultural Jhankaar-2019) | 18  |
| Mr. & Miss. Fresher     | Institution Level(Cultural Jhankaar-2019) | 22  |
| Essay                   | Institution Level(Cultural Jhankaar-2019) | 41  |
| Mahanadi Competition    | Institution Level(Cultural Jhankaar-2019) | 36  |
| Rangoli Competition     | Institution Level(Cultural Jhankaar-2019) | 14  |
| Skit Competition        | Institution Level(Cultural Jhankaar-2019) | 23  |
| Dance Competition       | Institution Level(Cultural Jhankaar-2019) | 56  |
| Singing Competition     | Institution Level(Cultural Jhankaar-2019) | 27  |

### 5.3 Student Participation and Activities

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

| Year    | Name of the award/ medal   | National/ International | Sports | Cultural | Student ID No                                  | Name of the student                                                                                        |
|---------|----------------------------|-------------------------|--------|----------|------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| 2018-19 | Smart India Hackathon-2019 | 01(National)            | --     | --       | TE CSE<br>TE CSE<br>TE CSE<br>BE CSE<br>SE CSE | 1.Omkar Deshpande<br>2.Pratiksha Walbe<br>3. Shivani Vaidya<br>4.Dhanashree Kulkarni<br>5. Jayesh Ukhalkar |

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

- As per the Rules & Regulation under provision of Section 40 of the Maharashtra University Act,1994 and Guidelines provided by SRTM University, Nanded, the Student Council is formed.
- Adequate Funds are provided by the Institute.
- Our aim is Personality Development of the students so plenty of Sports and Cultural activities are organized throughout the year. Our Students were selected for Inter-University Competition.
- Student representation is there on Internal Quality Assurance Cell(IQAC)
- To Support the active academic environment we have professional clubs like CUC,CESA,MESA, ITSA and ETA
- Students are encouraged to participate in outside competition such as Robotics, Autocad, BAJA, Hackathon and Paper Presentation. Our Students has won many awards.
- Students Participating in Academic Monitoring.
- All Student Representative are selected on the basis of their merits and organizing capabilities in the concerned Sports / Cultural activity. They are expected to promote and organize various activities in the campus and keep it active throughout the year.
- The activities are organized and conducted by the students under the guidance of faculty members.
- Few Events under Student Council are:
  1. Participation in Inter-University Youth Festival.
  2. Road Safety Campaign
  3. General and Technical Quiz
  4. Donation for Social Causes
  5. Annual Social Gathering
  6. Blood Donation Camp
  7. Tree Plantation
  8. Campus Cleaning Activity
  9. Other Environment Activity.
- CONSTITUTION ( Year:2018-2019)

| Sr.No. | Designation                 | Member                                   |
|--------|-----------------------------|------------------------------------------|
| 1      | Chairperson                 | Dr.Mrs.Geeta S. Lathkar, Director,MGMCEN |
| 2      | NSS Coordinator             | Dr. Kalpeshkumar M. Sharma               |
| 3      | Student Council Incharge    | Asst.Prof. Pankaj P. Pawar               |
| 4      | General Secretary           | Hansraj Singh Rodgi                      |
| 5      | Cultural Secretary          | Anuja Bhosle                             |
| 6      | Sports Secretary            | Dinesh More                              |
| 7      | Magazine Secretary          | Pooja Maske                              |
| 8      | Ladies Representative       | Priyanka Kadam                           |
| 9      | NSS Secretary               | Sandeep Joshi                            |
| 10     | Girls Hostel Representative | Bhagyashri Dalvi                         |
| 11     | Boys Hostel Representative  | Rushikesh Giri                           |

### 5.3 Alumni Engagement

#### 5.3.1 Whether the institution has registered Alumni Association? Yes/No, if yes give details (maximum 500 words): 2018-2019

- Strongest Alumni Network of our institute is our asset. We have a good rapport with our pass out student right from the first batch. It is matter of keep interest of Hon. Chairman and Respected Director who always encourage us.
- Alumni meetings are arranged on regular basis. Such meetings have been

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| <p>organized at Pune, Delhi, Noida, and Nanded.</p> <p>➤ Every Year we call our outstanding achievers from Alumni as our Chief Guests in Annual Social Gathering. This interaction and sharing success stories of eminent alumni helps the students in a great manner.</p> <p>➤ Alumni help us to organize industrial visit and training also the placement.</p> <p>➤ We have launched special group activity Alumni Interaction as Mentor (AIM) on 2<sup>nd</sup> October 2016 through these 5 students is allotted to each alumni. There is encouraging response from our alumni to provide Guidance and Professional support for developing their carrier competence.</p> <p>➤ Each Department organizes the Guest lectures of Alumni for the students. This helps to know current trends and upcoming technologies in the industry.</p> <p>➤ Training and Placement Cell continuously interact with Alumni for skill development and carrier guidance.</p> <p>➤ Active Social Networking groups are formed for regular interaction with alumni. Director and Staff members of the institute are part of this interaction. All current updates and various activities are shared on social networking.</p> <p>➤ The Institution implements most of the suggestion given by the alumni in the interest of the students regarding Laboratory and Curriculum development.</p> <p>➤ A Web page on our institute website has been created for our alumni registration. All pass out students register themselves on this web page and database of alumni is generated automatically.</p> <p>➤ Last alumni meet was organized in <u>Feb,2017</u>, an amount of INR 2.5 Lakhs has been collected as initial contribution for alumni fund. Registration of Alumni Association is in process.</p> <p>➤ We take pride in our Alumni having placed in organization for repute world over like Intel, Google, Microsoft, L&amp;T, Bosch, Tata Motors, BHEL, HAL and many more. Also the Government organizations like PWD, Water Resources Department, Indian Railway, Indian Oil, ONGC, Civil Services and all Defense Services.</p> <p>➤ We are proud of our distinguish alumni who have received National and International reorganization for their exemplary contribution.</p> <p>To Name a Few :</p> <ol style="list-style-type: none"> <li>1. Lt. Col. Mukund Sarsar : Gallantry award from President of India.</li> <li>2. Kirthiga Reddy : Investment Advisor, Soft Bank, Japan</li> <li>3. Mukesh Jain: Gold Star award by Microsoft, USA</li> <li>4. Narendrapal Singh Sidhu : Best Employee award by Indian Oil.</li> <li>5. Dr. Munnir Sayyed : Associate Vice President, Reliance Jio, Mumbai.</li> <li>6. Gaurav Anand : Territory Manager, Wipro</li> <li>7. PrashantSingh Bhadoria : Team Leader for First Indigenous Indian Fighter Aeroplane HTT40</li> </ol> |                     |
| 5.3.2 No. of <del>registered</del> enrolled Alumni:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2522                |
| 5.3.3 Alumni contribution during the year (in Rupees) :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 749000/-            |
| 5.3.4 Meetings/activities organized by Alumni Association :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | group communication |

| CRITERION VI –GOVERNANCE, LEADERSHIP AND MANAGEMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
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| <b>6.1 Institutional Vision and Leadership</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| 6.1.1 Mention two practices of decentralization and participative management during the last year 2018-19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| <p><b>Two Practices of Decentralization</b></p> <p>We believe in participative management. Instead of passing orders from higher authority and expecting others to obey, it is always a better way of functioning if there is appropriate involvement of all the elements of the system. We always take care in every type of functioning academic or administrative, all the elements involved participate. To illustrate this we are giving two examples as mentioned below.</p> <p>(i) <b>Training and Placement Cell:</b> Training and placement cell functions in dual mode i.e. Organising for campus placements and arranging for appropriate training to the students enhancing their employability. A separate training and placement officer takes care of training and placement activities in the campus. The support from each Department is provided by the departmental coordinator assigned for the same. The committee for Training and Placement comprises of the Director, all the Heads of the Department, T&amp;P Officer and Departmental T&amp;P coordinators. Together the policies are formed for kind of training to be imparted to the students of different departments and accordingly the training is provided. The coordinators maintain the database of the students as well as the relevant industries for the departments. The necessary contact is established with the industry people for getting the internships for the students. Additional expert lectures by the resource persons from industries and academia are organized for generic as well as specific technical training in the relevant fields for the students. Every faculty member is free to suggest and bring such resource person to the campus. The campus interviews are organized also the students are sent outside for the pool-campus activities organized in other Institutions. Alumni are also made to participate to establish and nurture industrial contacts. Through AIM (Alumni Interaction as Mentors), the help of alumni is sought to provide professional guidance to the students. We are encouraging one faculty one industry and one faculty one alumni policy to have the effective interaction with industry.</p> <p>(ii) <b>Development of Laboratories:</b> The additional laboratories of department of Electronics and Telecommunication and Computer Engineering were to be developed and installed. The laboratory in charge faculty members initiated the requirement. Senior faculty and Head of the Department prepared the list of the best brands and specifications. Tenders were invited, comparative statements were made by the purchase committee comprising of senior faculty member, HOD and Director. The final approval was obtained from the governing council. The purchase order was issued by the stores department. The material was received by the store. Quality check was carried out by the faculty members and finally the equipments were handed over to the department. Meanwhile the plan of the laboratory was discussed and finalised by Architect, HOD, Director and Chairman, Governing Council. Accordingly the necessary civil and electrical work was carried out and furniture was installed.</p> <p>So right from laboratory incharge, the junior faculty, the senior faculty, HOD, Director, Governing Council and the Chairman all elements were involved in the process of procurement of equipment and development of infrastructure achieving the de-centralisation and participative management.</p> |  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6.1.2 Does the institution have a Management Information System (MIS)? : <b>Yes</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>6.2 Strategy Development and Deployment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 6.2.1 Quality improvement strategies adopted by the institution for each of the following                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <input type="checkbox"/> <b>Curriculum Development</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> To ensure that the curriculum is updated regularly</li> <li><input type="checkbox"/> To have maximum participation in the course structure revision in the University</li> <li><input type="checkbox"/> To keep getting continuous feedback from the Alumni, or Industrial contacts</li> <li><input type="checkbox"/> To enhance Industry contacts for getting the internships/projects</li> <li><input type="checkbox"/> We have introduced one teacher one Industry as one of the good practices</li> <li><input type="checkbox"/> Change in affiliation has brought in new course structure with CBCS</li> <li><input type="checkbox"/> We regularly sponsor our faculty for FDPs/Conferences and also organize FDPs for upliftment of faculty.</li> <li><input type="checkbox"/> Expert lectures from Industry/academia regularly organized.</li> <li><input type="checkbox"/> Sensitisation of students towards society is ensured.</li> </ul> |
| <input type="checkbox"/> <b>Teaching and Learning</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> To ensure teaching learning system to be student centric</li> <li><input type="checkbox"/> To prepare and Plan academic calendar in advance for each semester and monitor on regular basis</li> <li><input type="checkbox"/> To keep the Students well informed about the whole schedule and give feedback to parents.</li> <li><input type="checkbox"/> To increase the effectiveness, ICT enabled class rooms are provided</li> <li><input type="checkbox"/> Continuous up-gradation of faculty is observed.</li> <li><input type="checkbox"/> Students are encouraged to participate in various competitions and activities. Total personality development is focused.</li> <li><input type="checkbox"/> To develop the system for assessment of COs with respect to program specific outcomes and program objectives</li> <li><input type="checkbox"/> We ensure continuous improvement.</li> </ul>                                              |
| <input type="checkbox"/> <b>Examination and Evaluation</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Continuous evaluation is ensured for every semester with mid-semester examinations and two periodical tests in addition to regular University examination</li> <li><input type="checkbox"/> Submission of assignments and journals is part of continuous assessment.</li> <li><input type="checkbox"/> The whole program is time bound adhering to the academic calendar in concurrence with the University.</li> <li><input type="checkbox"/> Transparent evaluation, is ensured both in internal evaluation or University Paper Assessment</li> <li><input type="checkbox"/> University papers are assessed with bar codes.</li> <li><input type="checkbox"/> Internal test papers are given back to the students and solution is discussed.</li> <li><input type="checkbox"/> The students also know details of their submission performance with criteria and marks obtained.</li> </ul>                                                    |
| <input type="checkbox"/> <b>Research and Development</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Participation of faculty in FDPs/ Workshops/ Conferences is encouraged</li> <li><input type="checkbox"/> Faculty is encouraged to publish papers and sponsored liberally to present the same at National and International levels (USA, Malaysia, Singapore, China, Portugal etc)</li> <li><input type="checkbox"/> There is addition of 10 research publications in International journals and conferences this year.</li> <li><input type="checkbox"/> It is compulsory to publish two international journal papers before submission of PhD thesis also two National/International publications before submission of PG dissertation.</li> <li><input type="checkbox"/> Collaboration with Auto Cluster (Mechanical) Aurangabad, ISTC (E&amp;TC) have opened up new opportunities for developmental work.</li> <li><input type="checkbox"/> Thirteen candidates have completed their PhDs so far.</li> </ul>                                   |



### **Library, ICT and Physical Infrastructure / Instrumentation**

#### **Library:**

- ☐ To maintain the Library well above the desired norms laid by AICTE.
- ☐ To keep adding the books and journals as per AICTE norms
- ☐ Students are encouraged to use reading room for extra hours during exams, providing refreshment

#### **ICT :**

- ☐ Enhanced use of ICT is encouraged
- ☐ To add and maintain e-learning resources like NPTEL
- ☐ To subscribe IEEE, ASME, ASCE journals annually
- ☐ Training programs through Distance Education Program with IITB
- ☐ To have smart class-rooms

#### **Physical Infrastructure:**

- ☐ To create and maintain physical infrastructure as per AICTE norms
- ☐ To strengthen the laboratories



### **Human Resource Management**

- ☐ To employ and retain adequate Human Resource for teaching as well as administrative functioning
- ☐ To bring out continuous improvement in the employees
- ☐ To organize FDPs, Conferences, Training programs/workshops also sponsor the faculty
- ☐ To sponsor the faculty for higher education in the Institutions like IITs, RECS
- ☐ To organize special training like MS-OFFICE, TALLY for non-teaching and supporting staff
- ☐ To have enhanced use of computers in administration and student support.
- ☐ All kinds of leaves and benefits are given to the teaching and non-teaching staff as per AICTE/UGC norms during service period and post retirement.



### **Industry Interaction / Collaboration**

- ☐ To put the society to the benefit with well trained manpower
- ☐ To provide for essential Industrial exposure to add potential to the education of the students
- ☐ To organize Industrial visits and internships
- ☐ To encourage collaboration and MOUs with Industries
- ☐ To encourage Students to undergo training programs in Industry
- ☐ Collaboration with various Industries/Institutes like IGTR, ISTC, and Texas Instruments, Auto Cluster, Aurangabad, Rucha Industries, Pawan Group of Industries etc. has led to enhanced level of training in the Institute.

Visit to MSME, Mumbai, BARC Mumbai, MOU with Auto cluster are some of the prominent activities

☐ **Admission of Students**

- ☐ To have admissions allotted by the Competent Authority, State Govt. through centralized admission procedure through the entrance examination conducted by the state government and entrance test conducted at national level (JEE)
- ☐ To have 5% admissions with Tuition Fees Waiver Scheme for meritorious students.
- ☐ To provide financial assistance to the weak/deserving, physically challenged students and to the wards of the employees
- ☐ To provide free services to fill-up the online application form through facilitation centre.
- ☐ To adopt reservation policy as per Government norms
- ☐ Provide 20% lateral entries in Direct Second Year for students completing diploma

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

☐ **Planning and Development**

- ☐ Vision, Mission Statement and strategic plan are displayed on website.
- ☐ Short term and long term goals are also displayed on website and communicated to all.
- ☐ Code of Conduct for various elements of Organization is displayed on Website.

☐ **Administration**

- ☐ Notice for the meetings are circulated through digital media.
- ☐ Biometric attendance is in place.
- ☐ College administration is maintained through MIS
- ☐ Leave records are maintained online.
- Student attendance is maintained online

☐ **Finance and Accounts**

- ☐ Finance and accounts is managed online.
- ☐ Daily accounts is done online.
- ☐ Students pay their fees online.
- Payments are done online through Bank.

☐ **Student Admission and Support**

- ☐ Students apply for admissions online.
- ☐ Students are allotted to institution online.
- ☐ Students pay the fees through SBI collect.
- ☐ All queries of students are addressed through e-mail.

## ☐ Examination

- ☐ Students fill up the Exam Forms online.
- ☐ Question papers are received online from the University.
- ☐ Answer sheets are scanned and made available to the faculty online for evaluation.
- ☐ Result declaration is online.

## 6.3 Faculty Empowerment Strategies

6.3.1 Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year 2017-18

| Sr. No. | Name of teacher            | PAN        | Name of conference/ workshop attended for which financial support provided                                        | Name of the professional body for which membership fee is provided | Amount of support |
|---------|----------------------------|------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------|
| 1       | Mukkawar Vinayak Vasantao  | BEQPM9683G | 5 <sup>th</sup> theme meeting on Advanced Technologies in Service of Rural India organized by SVERI at Pandharpur |                                                                    | 4058              |
| 2       | Titare Shivprasad Indrajit | AIEPT6561H |                                                                                                                   |                                                                    | 4058              |
| 3       | Sayed Shoaib Anwar         | BHTPS8407C |                                                                                                                   |                                                                    | 4057              |
| 4       | Mukkawar Vinayak Vasantao  | BEQPM9683G | ICCTASP Dbatu Lonere                                                                                              |                                                                    | 9219              |
| 5       | Manjramkar Manisha         | ASNPB6624L | ICOEI 2018 AT Tamilnadu                                                                                           |                                                                    | 5750              |
| 6       | Manjramkar Manisha         | ASNPB6624L | Internal Journal of ET& A(Classification of Leaf Diseases using texture feature &KNN classifier(Aug 2018)         |                                                                    | 2100              |
| 7       | Manjramkar Manisha         | ASNPB6624L | Internal Journal of ET& A(A Literature survey Aug 2018)                                                           |                                                                    | 2100              |
| 8       | Bhandare Mangesh           | ASMPB2444D | One week Short term Prgram on ML- The Journey of Transforming Technology At JNEC Abd(3-7 Jul 2018)                |                                                                    | 7402              |
| 9       | Jagalpure Saurabha         | AYHPJ6379C |                                                                                                                   |                                                                    | 7402              |
| 10      | Dr Kude Vivek Padmakarrao  | AMTPK2591B | FDP Program on Product Design Engineering - Computer Oct 12- Oct 16 2018                                          |                                                                    | 1400              |
| 11      | Sawale Jagannath Khanduji  | ANGPS9673Q |                                                                                                                   |                                                                    | 1400              |
| 12      | Banwaskar Mangal Ramrao    | ADKPB6502F | Two week AICTE approved FDP 101x NMEICT on "Foundation Program in ICT for Education.                              |                                                                    | 4245              |
| 13      | Abdul Rehman               | ABIP17754A | Two Days Workshop on E                                                                                            |                                                                    | 7830              |

|    |                                 |            |                                                                                                                 |                                                 |       |
|----|---------------------------------|------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------|
|    | Mohammed Iqba                   |            | Yantra Robotics at IIT Bombay<br>(2-3 Aug 2019)                                                                 |                                                 |       |
| 14 | Jarikote Shashank<br>Shankarrao | AKJPJ8613P |                                                                                                                 |                                                 | 7830  |
| 15 | Tuptewar Deviprasad J           | AIGPT8901R |                                                                                                                 |                                                 | 7830  |
| 16 | Aghor Dipti B.                  | AWDPA5872G |                                                                                                                 |                                                 | 7830  |
| 17 | Banwaskar Mangal<br>Ramrao      | ADKPB6502F | FDP 201x “Pedagogy for Online<br>and Blended Teaching-Learning<br>Process                                       |                                                 | 5780  |
| 18 | Dr.Mrs. Geeta<br>S.Lathkar      | AACPL8818R |                                                                                                                 | Ishrae Headquarters<br>(Membership<br>Renewal ) | 3540  |
| 19 | Manjramkar Manisha              | ASNPB6624L | Cyber Security Best Practices<br>for Mangers & Executives At<br>Hydrabad                                        |                                                 | 17500 |
| 20 | Dr.Govind Hambarde              | ABRCH9952Q | Co-ordinators Workshop on<br>Koha and Library automation at<br>IIT Bombay(29 Sep 2018)                          |                                                 | 4965  |
| 21 | Dr.Govind Hambarde              | ABRCH9952Q | ReEQIP 2018 SRTMUN(17 Oct<br>2018)                                                                              |                                                 | 300   |
| 22 | Mukkawar Vinayak<br>Vasantrao   | BEQPM9683G | IJPER Paper Presentation                                                                                        |                                                 | 2100  |
| 23 | Mukkawar Vinayak<br>Vasantrao   | BEQPM9683G | EQIP-III sponsored short term<br>course on IOT theory &<br>Applications at IIT Kharagpur                        |                                                 | 12556 |
| 24 | Bandewar Sachin<br>Prabhakar    | ATQPB7155G |                                                                                                                 |                                                 | 13760 |
| 25 | Dr Rajurkar Archana<br>Milind   | AARPK2836K | Recent trends in image<br>processing and pattern<br>recognition(rtip2r)International<br>Conference at Solapur   |                                                 | 5800  |
| 26 | Pande Nikita                    | BNSPP5802K |                                                                                                                 |                                                 | 5800  |
| 27 | . Bisen Rahulsingh G.           | AFZPB8710J |                                                                                                                 |                                                 | 5800  |
| 28 | Khan Mohd Juned                 | DQCPK9959M |                                                                                                                 |                                                 | 5800  |
| 29 | Dr Rajurkar Archana<br>Milind   | AARPK2836K |                                                                                                                 | IEEE, ISTE<br>Membership                        | 21040 |
| 30 | Pande Nikita                    | BNSPP5802K | AI workshop at symbiosis at<br>Pune                                                                             |                                                 | 10000 |
| 31 | Naik Deepashri                  | ATNPN0236H |                                                                                                                 |                                                 | 10000 |
| 32 | Kapre Bhagyashree               | BHTPK1564L | 6 Day National Boot<br>Camp/STTP Workshop on<br>Virtual Lab Development At<br>MIT Aurngabad<br>(06-11 Feb 2019) |                                                 | 7000  |
| 33 | Salve Aamrpali                  |            |                                                                                                                 |                                                 | 7000  |

| <b>6.3.2 Number of professional development/administrative training organized by the college for teaching and non teaching staff during year (2018-19)</b> |                                                                                      |                                                                                      |                        |                                            |                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------|--------------------------------------------|------------------------------------------------|
| <b>Sl. No</b>                                                                                                                                              | <b>Title of the professional development program organized for teaching staff</b>    | <b>Title of the administrative training program organized for non-teaching staff</b> | <b>Dates (from-to)</b> | <b>No of participants (Teaching staff)</b> | <b>No of participants (Non-teaching staff)</b> |
| 1                                                                                                                                                          | One Day Workshop on Koha and Library automation at Nanded                            | One Day Workshop on Koha and Library automation at Nanded                            | 12-Oct-18              | 2                                          | 4                                              |
| 2                                                                                                                                                          | Co-ordinators Workshop on Koha and Library automation at IIT Bombay                  | Co-ordinators Workshop on Koha and Library automation at IIT Bombay                  | 29-Sep-18              | 1                                          | 1                                              |
| 3                                                                                                                                                          | Two week AICTE approved FDP 101x NMEICT on “Foundation Program in ICT for Education. | Nil                                                                                  | 13 Sept -10 Oct 2018   | 48                                         | Nil                                            |
| 4                                                                                                                                                          | FDP 201x “Pedagogy for Online and Blended Teaching-Learning Process                  | Nil                                                                                  | 30 Oct-18 Dec 2018     | 45                                         | Nil                                            |
| 5                                                                                                                                                          | One day Python Workshop organised by ICT by IIT Bombay (PMMMNMTT)                    | Nil                                                                                  | 22-Jun-19              | 24                                         | Nil                                            |
| 6                                                                                                                                                          | FDP On data Science using R Programming TEQIP -III,DBATU Lonere                      | Nil                                                                                  | 7-11 Jan 2019          | 8                                          | Nil                                            |

6.3.3 No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year (2018 - 19)

| <b>Sr.No.</b> | <b>Title of the professional development programme</b>                                               | <b>Number of teachers who attended</b> | <b>Date and Duration (from – to)</b> |
|---------------|------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------|
| 1             | ICOEI 2018 AT Tamilnadu                                                                              | 1                                      | 11-12 May 18                         |
| 2             | AI workshop at symbiosis at Pune                                                                     | 2                                      | 13-15 Jun 2018                       |
| 3             | One week Short term Program on ML- The Journey of Transforming Technology At JNEC Aurangabad         | 2                                      | 3-7 Jul 2018                         |
| 4             | One day Python Workshop organised by ICT by IIT Bombay (PMMMNMSTT)                                   | 24                                     | Saturday, June 22, 2019              |
| 5             | Co-ordinators Workshop on Koha and Library automation at IIT Bombay                                  | 1                                      | 29 September 2018                    |
| 6             | One Day Workshop on Koha and Library automation at Nanded                                            | 2                                      | 12-Oct-18                            |
| 7             | Re EQIP 2018 SRTMUN                                                                                  | 1                                      | 17-Oct-18                            |
| 8             | Two week AICTE approved FDP 101x NMEICT on “Foundation Program in ICT for Education.                 | 48                                     | 13 Sept -10 Oct 2018                 |
| 9             | Recent trends in image processing and pattern recognition(rtip2r)International Conference at Solapur | 4                                      | .....                                |
| 10            | ICCTASP Dbatu Lonere                                                                                 | 1                                      | .....                                |
| 11            | FDP Program on Product Design Engineering - Computer at DBATU Lonere                                 | 2                                      | 12-16 Oct 2018                       |
| 12            | FDP 201x “Pedagogy for Online and Blended Teaching-Learning Process                                  | 45                                     | 30 Oct-18 Dec 2018                   |
| 13            | Cyber Security Best Practices for Managers & Executives At Hyderabad                                 | 1                                      | 3-5 Jan 2019                         |
| 14            | FDP On data Science using R Programming TEQIP -III,DBATU Lonere                                      | 8                                      | 7-11 Jan 2019                        |
| 15            | 6 Day National Boot Camp/STTP Workshop on Virtual Lab Development At MIT Aurangabad                  | 2                                      | 6-11 Feb 2019                        |

#### 6.3.4 Faculty and Staff recruitment (no. for permanent/fulltime recruitment):

| Teaching  |          | Non-teaching |                    |
|-----------|----------|--------------|--------------------|
| Permanent | Fulltime | Permanent    | Fulltime/temporary |
| 87        | 87       | 73           | 73                 |

#### 6.3.5 Welfare schemes for Teaching-Non teaching

|                                        |                                                                                                                                          |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Teaching-Non teaching staff & Students | <b>1. Freeship:</b><br>Freeship in fees is given to the Wards of employees of the Institution. Given to the needy and deserving students |
|                                        | <b>2. Medical Expenses:</b><br>In emergency (critical situation) medical expenses are given.                                             |
|                                        | <b>3. Education:</b><br>Free education to the wards of deceased staff is given.                                                          |
|                                        | <b>4. Employment:</b><br>Appropriate jobs are given to the dependants of deceased staff.                                                 |
|                                        | <b>5. Advance against salary:</b><br>In case of medical or other emergency needs, advance against salary without interest is given.      |
|                                        | <b>6. Provident Fund:</b><br>PF is given to the staff (If applicable as per rules of Govt).                                              |
|                                        | <b>7. Gratuity:</b><br>Gratuity is given to the staff.                                                                                   |
|                                        | <b>8. Leave Encashment:</b><br>Leave encashment is given at the retirement.                                                              |
|                                        | <b>9.Sponsorship:</b> Sponsorship for attending seminar, conferences, project competition, sports activities                             |
|                                        | <b>10.Group insurance:</b> Provision for group insurance for safety.                                                                     |

### 6.4 Financial Management and Resource Mobilization

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

The institution gets statutory financial audit conducted by a Chartered Accountant firm as per provisions of Bombay Public Trust Act, 1950 regularly. No internal audit is conducted. The statutory auditors visit institution quarterly and check all the records of the Institution vigorously and scrutinize procedures and policies followed by the institution.

If there are any deficiencies or lacunae pointed out by the auditors or if they require any additional information or explanation, concerned authorities of the institution discuss the requirement with the auditors and comply with it. If any rectification is required the same is carried out expeditiously in consultation with the auditors.

Thus, audit observations are complied with in full on urgent basis.

6.4.2 Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year 2017-18 (not covered in Criterion III)

| Name of the non government funding agencies/ individuals | Funds/ Grants received in Rs. | Purpose |
|----------------------------------------------------------|-------------------------------|---------|
| Nil                                                      | Nil                           | Nil     |
| 6.4.2 Total corpus fund generated : <b>Nil</b>           |                               |         |

| <b>6.5 Internal Quality Assurance System</b>                         |          |                     |            |                        |
|----------------------------------------------------------------------|----------|---------------------|------------|------------------------|
| 6.5.1 Whether Academic and Administrative Audit (AAA) has been done? |          |                     | <b>YES</b> |                        |
| Audit Type                                                           | External |                     | Internal   |                        |
|                                                                      | Yes/No   | Agency              | Yes/No     | Authority              |
| Academic                                                             | YES      | Dr. B.A.T.U, Lonere | YES        | HOD, Committee members |
| Administrative                                                       | YES      | Dr. B.A.T.U, Lonere | YES        | HOD, Committee members |

6.5.2 Activities and support from the Parent – Teacher Association

Periodic meetings are arranged with the parents and teachers

1. To improve performance of the students
2. To improve attendance and discipline.
3. To improve infrastructure.
4. To improve co-curricular activities support etc

6.5.3 Development programmes for support staff

1. Training and workshop on KOHA and Library Automation for Non-Teaching Staff
2. The general health check-up and awareness camp is also arranged in the campus for all teaching and non- teaching staff members.

6.5.4 Post Accreditation initiative(s)

1. Information and Communication Technology (ICT) thrust in teaching learning is to be enhanced.
2. Motivating/facilitating the faculty for intensive application of I.C.T. Internet reference facility in the class rooms.
3. Training and placement activities are to be enhanced by arranging various training courses.

**6.5.5**

- a. Submission of Data for AISHE portal : **Yes**  
 b. Participation in NIRF : **No**  
 c. ISO Certification : **No**  
 d. NBA or any other quality audit : NBA accreditation was done in the year 2006 valid upto 2009.

**6.5.6 Number of Quality Initiatives undertaken during the year**

| <b>Year</b> | <b>Name of quality initiative by IQAC</b>                                                                                                                                                           | <b>Date of conducting activity</b> | <b>Duration (from-----to-----)</b> | <b>Number of participants</b>          |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|------------------------------------|----------------------------------------|
| 2018-19     | Conduction of Academic Administrative Audit.                                                                                                                                                        | June/July 2019                     | June 2018 to June 2019             | All departments                        |
| 2018-19     | FDP201x organized by IIT Bombay. "Foundation program in ICT for education" "Pedagogy for online and blended Teaching Learning process" It emphasized on innovative teaching learning methodologies. | 30 Oct. 2018 to 18 Dec. 2018       | 30 Oct. 2018 to 18 Dec. 2018       | Forty Five participants were benefited |
| 2018-19     | To participate in AISHE                                                                                                                                                                             | 10 Jan 2019                        | 10 Jan 2019                        | Whole Institution                      |
| 2018-19     | Training Courses                                                                                                                                                                                    | Dec 2018                           | 17 Dec 2018 to 05 Jan 2019         | 250 Students                           |
|             | 1. Fundamentals of Basic English<br>2. Aptitude & Softskills Training                                                                                                                               | Aug 2018                           | 1 Aug 2018, 27 Apr. 2019           | 456 Students                           |

| CRITERIONVII –INSTITUTIONAL VALUES AND BEST PRACTICES                                                            |                                                                          |                                                                              |                                                         |                                                           |                      |                                            |
|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------|----------------------|--------------------------------------------|
| 7.1 - Institutional Values and Social Responsibilities                                                           |                                                                          |                                                                              |                                                         |                                                           |                      |                                            |
| 7.1.1 Gender Equity (Number of gender equity promotion program organized by the institution during the year)2018 |                                                                          |                                                                              |                                                         |                                                           |                      |                                            |
| Title of the program                                                                                             |                                                                          |                                                                              |                                                         | Period (from-to)                                          | Participants         |                                            |
|                                                                                                                  |                                                                          |                                                                              |                                                         |                                                           | Male                 | Female                                     |
| 1. Women’s Day                                                                                                   |                                                                          |                                                                              |                                                         | 8th March 2019                                            | 740                  | 681                                        |
| 2. NCC Parade                                                                                                    |                                                                          |                                                                              |                                                         | 15 <sup>th</sup> August 2018                              | 27                   | 18                                         |
| 3. Women’s representation in College Band                                                                        |                                                                          |                                                                              |                                                         | 2 <sup>nd</sup> July to 27 <sup>th</sup> November 2018    | 16                   | 5                                          |
| 4. INFOSYS Industrial Visit, Mysore                                                                              |                                                                          |                                                                              |                                                         | 12 <sup>th</sup> June to 18 <sup>th</sup> June 2019       | 49                   | 51                                         |
| 5. Unnat Bharat Abhiyan                                                                                          |                                                                          |                                                                              |                                                         |                                                           |                      |                                            |
| 6. Virtual Lab development                                                                                       |                                                                          |                                                                              |                                                         | 6 <sup>th</sup> to 11 <sup>th</sup> February 2019         | 6                    | 2                                          |
| 7. TCS Industrial Visit at Bangalore                                                                             |                                                                          |                                                                              |                                                         | 15th February 2019.                                       | 31                   | 53                                         |
| 7.1.3 Differently abled (Divyangjan) friendliness                                                                |                                                                          |                                                                              |                                                         |                                                           |                      |                                            |
| Items Facilities                                                                                                 |                                                                          |                                                                              |                                                         | Yes/No                                                    | No. of Beneficiaries |                                            |
| Physical facilities                                                                                              |                                                                          |                                                                              |                                                         |                                                           |                      |                                            |
| Provision for lift                                                                                               |                                                                          |                                                                              |                                                         |                                                           |                      |                                            |
| Ramp/ Rails                                                                                                      |                                                                          |                                                                              |                                                         | YES                                                       |                      |                                            |
| Braille Software/facilities                                                                                      |                                                                          |                                                                              |                                                         |                                                           |                      |                                            |
| Rest Rooms                                                                                                       |                                                                          |                                                                              |                                                         | YES                                                       |                      |                                            |
| Scribes for examination                                                                                          |                                                                          |                                                                              |                                                         |                                                           |                      |                                            |
| Special skill development for differently abled students                                                         |                                                                          |                                                                              |                                                         |                                                           |                      |                                            |
| Any other similar facility                                                                                       |                                                                          |                                                                              |                                                         |                                                           |                      |                                            |
| 7.1.4 Inclusion and Situatedness                                                                                 |                                                                          |                                                                              |                                                         |                                                           |                      |                                            |
| Enlist most important initiatives taken to address locational advantages and disadvantages during the year       |                                                                          |                                                                              |                                                         |                                                           |                      |                                            |
| Year                                                                                                             | Number of initiatives to address locational advantages and disadvantages | Number of initiatives taken to engage with and contribute to local community | Date and duration of the initiative                     | Name of the initiative                                    | Issues addressed     | Number of participating students and staff |
| 2018-19                                                                                                          | 01                                                                       | 01                                                                           | 7 <sup>th</sup> February 2018, 7 <sup>th</sup> February | Unnat Bharat Abhiyan Initiative of MHRD by Govt. of India |                      | 10- Staff<br>120 – Students                |

|         |    |    |                                 |                     |  |                            |
|---------|----|----|---------------------------------|---------------------|--|----------------------------|
| 2018-19 | 01 | 01 | 2 <sup>nd</sup> February 2018   | Tree plantations    |  | All Boys , Girls and Staff |
| 2018-19 | 01 | 01 | 13 <sup>th</sup> September 2018 | Nirmalya Collection |  | All Boys , Girls and Staff |

#### 7.1.5 Human Values and Professional Ethics

##### Code of conduct (handbooks) for various stakeholders

| Title           | Date of Publication            | Follow up (maximum 100 words each)                                                                          |
|-----------------|--------------------------------|-------------------------------------------------------------------------------------------------------------|
| Code of Conduct | 25 <sup>th</sup> November 2017 | <a href="http://www.mgmcen.ac.in/core-valuesethics.aspx">http://www.mgmcen.ac.in/core-valuesethics.aspx</a> |

#### 7.1.6 Activities conducted for promotion of universal Values and Ethics

| Activity                                 | Duration (from-----to-----)                            | Number of participants |
|------------------------------------------|--------------------------------------------------------|------------------------|
| A course on fundamentals of Good English | 17 <sup>th</sup> Dec.2018 to 26 <sup>th</sup> Dec.2018 | 65                     |

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

|                                                                                                                                                                                                                                                                                                                  |                                                                                 |     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----|
| 1. “Unnat Bharat Abhiyan” : Our institute is selected in ‘Unnat Bharat Abhiyan’, a program of MHRD, Govt of India. We adopted 5 villages. In this program, we completed household survey of 2 villages and identified the problems in rural areas. Students and faculty members are contributes in this abhiyan. | Starts from Oct 2018 and will be continue for longer duration                   | 14  |
| 2. Our institute has undertaken the awareness of renewable energy among student community. Numerous students participated in this program and assembled the “Solar Lamp”                                                                                                                                         | 2019                                                                            | 108 |
| 3. Induction Program for FY Students                                                                                                                                                                                                                                                                             | 1 <sup>st</sup> August 2018 and 7 <sup>th</sup> to 9 <sup>th</sup> January 2019 | 282 |

## 7.2 Best Practices

Describe at least two institutional best practices

Upload details of two best practices successfully implemented by the Institution as per NAAC format in your institution website, provide the link

### **Activity1 – One Faculty one Alumni**

**Objective** – One faculty will make good relations with one Alumni which in turn will benefit to our students

#### **Description:-**

1) Our Alumni Mr Manoj Tambde, helped us for getting the Field training to students in Ambuja Cement, Latur and provided the training to 10 students in 2018.

2) Our Alumni Mr. Sameer Bahalkar conducted one day workshop on “sustainable development and Rain water harvesting” on 13<sup>th</sup> April 2018

Internship – 2018

1) Final year student were sent to field training on different ongoing construction site.

2) Students done the Infosys online course

3) Students done the Aptitude, communication skill development and C++ training in by Universal Education

2) Students done the Q -CAD and Science Lab spoken tutorial programme in Department.

1. MOOCS activity is conducted effectively. 4 courses were organized and 163 students benefitted from it.

### **Activity 2: Execution of InfyTQ Certification Program for final Year students**

**Objective:** To make students learn the courses designed by the industry and solve the problems and get the recruited MNCs with higher package.

#### **Description:**

Infosys has launched four courses under InfyTQ certification namely Fundamentals of Programming using Python, OOPS using Python, Data structure and Algorithm using Python and SQL and DBMS.

We have considered this certification as a part of internship. We made mandatory to students of CSE, IT and ECT to learn these courses which are designed as per the industry requirements from 10<sup>th</sup> June 2019 to 8<sup>th</sup> July 2019. Interested students Civil Engineering and Mechanical engineering have learning. Time table is designed especially for these courses and computer systems are allotted to students so that they can do hands on practice.

Assigned one mentor to a group of 20-25 students to help them solve challenging assignments and clear their doubts. All the mentors have monitored the learning progress of their mentees and guided them if they face any problem. We ensured that all the students are studying these courses and maintained the record of the attendance.

Students have appeared for the certification exam in allotted slots at different centers in Hyderabad, Pune and Mumbai in the months of July-August 2019

3 students have cleared the certifications exam with score 83, 82 and 72 and faced the interview successfully as result of this all students have received job offer at Infosys on 14<sup>th</sup> August 2019. 2 students have appeared for next level of certification and grabbed job offer with package 8LPA on 4<sup>th</sup> October 2019.

## 7.3 Institutional Distinctiveness

### Induction Program for FY students

MGM's college of Engineering, Nanded has successfully conducted an induction program for the UG students entering the institution right at the start to make the students feel comfortable in their new environment, open them up, set a healthy daily routine, create bonding in the batch as well as between faculty and students, develop awareness, sensitivity and understanding of the self people around them, society at large and the nature.

The following activities have been successfully organized in which the students were fully engaged for the entire duration of the program.

#### 1. Physical activity:

This involves daily routine of physical activities where students are came on field in the morning and performed YOGA, meditation and Marshall Arts for self defense. To execute these activities successfully Shri Chandrakant Patil who is distinguished YOGA instructor in the town and a group of his 10 colleagues were invited. They taught the students how to practice YOGA in daily life besides, Marshall arts related activities were conducted by Shri Vikrant Khedkar and his Colleagues efficaciously. During these activities the instructor told the students significance of Marshall Arts and self defense.

#### 2. Creative Arts:

To develop a sense of aesthetics and to enhance creativity which would hopefully flow in to engineering design, an expert teacher Shri S. D. Mahamune, Lecturer, Dept of Fine Arts, MGM's College of Fine Arts, Nanded engaged activities related to development of Fine Arts skills. To take care of singing, especially classical vocal, carped am meditation, music for improved focus, stress management, Ghazal gayaki Prof Vaibhav Pande, Master of performing arts, Mumbai was invited to train the students.

#### 3.Universal Human Values

Universal Human Values enable the students to explore oneself and allow one to experience the joy of learning, stand up to peer pressure, take crucial decisions, be aware of relationships with colleagues and supporting staff in the hostel and department, be sensitive to others, etc. Need for character building has been underlined earlier. A module in Universal Human Values provides the base. The above activities were very well introduced & practiced under the guidance of Mr. Baswaraj Hooli, Senior Advisor, CDAC, Pune, Mrs. Shaila Hooli, Wipro Technologies, Pune and Mr. Sagar S. Lalka., Founder, Motivational Speaker, grooming Expert of Prayyaas Foundation. To continue with the efforts made by the experts, the mentor faculties from the institute are conducting activities like group discussion, Human values discussion, building relationship with teachers and fellow colleagues

## **1. Literacy Activity**

It is said as exercise is to body reading is to mind. Reading helps the students to expose new things, information and new ways to resolve problems. It helps the students grow mentally, emotionally and psychologically. Habit of reading increases the students' knowledge and makes them smarter. It helps the students to develop critical and analytical thinking. As a part of making the students accustomed to reading certain activities such as newspaper reading, story reading and inspirational article reading were conducted during induction program.

- i) Bharatratna Dr. Babasaheb Ambedkar Messias of untouchables / by Shri Sheshrao Chavan.
- ii) Lost hero a biography of Subhash Chandra Bose / Mihir Bose.
- iii) Lata Mangeshkar a Biography /Raju Bharatan.
- iv) Lokamanaya Tilak father of Indian unrest and maker of modern India/ Tahmankar D.V.
- v) Selected works of Mahatma Gandhi an autobiography (vol.1 to 6) /M.K.Gandhi.
- vi) Raman and his effect / G. Venkataraman.
- vii) Wings of fire / A.P.J. Abdul Kalam.
- viii) Thoughts of mahatma (vol.1 to 5) / K.S. Bharati.
- ix) Swami Vivekananda / Amiya P. Sen.
- x) Dhirubhai Ambani The man behind reliance /K. Bhushan G. Katyal

As writing is the primary basis upon which one's work, learning, and intellect is judged. Writing equips students with communication and thinking skills. It plays a significant role in making thinking and learning visible and permanent. Writing fosters the ability of students to explain and refine their ideas to others. To encourage the students' writing skills the activities such as essay writing, idea expansion, letter writing, situation narration were conducted during the induction program and are continued. The faculties of English and communication Skills are constantly helping the students to learn more and more.

Students are made to participate and interact amongst the fellow colleagues by arranging debate competitions. During the whole induction program, debate events were successfully conducted where in students have shown active interest. The same activity is now being practiced regularly under the mentorship of the faculties of communication skills.

## **2. Proficiency Modules**

Students experience a cultural change when they join a professional college. This applies more to Engineering. Though they experience it, they would not be aware of the same and hence take more time to adjust to the new environment. They would need to be made aware of the cultural difference and guided right in the beginning so that they will get the advantage of the guidance for shaping their future. It is about understanding the skills and proficiency needed to be successful engineer in the global environment – A Global Engineer.

The awareness about Industrial economy to knowledge economy will give them an idea about where we as engineering graduates are moving towards and the skills and proficiency that the new economy is demanding. The needs of knowledge economy are very different from the Industrial economy which needs to be addressed in the education. The need is to move from just knowledge acquisition and application to knowledge creation

## **6. Lectures by Eminent Personalities**

Lectures of Eminent personalities connected with society and public life have been arranged for the students. For first year engineering students, the lectures by the following eminent personalities had been arranged during the induction program and this is not final destination, in future such lectures will be arranged continuously.

- i) Dr. Mrs. Vrushali Kinhalkar (MD Gynecology, MS Human Psychology )
- ii) Dr. Mohit Solapurkar (MBBS, MD, Psychiatrist)
- iii) Mr. Mahesh Patil (Secretary, Committee of Education Draft)
- iv) Prof. Mahesh Mahamune (MFA, Drawing & Painting)
- v) Mr. Vaibhav Pande (Master of Performing Arts, Mumbai), President, ISE, Director, The Musical Fire, Conducts 'Carpe Diem Meditation', Music for improved focus and sharper memory of my child, hindi-urdu Ghazal Gayaki.
- vi) Mr. S. P. Rao Borde, Dean, students affairs and industry interactions JSPM Group of Institution of Pune, Global Intellect Award 2018 in the Category of Student Empowerment, Best TPO award in the category of Innovative Placement Practices from Erudite, Career Guru Award, Chairman of federation of training and placement officers, Pune district
- vii) Mr. Sagar S. Lalka, Faculty , University of Pune, 'Prayyaas' Foundation, providing career guidance to students yearning for a guiding force in the form of educational consultant, or being the voice for their guidance in the form of motivational speaker, conducts 'grooming and training' sessions.
- viii) Mr. Vikrant Khedkar (Marshal Arts, gives training of marshal arts to CRPF & Police Personnel)
- ix) Dr. Shambhunath Kahalekar (M.Tech, Ph.D. IIT Roorkee)
- x) Mr. Chandrakant Patil (Well Known Yoga Teacher)
- xi) Mrs. Shaila Hooli (Wipro Technologies, Pune)
- xii) Mr. Basawraj Hooli ( M.Tech CS& E, IIT Bombay, Senior Advisor, CDAC, Pune)
- xiii) Swami Swatmanand (Completed the Vedanta Course from IIT, Pawai, An Acharya, Chinmaya Mission- South Mumbai, Director, All India Chinmaya Yuva Kendra )

### Schedule of Lectures by Eminent Personalities

|                 |                                        |                                                   |
|-----------------|----------------------------------------|---------------------------------------------------|
| 14/08/2019      | Dr.Mrs.Vrushali Kinhalkar              | Aarogya                                           |
| 16/08/2019      | Dr.Mohit Solapurkar                    | Stress Management                                 |
| 17/08/2019      | Mr. Mahesh Patil (10.30 TO 12.30)      | A way to Career                                   |
|                 | Prof. Mahesh Mahamune (1.00 to 3.00)   | Fine Arts                                         |
| 19/08/2019      | Mr.Vaibhav Pande (10.30 TO 12.30)      | Singing                                           |
|                 | Prof. Mahesh Mahamune (1.00 to 3.00)   | Fine Arts                                         |
| 20/08/2019      | Prof. S.P. Rao Borde (IPO, JSPM)       | Placement Opportunities                           |
| 21/08/2019      | Mr. Sagar Lalka (10.30 TO 5.30)        | Persona Building, Life Style Mgt. & Career Design |
| 22/08/2019      | Shri. Khedkar Vikrant (7.00 to 9.00)   | Self Defence                                      |
|                 | Dr. Kahalekar S.G.                     | Personality Development                           |
| 24/08/2019      | Shri. Chandrakant Patil (7.00 to 9.00) | Yoga                                              |
|                 | Swami Swatmanand                       | Happiness & Success                               |
| 26 & 27/08/2019 | Mr. Baswraj Hooli & Mrs. Shaila Hooli  | Essence Of Engineering                            |

## **2. Workshop On “Web Development Using Python (Django)”**

Our CSI-Student Branch has planned to organize its first ever workshop on web development using python in August-2019. It will be a 3-days hands-on workshop, mainly focusing on practical implementation of Django framework.

Django is one of the most popular Python frameworks, and it's quite easy to learn. It is a high-level Python Web framework that encourages rapid development and clean, pragmatic design. Django's primary goal is to ease the creation of complex, database-driven websites.

Students are familiar with basic python and this workshop would introduce the web development aspect of python. As Django is mainly used for the development of web and mobile applications owing to number of reasons

such as,

- The framework of Django is rich in templates and libraries there by helping natural growth and connectivity of application or website.
- Django is used by Pinterest, Face book, The Washington Post, Instagram etc.
- More than 3000 packages and utilities are available for Django.

This workshop would be conducted by experienced and professional trainers.

Also this workshop would add a feather to student’s resume and can be helpful in developing their tec-projects.

- **Workshop On “IOT- Using Arduino”**

Our student branch would organize it’s second workshop on Internet of Things using Arduino. It would be scheduled in October-2019. It would be a 2-days workshop conducted by professionals. Students would be provided with kits of Arduino, sensors and other required hardware components.

Nowadays a new emerging technology is Internet of Things (IoT).

Arduino is an open-source electronics platform based on easy-to-use hardware and software. In IoT project, all the physical objects (things) are connected together using internet infrastructure. Arduino board is one of the most important object in this ecosystem. Arduino is a platform on which you can mount sensors and fetch the sensors data from it. Arduino is a micro controller that can be connected to one or more sensors and help you capture the data or information and then pass it on to processor.

Advantages of arduino:

- Inexpensive - Arduino boards are relatively inexpensive compared to other microcontroller platforms. The least expensive version of the Arduino module can be assembled by hand.
- Cross-platform - The Arduino Software (IDE) runs on Windows, Macintosh OSX, and Linux operating systems. Most microcontroller systems are limited to Windows.
- Simple, clear programming environment - The Arduino Software (IDE) is easy-to-use for beginners, yet flexible enough for advanced users to take advantage of as well. For teachers, it's conveniently based on the Processing programming environment, so students learning to program in that environment will be familiar with how the Arduino IDE works.

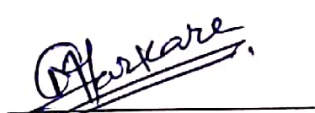
This workshop would be helpful for students in developing robo-tech projects, in understandings various aspects of Machine learning and IOT.

## **8. Future Plans of action for next academic year (500 words)**

- To enhance the effectiveness of teaching-learning process and bring the improvement in university results.
- To go for ISO certification & NBA accreditation.
- To encourage the faculty for submitting the applications for sponsored research projects to various authorities.
- To encourage faculty to attend FDP's / Conferences / Workshops at organizations of repute, like IITs, NIT's etc. for continuous upliftment.
- To encourage the faculty & PG / Research students for more publications in the reputed Journals & Conferences at International & National level.
- To encourage the faculty & students for patents registration.
- To encourage the faculty for resource generation.
- To organize for conferences / FDP's with the help of University funding.
- To provide for additional skill development program with the facilities available in the institute, like HAAS CNC machine, Accurate CMM etc.
- To take care of development of laboratories by adding latest equipments to keep the students abreast with the industrial needs.
- To encourage interdisciplinary projects for Final Year students.
- To enhance activities developing Incubation centre along with Innovation centre.
- To focus on training and placement by providing training courses to the students through industry interaction, developing technological and communication skills etc.
- Including cutting edge technologies in the curriculum to meet the industry requirements and enhance the employability of the students.
- To enhance Industry Institute interaction by arranging Industrial Visits, Guest Lectures by Industry persons and Internship of students.
- To encourage for more no. of MOUs with industry / academia for quality enhancement of the engineering education.
- To get industry sponsored projects.

- To organize for students activities promoting participation in Tech Fest or Technical symposia and other paper presentation contests.
- To organize for student activities like Visio-Tech on campus
- To encourage usage of non-conventional energy by installing more solar panels covering 50% of the total power requirement and replacing all conventional lights by LEDs.
- To strengthen the surveillance system by increasing no. of cameras and networking.
- To focus on co-curricular, sports and personality development activities.
- To strengthen the sports facilities by creating indoor courts for badminton and Table-Tennis, etc.
- To develop the tennis court and the lawn in the cricket ground.
- To construct the alumni centre with guest house facility.
- To furnish the conference hall created in Mechanical Engineering Department.
- To organize training programs for support and non-teaching staff.
- To arrange general health check-up and awareness camp for Teaching, Non-teaching staff members and students.

**Dr.Mahesh G. Harkare**



Signature of the Coordinator, IQAC

**Dr.Geeta S. Lathkar**



Signature of the Chairperson, IQAC

**Abbreviations:**

|      |   |                                          |
|------|---|------------------------------------------|
| CAS  | - | Career Advancement Scheme                |
| CAT  | - | Common Admission Test                    |
| CBCS | - | Choice Based Credit System               |
| CE   | - | Centre for Excellence                    |
| COP  | - | Career Oriented Programme                |
| CPE  | - | College with Potential for Excellence    |
| DPE  | - | Department with Potential for Excellence |
| GATE | - | Graduate Aptitude Test                   |
| NET  | - | National Eligibility Test                |
| PEI  | - | Physical Education Institution           |
| SAP  | - | Special Assistance Programme             |
| SF   | - | Self Financing                           |
| SLET | - | State Level Eligibility Test             |
| TEI  | - | Teacher Education Institution            |