Annual Quality Assurance Report (AQAR)

Submitted to
National Assessment and Accreditation Council (NAAC)
Bangalore - 560 072 (Karnataka)
The Annual Quality Assurance Report (AQAR) of the IQAC

Part - A

AQAR for the year *(for example 2013-14)* 2015-16

### I. Details of the Institution

<table>
<thead>
<tr>
<th>1.1 Name of the Institution</th>
<th>G.H. Raisoni College of Engineering and Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.2 Address Line 1</td>
<td>Gat No. 1200</td>
</tr>
<tr>
<td>Address Line 2</td>
<td>Domkhel Road, Wagholi,</td>
</tr>
<tr>
<td>City/Town</td>
<td>Pune</td>
</tr>
<tr>
<td>State</td>
<td>Maharashtra</td>
</tr>
<tr>
<td>Pin Code</td>
<td>412207</td>
</tr>
<tr>
<td>Institution e-mail address</td>
<td><a href="mailto:ghrcem.pune@raisoni.net">ghrcem.pune@raisoni.net</a></td>
</tr>
<tr>
<td>Contact Nos.</td>
<td>+91-960478785/186</td>
</tr>
</tbody>
</table>

Name of the Head of the Institution: Dr. R.S. Bichkar

Tel. No. with STD Code: +91-960478785/186

Mobile: +91-9657724108

Name of the IQAC Co-ordinator: Prof. Vijaykumar Joshi

Mobile: +91-9881880356

IQAC e-mail address: vijaykumar.joshi@raisoni.net
1.3 **NAAC Track ID** *(For ex. MHC0GN 18879)*  

**MHC0GN15178**

OR

1.4 **NAAC Executive Committee No. & Date:**  

*(For Example EC/32/A&A/143 dated 3-5-2004. This EC no. is available in the right corner- bottom of your institution's Accreditation Certificate)*

**EC(SC)/01/A&A/082 dated 5th May 2014**

1.5 **Website address:**  

**www.ghrcem.raisoni.net**

**Web-link of the AQAR:**  

**ghrcem.raisoni.net/AQAR 2015-16.doc**


1.6 **Accreditation Details**

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Cycle</th>
<th>Grade</th>
<th>CGPA</th>
<th>Year of Accreditation</th>
<th>Validity Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1st Cycle</td>
<td>B</td>
<td>2.30</td>
<td>2014</td>
<td>2019</td>
</tr>
<tr>
<td>2</td>
<td>2nd Cycle</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
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<tr>
<td>3</td>
<td>3rd Cycle</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>4</td>
<td>4th Cycle</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
</tbody>
</table>

1.7 **Date of Establishment of IQAC :**  

**01/01/2012**

1.8 **Details of the previous year’s AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC ((for example AQAR 2010-11 submitted to NAAC on 12-10-2011)**

i. AQAR 2014-15 Submitted to NAAC on **30-06-2015**

ii. AQAR__________________ ________________________ (DD/MM/YYYY)

iii. AQAR__________________ ________________________ (DD/MM/YYYY)

iv. AQAR__________________ ________________________ (DD/MM/YYYY)

1.9 **Institutional Status**

<table>
<thead>
<tr>
<th>University</th>
<th>State</th>
<th>Central</th>
<th>Deemed</th>
<th>Private</th>
</tr>
</thead>
<tbody>
<tr>
<td>Affiliated College</td>
<td>Yes</td>
<td>√</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Constituent College</td>
<td>Yes</td>
<td>No</td>
<td>√</td>
<td></td>
</tr>
<tr>
<td>Autonomous college of UGC</td>
<td>Yes</td>
<td>No</td>
<td>√</td>
<td></td>
</tr>
</tbody>
</table>

Regulatory Agency approved Institution  

Yes √ No |

*(eg. AICTE, BCI, MCI, PCI, NCI)*
**Type of Institution**
- Co-education ✓
- Men
- Women

**Urban ✓**
- Rural
- Tribal

**Financial Status**
- Grant-in-aid
- UGC 2(f)
- UGC 12B
- Grant-in-aid + Self Financing
- Totally Self-financing ✓

1.10 **Type of Faculty/Programme**
- Arts
- Science
- Commerce
- Law
- PEI (Phys Edu)
- TEI (Edu)
- Engineering ✓
- Health Science
- Management
- Others (Specify) NA

1.11 **Name of the Affiliating University (for the Colleges)**

Savitribai Phule Pune University, Ganeshkhind, Pune - 411 007.

1.12 **Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc**

- Autonomy by State/Central Govt. / University NA
- University with Potential for Excellence NA UGC-CPE NA
- DST Star Scheme NA UGC-CE NA
- UGC-Special Assistance Programme NA DST-FIST NA
- UGC-Innovative PG programmes NA Any other (Specify) NA
- UGC-COP Programmes NA
2. IQAC Composition and Activities

2.1 No. of Teachers 07
2.2 No. of Administrative/Technical staff 01
2.3 No. of students 01
2.4 No. of Management representatives 01
2.5 No. of Alumni 01
2.6 No. of any other stakeholder and community representatives Nil
2.7 No. of Employers/Industrialists 02
2.8 No. of other External Experts Nil
2.9 Total No. of members 15

2.10 No. of IQAC meetings held 04
2.11 No. of meetings with various stakeholders: No. Faculty 04
Non-Teaching Staff Students 02 Alumni 02 Others 01

2.12 Has IQAC received any funding from UGC during the year? Yes No √
If yes, mention the amount NA

2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/Workshops/Symposia organized by the IQAC
Total Nos. International National State Institution Level NA

(ii) Themes NA
### 2.14 Significant Activities and contributions made by IQAC

| 1. | Guidelines for improvement of teaching and learning process. |
| 2. | Guidelines for personality development activities and improvement of communication skill. |

### 2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year *

<table>
<thead>
<tr>
<th>Plan of Action</th>
<th>Achievements</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Conduct personality development and communication skill programme.</td>
<td>Improvement in campus placement</td>
</tr>
<tr>
<td>2. Guidelines for improvement of teaching learning process.</td>
<td></td>
</tr>
</tbody>
</table>

* Attach the Academic Calendar of the year as Annexure. Yes [ ] No [ ]

### 2.15 Whether the AQAR was placed in statutory body

| Management | Yes | Syndicate | NA | Any other body | NA |

Provide the details of the action taken

The report was placed before the Board. The Board get following instructions.

1. Improve the campus placement.
2. To strength the teaching Learning Process.
3. Prepare for Autonomous status of college.
Part – B

Criterion – I

1. Curricular Aspects

1.1 Details about Academic Programmes

<table>
<thead>
<tr>
<th>Level of the Programme</th>
<th>Number of existing Programmes</th>
<th>Number of programmes added during the year</th>
<th>Number of self-financing programmes</th>
<th>Number of value added / Career Oriented programmes</th>
</tr>
</thead>
<tbody>
<tr>
<td>PhD</td>
<td>02</td>
<td>02</td>
<td>00</td>
<td>00</td>
</tr>
<tr>
<td>PG</td>
<td>07</td>
<td>07</td>
<td>00</td>
<td>00</td>
</tr>
<tr>
<td>UG</td>
<td>06</td>
<td>06</td>
<td>00</td>
<td>00</td>
</tr>
<tr>
<td>PG Diploma</td>
<td>00</td>
<td>00</td>
<td>00</td>
<td>00</td>
</tr>
<tr>
<td>Advanced Diploma</td>
<td>00</td>
<td>00</td>
<td>00</td>
<td>00</td>
</tr>
<tr>
<td>Diploma</td>
<td>00</td>
<td>00</td>
<td>00</td>
<td>00</td>
</tr>
<tr>
<td>Certificate</td>
<td>00</td>
<td>00</td>
<td>00</td>
<td>00</td>
</tr>
<tr>
<td>Others</td>
<td>00</td>
<td>00</td>
<td>00</td>
<td>00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
<td><strong>15</strong></td>
<td><strong>15</strong></td>
<td><strong>00</strong></td>
</tr>
</tbody>
</table>

| Interdisciplinary      | 00                             | 00                                       | 00                                  | 00                                               |
| Innovative            | 00                             | 00                                       | 00                                  | 00                                               |

1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options
(ii) Pattern of programmes:

<table>
<thead>
<tr>
<th>Pattern</th>
<th>Number of programmes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester</td>
<td>15</td>
</tr>
<tr>
<td>Trimester</td>
<td>00</td>
</tr>
<tr>
<td>Annual</td>
<td>00</td>
</tr>
</tbody>
</table>

1.3 Feedback from stakeholders*  Alumni 275  Parents 171  Employers 31  Students 1660

Mode of feedback  : Online Yes  Manual Yes  Co-operating schools (for PEI) No

*Please provide an analysis of the feedback in the Annexure

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

Yes

**Electronics and Telecommunication Engineering:**
- Examination pattern of BE E&TC has been change to In Sem - 30 marks & End Sem - 70 marks pattern.
- Two subjects are combined in one practical head called as Lab practice for BE E&T as given below:-
  I) LAB Practice I - Computer Network & Microwave Engineering. Subjects are combined
  II) LAB Practice II - VLSI & Elective-I Subjects are combined
  III) LAB Practice III - Mobile Communication & Broadband Communication subjects are combined.
• Industrial visits included in LAB Practice III & LAB Practice IV for BE E&TC.
• Advanced topic included in the final Year BE E&TC subjects which is as given below
  i) **Wireless Network**
     • Subject includes evolving wireless technologies and standards
     • Protocols and services provided by next generation networks
     • Subject knowledge of various access technologies such as 3G, 4G and Wi-Fi
     • Latest topics of Wimax & LTE are included.
  ii) **Mobile Communication**
     • Study of GPRS specification like Bandwidth, channel etc.
     • New additional topic of HSCSD included.
     • Study of details of EDGE technology.
     • Study of HSCSD specification like Bandwidth, channel etc.
     • Study of WCDMA are included.
  iii) **Broadband Communication Systems**
     • The topic of Satellite communication & its link design is included.
  iv) **TVAV**
     • Understanding about new advanced television techniques like stereoscopic TV, 3D TV.
     • Introduction to High resolution TV like 4K and 8K TV.
  v) **PLCs & Automation**
     • Working Principles of SCADA, DCS is covered
     • Detail study of CNC Machines its working and programming are included
  vi) **Computer Network**
     • Additional topic of Zigbee and its applications.
     • Study of N/W security including network security and message integrity.
     • Advanced study of ICMPV6 including IPV6 protocol and header format while previous syllabus had ICMPV4.

2. **Civil Engineering:**

• In semester Exam of 30% marks are assigned for the mid semester exam and 70% marks for the end semester exam in BE Civil.
• New subject introduced in first semester of BE Civil
  Elective I - Advanced Engineering Geology with Rock Mechanics
  Elective II - 1. Integrated Water Resources and Planning
               2. Advanced Geotechnical Engineering
• New subject introduced in second semester of BE Civil
  Elective III - 1. Hydropower Engineering
               2. Air Pollution and control
               3. Finite Element Method in Civil Engineering
  Elective IV - 1. Construction Management
               2. Open Elective Plumbing Engineering
               3. Open Elective Green Building Technology
               4. Open Elective Ferro cement Technology
               5. Open Elective Sub Sea Engineering
               6. Open Elective Wave Mechanics
• Transportation Engineering Subject shifted to first semester of BE Civil.
• Dams and Hydraulic Structures Subject shifted to second semester of BE Civil.
3. Information Technology:

Following are the Updations in the Syllabi of BE-IT

- Examination pattern of BE IT has been change to In Sem - 30 marks & End Sem - 70 marks pattern.
- New Subjects Machine Learning, Advance Database & Software Modeling & Design are included.
- Advanced topics in Information & Cyber Security subject is included

Unit-5: INTRODUCTION TO CYBER SECURITY- Cybercrime and Information security, Categories of Cybercrime, Types of Attacks, a Social Engineering, Cyberstalking.

Unit-6: TOOLS AND METHODS USED IN CYBERCRIME: Proxy servers and Anonymizers, Phishing, Password Cracking, Key-loggers and Spywares.

- New Electives Subjects are introduced

Elective-I
1. Soft Computing
2. Usability Engineering
3. Modern Compilers
4. Parallel Algorithms and Design
5. Cloud computing

Elective -II
1. Business Intelligence
2. Service Oriented Architecture
3. E&M Governance
4. Geo Informatics Systems
5. Natural Language Processing

Elective -III
1. Advanced Graphics and Animation
2. Information Storage and Retrieval
3. IT Enabled Services
4. Advanced Computer Networks

Elective -IV
1. Real Time and Embedded Systems
2. Green IT - Principles and Practices
3. Internet of Things

- Two subjects are combined in one practical head called as Software Lab for BE IT as given below:-
  - Software Lab III - Information & Cyber Security & Machine Learning subjects are combined.
  - Software Lab IV - Software Modelling & Design & Testing Subjects are combined.

4. Mechanical Engineering:

- In semester exam of 30% marks are assigned for the mid semester exam and 70% marks for the end semester exam in BE MECH.
- The revised syllabus is more focused on basics and state of art technology.
- Syllabus revised for mechanical system design, CAD CAM, tribology, robotics for BE MECH.
• In syllabus new subject added Refrigeration and air conditioning, operation research, gas turbine and propulsion, industrial engineering.
• In new syllabus marking scheme is change for robotics, tribology.
• Syllabus revised for Elective-I, Elective-II, Elective III and Elective-IV.

5. **Computer Engineering Department:**

Examination pattern of BE COMP has been change to In Sem 30 Marks & End Sem -70 marks patterns

- Three Subjects are combined in one Practical head called as Computer Laboratory for BE Computer
  1. Computer laboratory I
  2. Computer laboratory II
- Advance Topic include in final year Subjects are given below:
  1. Design & Analysis of Algorithms
  2. Principles of Modern Compiler Design
  3. Smart System Design And Applications
  4. Pervasive Computing
  5. Cyber Security
  6. Business Analytic and Intelligence
  7. Software Design Methodologies & Testing
  8. Data Mining Techniques and Applications

- **List of Elective (All Subject are Advance)**
  - Image Processing
  - Data Mining Techniques And Applications
  - Problem Solving with Gamification
  - Pervasive Computing
  - Embedded Security
  - Multidisciplinary NLP
  - Mobile Computing
  - Web Technology
  - Cloud Computing
  - Cyber Security
  - Business Analytic and Intelligence
  - Operations Research for Algorithms
  - Mobile Applications

6. **MCA Engineering:**

There is revision/upgradation in syllabus of MCA (Engg) in academic year 2013-14. Earlier it was 2008 pattern; now it is 2013 pattern.

- The paper pattern has been changed from 70 (external) and 30 (internal) to 50(external) and 50 (internal) in the year of 2013.
- Earlier the paper pattern was percentage based; now it is credit based.
- In previous syllabus (2008 pattern) there was Advanced Databases subject with data warehousing, data mining along with practical. In revised syllabus (2013 pattern), ADBMS is in SYMCA along with practical. DW, DM and BI are introduced in TYMCA as theory subject.
- The salient features of revised subjects are as below:
  - Banking and Financial Accounting & Management
  - In previous syllabus (2008 pattern), there was Mini project in Semester IV. In revised syllabus (2013 pattern), Mini project in Semester V.
  - In previous syllabus (2008 pattern), there was seminar on recent technology in Semester VI. In revised syllabus (2013 pattern), seminar on Domain of Major Project in Semester VI.
• Syllabus of few subjects has been revised as below:
  ➢ Semester III
    1) Database Management System (DBMS)
       • Unit VI: HBASE
       • Unit IV: Introduction to Banking
       • Unit V: Types of Transactions in Bank
       • Unit VI: Types of IT Systems used by the banks
    2) Object Oriented Analysis & Design (OOAD)
       • UNIT VI: Modelling Architecture in UML
  ➢ Semester IV
    1) Advanced Database Management System (ADBMS)
       • Unit V: XML Databases
       • Unit VI: NoSQL
  ➢ Semester V
    Two new subjects are added in Sem V as follows:
    1) Recent Technologies in IT (RTIT)
    1) Data Warehousing, Data Mining & Business Intelligence (DM, DW & BI)
       • Unit IV: BI Fundamentals
       • Unit V: Business Intelligence Architecture
       • Unit VI: Introduction to BIRT

1.5 Any new Department/Centre introduced during the year. If yes, give details.

Incubation Center introduced to provide space for new age entrepreneurs and young minds to transform their innovative ideas into viable business propositions. Primary objective is to facilitate a platform for a budding entrepreneur to start a business venture with minimum risks. Incubation Centre is special, fully equipped workspaces for new start-ups and entrepreneurs. Incubation Center has following facilities available to students and faculty:
- 6-AC cabins for new start-up
- Internet facility
- Space for meeting/conference
- UPS Power back-up
Criterion – II

II. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

<table>
<thead>
<tr>
<th>Total</th>
<th>Asst. Professors</th>
<th>Associate Professors</th>
<th>Professors</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>204</td>
<td>119</td>
<td>02</td>
<td>06</td>
<td>77</td>
</tr>
</tbody>
</table>

2.2 No. of permanent faculty with Ph.D.

11

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year

<table>
<thead>
<tr>
<th>Asst. Professors</th>
<th>Associate Professors</th>
<th>Professors</th>
<th>Others</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>R</td>
<td>V</td>
<td>R</td>
<td>V</td>
<td>R</td>
</tr>
<tr>
<td>119</td>
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<td>41</td>
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<td>77</td>
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<tr>
<td>-77</td>
<td>-77</td>
<td>204</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

2.4 No. of Guest and Visiting faculty and Temporary faculty

NIL    NIL    NIL

2.5 Faculty participation in conferences and symposia:

<table>
<thead>
<tr>
<th>No. of Faculty</th>
<th>International level</th>
<th>National level</th>
<th>State level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attended</td>
<td>05</td>
<td>03</td>
<td>14</td>
</tr>
<tr>
<td>Presented papers</td>
<td>09</td>
<td>07</td>
<td>14</td>
</tr>
<tr>
<td>Resource Persons</td>
<td>00</td>
<td>01</td>
<td>07</td>
</tr>
</tbody>
</table>

2.6 Innovative processes adopted by the institution in Teaching and Learning:

- Mentor mentee scheme.
- Industrial visits
- Academic Monitoring Scheme
- Teacher Guardian Scheme.
- Conduction of Expert/Guest Lectures for students.
- Innovative projects/research papers by students.
- Lectures of 50 min. for teaching the topic and remaining 10 min for discussion of multiple choice questions.
- Exhaustive question answer bank for every subject.
- Several practice sessions were conducted to cover every possible MCQ.
- Prepared course material specially designed for students in question answer format.
- Compulsorily writing practice conducted in the classroom for every subject.
- Crash course planned for difficult subject like Engg. Mechanics.
- Focused on backlog students.
- For FPL I and II subject hands-on-practice given by expert faculty of 12 Hr.
- Workshops and Guest Lectures for the new technologies as per industry demands.
- Case study based methods for new technologies as per industry demands.
- Hands on practical experience given in labs and industrial visits.
- Attending SPPU faculty development programmes.
- Conducting workshop/seminars/conferences for faculties and students.
2.7 Total No. of actual teaching days during this academic year  

2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

- Inpods online examination for mid sem exam.
- Internal Assessment, IN-SEM Exam, Mid-Sem Exam, Online Exam.
- Online exam multiple choice based questions.
- Extensive syllabus coverage is possible due to the brief time needed per question.
- This system is implemented which give good improvements in the results.
- Institute has arranged online mock test sessions in collaboration with Inpods Inc. mock online test on 4 units of 25 marks for 30 minutes.
- Continuous Assessment for ME courses. Consisting of assignments, class tests, quiz, open boos exam, term papers and short seminars.

2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

<table>
<thead>
<tr>
<th>Title of the Programme</th>
<th>Total no. of students appeared</th>
<th>Distinction %</th>
<th>I %</th>
<th>II %</th>
<th>III %</th>
<th>Pass %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer</td>
<td>124</td>
<td>13.7</td>
<td>56.5</td>
<td>20.16</td>
<td>---</td>
<td>90.32</td>
</tr>
<tr>
<td>Information Tech.</td>
<td>55</td>
<td>12.73</td>
<td>63.64</td>
<td>23.64</td>
<td>---</td>
<td>100</td>
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<tr>
<td>E&amp;TC</td>
<td>117</td>
<td>27.93</td>
<td>53</td>
<td>15.38</td>
<td>---</td>
<td>94.87</td>
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<tr>
<td>Mechanical</td>
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<td>53.33</td>
<td>20</td>
<td>---</td>
<td>87.62</td>
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<tr>
<td>Civil</td>
<td>77</td>
<td>50.64</td>
<td>40.3</td>
<td>0</td>
<td>---</td>
<td>93.51</td>
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<tr>
<td>MCA</td>
<td>54</td>
<td>90.74</td>
<td>5.56</td>
<td>5.56</td>
<td>---</td>
<td>96.30</td>
</tr>
</tbody>
</table>

2.10 Average percentage of attendance of students 69.57%

2.11 Course/Programme wise Distribution of pass percentage:
2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

- Through weekly report on conduct of classes/practical’s and coverage of syllabus.
- Academic monitoring report by Dean Academics/HOD.
- Through Teacher Guardian Scheme.
- Report of Mentor/Mentee for faculty.
- Feedback from stakeholders.
- Course files and laboratory manual prepared by teachers.
- Result analysis.

2.13 Initiatives undertaken towards faculty development

<table>
<thead>
<tr>
<th>Faculty / Staff Development Programmes</th>
<th>Number of faculty benefitted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refresher courses</td>
<td>0</td>
</tr>
<tr>
<td>UGC - Faculty Improvement Programme</td>
<td>0</td>
</tr>
<tr>
<td>HRD programmes</td>
<td>4</td>
</tr>
<tr>
<td>Orientation programmes</td>
<td>7</td>
</tr>
<tr>
<td>Faculty exchange programme</td>
<td>0</td>
</tr>
<tr>
<td>Staff training conducted by the university</td>
<td>13</td>
</tr>
<tr>
<td>Staff training conducted by other institutions</td>
<td>6</td>
</tr>
<tr>
<td>Summer / Winter schools, Workshops, etc.</td>
<td>30</td>
</tr>
<tr>
<td>Others</td>
<td>29</td>
</tr>
</tbody>
</table>

2.14 Details of Administrative and Technical staff

<table>
<thead>
<tr>
<th>Category</th>
<th>Number of Permanent Employees</th>
<th>Number of Vacant Positions</th>
<th>Number of permanent positions filled during the Year</th>
<th>Number of positions filled temporarily</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administrative Staff</td>
<td>03</td>
<td>NIL</td>
<td>NIL</td>
<td>75</td>
</tr>
<tr>
<td>Technical Staff</td>
<td>00</td>
<td>NIL</td>
<td>NIL</td>
<td>36</td>
</tr>
</tbody>
</table>
Criterion – III

3. Research, Consultancy and Extension

3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

1. To promote the research, IQAC made proposals for monetary assistance and incentive research paper presentation/publication in International Conferences and publication by students and faculty members.
2. Faculty given guidance and encouragement for registering for Ph.D and for publishing research papers.
3. At least two compulsory research paper publications for Post Graduate students before submission of project dissertation.
4. Innovative awards and TRPCS (Paper Presentation) Competitions conducted for faculty and PG students.
5. Guidance and motivational workshop and seminars conducted by experts on advances in technologies.
6. Research centre established under Savitribai Phule Pune University for the subject E&TC and Mechanical Engineering.
7. Recognized as SIRO under Department of Science Technologies GOI.
8. Interaction with Armament Research and Development establishment Pashan, Pune under DRDO.

3.2 Details regarding major projects

<table>
<thead>
<tr>
<th>Completed</th>
<th>Ongoing</th>
<th>Sanctioned</th>
<th>Submitted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number</td>
<td>NIL</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Outlay in Rs. Lakhs</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
</tbody>
</table>

3.3 Details regarding minor projects

<table>
<thead>
<tr>
<th>Completed</th>
<th>Ongoing</th>
<th>Sanctioned</th>
<th>Submitted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number</td>
<td>01</td>
<td>00</td>
<td>00</td>
</tr>
<tr>
<td>Outlay in Rs. Lakhs</td>
<td>Rs. 2,25,000/-</td>
<td>00</td>
<td>00</td>
</tr>
</tbody>
</table>

3.4 Details on research publications

<table>
<thead>
<tr>
<th></th>
<th>International</th>
<th>National</th>
<th>Others</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peer Review Journals</td>
<td>42</td>
<td>00</td>
<td>00</td>
<td>42</td>
</tr>
<tr>
<td>Non-Peer Review Journals</td>
<td>07</td>
<td>17</td>
<td>00</td>
<td>24</td>
</tr>
<tr>
<td>e-Journals</td>
<td>74</td>
<td>00</td>
<td>00</td>
<td>74</td>
</tr>
<tr>
<td>Conference proceedings</td>
<td>09</td>
<td>07</td>
<td>00</td>
<td>16</td>
</tr>
</tbody>
</table>

3.5 Details on Impact factor of publications:

<table>
<thead>
<tr>
<th>Range</th>
<th>Average</th>
<th>h-index</th>
<th>Nos. in SCOPUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.03-6.57</td>
<td>3.1</td>
<td>02</td>
<td>05</td>
</tr>
</tbody>
</table>
3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

<table>
<thead>
<tr>
<th>Nature of the Project</th>
<th>Duration Year</th>
<th>Name of the funding Agency</th>
<th>Total grant sanctioned</th>
<th>Received</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major projects</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
</tr>
<tr>
<td>Minor Projects</td>
<td>2013-2016</td>
<td>BCUD, Pune</td>
<td>Rs. 2,25,000</td>
<td>Rs. 2,10,000</td>
</tr>
<tr>
<td>Interdisciplinary Projects</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
</tr>
<tr>
<td>Industry sponsored</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
</tr>
<tr>
<td>Projects sponsored by the University/ College</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
</tr>
<tr>
<td>Students research projects (other than compulsory by the University)</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
</tr>
<tr>
<td>Any other(Specify)</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>2013-2016</strong></td>
<td><strong>BCUD, Pune</strong></td>
<td><strong>Rs. 2,25,000</strong></td>
<td><strong>Rs. 2,10,000</strong></td>
</tr>
</tbody>
</table>

3.7 No. of books published
   i) With ISBN No. 03 Chapters in Edited Books Nil
   ii) Without ISBN No. 01

3.8 No. of University Departments receiving funds from

<table>
<thead>
<tr>
<th>UGC-SAP</th>
<th>CAS</th>
<th>DST-FIST</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DPE</th>
<th>DBT Scheme/funds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nil</td>
<td>Nil</td>
</tr>
</tbody>
</table>

3.9 For colleges

<table>
<thead>
<tr>
<th>Autonomy</th>
<th>CPE</th>
<th>DBT Star Scheme</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>INSPIRE</th>
<th>CE</th>
<th>Any Other (specify)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
</tr>
</tbody>
</table>

3.10 Revenue generated through consultancy Rs. 10,000/-

3.11 No. of conferences organized by the Institution

<table>
<thead>
<tr>
<th>Level</th>
<th>International</th>
<th>National</th>
<th>State</th>
<th>University</th>
<th>College</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number</td>
<td>00</td>
<td>01</td>
<td>00</td>
<td>00</td>
<td>00</td>
</tr>
<tr>
<td>Sponsoring agencies</td>
<td>00</td>
<td>BCUD, Pune</td>
<td>00</td>
<td>00</td>
<td>00</td>
</tr>
</tbody>
</table>

3.12 No. of faculty served as experts, chairpersons or resource persons 10

3.13 No. of collaboration

<table>
<thead>
<tr>
<th>International</th>
<th>National</th>
<th>Any other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
</tr>
</tbody>
</table>

3.14 No. of linkages created during this year 31
3.15 Total budget for research for current year in lakhs:

<table>
<thead>
<tr>
<th>From funding agency</th>
<th>From Management of University/College</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
</tr>
</tbody>
</table>

3.16 No. of patents received this year

<table>
<thead>
<tr>
<th>Type of Patent</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>National</td>
<td></td>
</tr>
<tr>
<td>Applied</td>
<td>03</td>
</tr>
<tr>
<td>Granted</td>
<td>Nil</td>
</tr>
<tr>
<td>International</td>
<td></td>
</tr>
<tr>
<td>Applied</td>
<td>Nil</td>
</tr>
<tr>
<td>Granted</td>
<td>Nil</td>
</tr>
<tr>
<td>Commercialised</td>
<td></td>
</tr>
<tr>
<td>Applied</td>
<td>Nil</td>
</tr>
<tr>
<td>Granted</td>
<td>Nil</td>
</tr>
</tbody>
</table>

3.17 No. of research awards/ recognitions received by faculty and research fellows
Of the institute in the year

<table>
<thead>
<tr>
<th>Total</th>
<th>International</th>
<th>National</th>
<th>State</th>
<th>University</th>
<th>Dist</th>
<th>College</th>
</tr>
</thead>
<tbody>
<tr>
<td>NIL</td>
<td>NIL</td>
<td>NIL</td>
<td>NIL</td>
<td>NIL</td>
<td>NIL</td>
<td>NIL</td>
</tr>
</tbody>
</table>

3.18 No. of faculty from the Institution who are Ph. D. Guides
and students registered under them

<p>| | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>03</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3.19 No. of Ph.D. awarded by faculty from the Institution

<p>| | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

<table>
<thead>
<tr>
<th>JRF</th>
<th>SRF</th>
<th>Project Fellows</th>
<th>Any other</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Nil</td>
<td>Nil</td>
<td></td>
<td></td>
<td>Nil</td>
</tr>
</tbody>
</table>

3.21 No. of students Participated in NSS events:

<table>
<thead>
<tr>
<th>University level</th>
<th>State level</th>
<th>Nil</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>National level</td>
<td>International level</td>
<td>Nil</td>
</tr>
<tr>
<td>Nil</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3.22 No. of students participated in NCC events:

<table>
<thead>
<tr>
<th>University level</th>
<th>State level</th>
<th>NA</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>National level</td>
<td>International level</td>
<td>NA</td>
</tr>
<tr>
<td>NA</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3.23 No. of Awards won in NSS:

<table>
<thead>
<tr>
<th>University level</th>
<th>State level</th>
<th>Nil</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nil</td>
<td></td>
<td></td>
</tr>
<tr>
<td>National level</td>
<td>International level</td>
<td>Nil</td>
</tr>
<tr>
<td>Nil</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
3.24 No. of Awards won in NCC:

<table>
<thead>
<tr>
<th>University level</th>
<th>State level</th>
<th>NA</th>
<th>NA</th>
</tr>
</thead>
<tbody>
<tr>
<td>National level</td>
<td>International level</td>
<td>NA</td>
<td>NA</td>
</tr>
</tbody>
</table>

3.25 No. of Extension activities organized

<table>
<thead>
<tr>
<th>University forum</th>
<th>College forum</th>
<th>Any other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nil</td>
<td>32</td>
<td>02</td>
</tr>
</tbody>
</table>

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

As an Institute social responsibility, institute has organized various activities under NSS and Department of Students Affairs like

- **Visit to orphanage** - Investment In Man Trust (Dnyanesh Balgruha), Phulgaon organized different events and competition for children’s (12th Sept. 2015).
- **Blood Donation Camp**: Blood Donation Campus was organized on “29th September, 2015” in co-operation with Ancod Blood Blank & Apheresis Centre, Aundh, Pune. The response was overwhelming; over 120 students had participated and 84 students donated their blood in the blood donation camp.
- On the auspicious occasion of the birth anniversary of **Rashtrapita Mahatma GANDHI**, 2nd October 2015 has organized Lecture on “**Mahatma Gandhi’s Thought and Social Changes**”. The NSS volunteers were fortunate enough to attend a seminar on “Mahatma Gandhi’s Thought” which was delivered by “Mr. Tripurari Tiwari”.
- The **Special Winter Camp** was organized on 21st Dec. 2015 to 27th Dec. 2015 at Bhawadi Village. In this camp various activities were conducted by NSS volunteers. Students carried out activities like surveying the Village Area (Regarding Hygiene Facilities Available, Personal Hygiene), Created Awareness About Cleanliness in Nearby Areas, Tree Plantation and their benefits, Ladies Empowerment, Village Cleanliness, Importance Of Water Conservation And Health.
- **Swachata Abhiyan**: NSS department undertook one cleanliness drive at Bhawadi village, Pune on 07/08/2016. Over 45 students participated in the drive. The student interacted with the villagers which was followed by the cleaning of the temple and its surroundings.
- **Rasta Suraksha Abhiyan**: Road Safety Programme was organized by NSS department at Bhawadi Village, Pune on 22nd December 2015. Over 35 volunteers, School students and villagers had participated. NSS volunteers prepared charts related to road safety like “Use of Helmet”, “Don’t drink during drive”, Use public transports” etc. Volunteers were spread the message regarding road safety rules in villagers.
- **Plastic Kachara Mukt Abhiyan**: On 13/2/2016 special lecture on “How to Control the Use of Plastics and its Decomposition conducted by Dr. Sanjay Gaikwad (HOD, Chemistry Dept., BJS College, Pune). Total 70 volunteers and students were participated in the programme. NSS volunteers, students and the faculty members were taking part in Swacchata Abhiyan at college campus and nearby area.
 Criterion – IV
4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

<table>
<thead>
<tr>
<th>Facilities</th>
<th>Existing</th>
<th>Newly created</th>
<th>Source of Fund</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Campus area</td>
<td>5 Acre</td>
<td>NIL</td>
<td>--</td>
<td>5 Acre</td>
</tr>
<tr>
<td>Class rooms UG</td>
<td>29</td>
<td>--</td>
<td>--</td>
<td>29</td>
</tr>
<tr>
<td>Class room PG</td>
<td>03</td>
<td>--</td>
<td>--</td>
<td>03</td>
</tr>
<tr>
<td>Laboratories</td>
<td>66</td>
<td>--</td>
<td>--</td>
<td>66</td>
</tr>
<tr>
<td>Seminar Halls</td>
<td>06</td>
<td>--</td>
<td>--</td>
<td>06</td>
</tr>
</tbody>
</table>

No. of important equipments purchased (≥ 1-0 lakh) during the current year: 02

Value of the equipment purchased during the year (Rs. in Lakhs): Rs. 11,88,002/-

4.2 Computerization of administration and library

- RAMS (Raisoni Academic Monitoring System) for academic
- AIMS (Academic Institute Management System) for Purchase activities
- Library Software (Softlib) is used.
- Daily book issue - return
- OPAC for search
- Newly added books entry

4.3 Library services:

<table>
<thead>
<tr>
<th></th>
<th>Existing</th>
<th>Newly added</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Text Books</td>
<td>13598</td>
<td>58.0</td>
<td>453</td>
</tr>
<tr>
<td>Reference Books</td>
<td>5639</td>
<td>25.0</td>
<td>304</td>
</tr>
<tr>
<td>e-Books</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Journals</td>
<td>75</td>
<td>1.50</td>
<td>75</td>
</tr>
<tr>
<td>e-Journals</td>
<td>03</td>
<td>8.50</td>
<td>08</td>
</tr>
<tr>
<td>Digital Database</td>
<td>Nil</td>
<td>-</td>
<td>Nil</td>
</tr>
<tr>
<td>CD &amp; Video</td>
<td>1527</td>
<td>-</td>
<td>240</td>
</tr>
<tr>
<td>Others (specify)</td>
<td>542</td>
<td>-</td>
<td>105</td>
</tr>
</tbody>
</table>
4.4 Technology up gradation (overall)

<table>
<thead>
<tr>
<th></th>
<th>Total Computers</th>
<th>Computer Labs</th>
<th>Internet</th>
<th>Browsing Centres</th>
<th>Computer Centres</th>
<th>Office</th>
<th>Depart-ments</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>Existing</td>
<td>863</td>
<td>29</td>
<td>20 MBPS</td>
<td>01</td>
<td>01</td>
<td>01</td>
<td>07</td>
<td>--</td>
</tr>
<tr>
<td>Added</td>
<td>--</td>
<td>-</td>
<td>20 MBPS</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>06</td>
<td>-</td>
</tr>
<tr>
<td>Total</td>
<td>863</td>
<td>29</td>
<td>40 MBPS</td>
<td>01</td>
<td>01</td>
<td>01</td>
<td>13</td>
<td>-</td>
</tr>
</tbody>
</table>

4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

1. Virtual Laboratory access of COEP through Nodel Centre of GHRCEM is established and training is given to all the faculty members and students.
2. Online ticketing tool.
3. Internet Security Sophos Firewall installation.
4. Academic Institute Management Systems (AIMS) training sessions were provided to faculty members.
5. Monthly training is provided to lab assistant for working with upgraded software and tools.

4.6 Amount spent on maintenance in lakhs:

i) ICT  
   2578405

ii) Campus Infrastructure and facilities  
    4466825

iii) Equipments  
     471854

iv) Others  
    2411794

Total : 7356773
Criterion – V  
5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- IQAC contributes enhancing the awareness about the students support systems through
  - Moral & Ethical Education Programs (Social Skills)
  - Life skills and Soft skills programs.
  - Institutional Social Responsibility
  - Imparting Employability Skills Programs.
  - Professional society chapters for Co-curricular activities, Co-curricular activities, Memberships of Professional Societies by faculty.
  - Students’ Cultural, Sports Clubs and Forums
  - Student Charter and Discipline
- Various activities were conducted to impart the moral, ethical and technical values like,
  - Special guidance scheme under which we are conducting 30 sessions for First Year Engineering students on English grammar and effective communication.
  - Ethical Education Programmes, Guest speech on ethical education, Plastic Nirmulan Abhiyan, Slum area visit near Wagholi area
  - Two Days Workshop on Energy Conversation Systems
  - Seminar on Current Embedded Market and Technology and its indication to the future scope.
  - Activities related to Communication skills and Aptitude.

5.2 Efforts made by the institution for tracking the progression

<table>
<thead>
<tr>
<th>Tracking is done by:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Administrative Office</td>
</tr>
<tr>
<td>2. Registrar, Student Affairs, HODs, Vice Principal, Principal, Central and departmental Committee etc.</td>
</tr>
<tr>
<td>3. Student’s association members department wise ISTE student chapter, Anti-Ragging Committee, College Coordination Committee.</td>
</tr>
</tbody>
</table>

5.3 (a) Total Number of students

<table>
<thead>
<tr>
<th></th>
<th>UG</th>
<th>PG</th>
<th>Ph. D.</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2305</td>
<td>206</td>
<td>11</td>
<td></td>
</tr>
</tbody>
</table>

(b) No. of students outside the state

<p>| |</p>
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>417</td>
</tr>
</tbody>
</table>

(c) No. of international students

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Men</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>2039</td>
</tr>
<tr>
<td></td>
<td>%</td>
</tr>
<tr>
<td></td>
<td>80.8</td>
</tr>
</tbody>
</table>

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Women</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>472</td>
</tr>
<tr>
<td></td>
<td>%</td>
</tr>
<tr>
<td></td>
<td>18.7</td>
</tr>
</tbody>
</table>
5.4 Details of student support mechanism for coaching for competitive examinations (If any)

Apart Training Session
1. To improve the Quantitative Aptitude and Reasoning, Skills of student institute has arranged a progression training session with Apart Training Institute in college campus in very affordable fees.
2. This programme is focusing on mainly quantitative, analytical and soft skill development of students, which helpful prior to facing the interview for recruitment process.
3. This programme had organized for final year students and 137 students were registered for the same.
4. G.H.Raisoni Academy for Human Excellence had organized “REACH – MOCK PI Assessment Programme” for B.E students in March 2016

<table>
<thead>
<tr>
<th>Last Year</th>
<th>This Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td>General</td>
</tr>
<tr>
<td>SC</td>
<td>SC</td>
</tr>
<tr>
<td>ST</td>
<td>ST</td>
</tr>
<tr>
<td>OBC</td>
<td>OBC</td>
</tr>
<tr>
<td>Physically Challenged</td>
<td>Physically Challenged</td>
</tr>
<tr>
<td>Total</td>
<td>Total</td>
</tr>
<tr>
<td>1741</td>
<td>1910</td>
</tr>
<tr>
<td>68</td>
<td>134</td>
</tr>
<tr>
<td>03</td>
<td>00</td>
</tr>
<tr>
<td>309</td>
<td>478</td>
</tr>
<tr>
<td>00</td>
<td>00</td>
</tr>
<tr>
<td>2287</td>
<td>2522</td>
</tr>
</tbody>
</table>

Demand ratio: 1.590
Dropout %: 0.02577

5.5 No. of students qualified in these examinations

<table>
<thead>
<tr>
<th>NET</th>
<th>SET/SLET</th>
<th>GATE</th>
<th>CAT</th>
<th>IAS/IPS etc</th>
<th>State PSC</th>
<th>UPSC</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>NIL</td>
<td>NIL</td>
<td>09</td>
<td>NIL</td>
<td>NIL</td>
<td>NIL</td>
<td>NIL</td>
<td>NIL</td>
</tr>
</tbody>
</table>

5.6 Details of student counselling and career guidance

1. Implementation of Teacher guidance scheme. In this scheme, a batch of 20 students is assigned to each teacher guardian. Teacher guardians discuss the issues of academics, infrastructure, theory and practical subjects, personal etc. Also, parents/guardians are informed about the progress of wards from time to time by Teacher Guardian.
2. Guidance on placement for TE and BE students by experts.
3. Sessions by G.H.Raisoni Academy for Human Excellence on Aptitude and communication skills enhancement.

No. of students benefitted: All
5.7 Details of campus placement

<table>
<thead>
<tr>
<th>On campus</th>
<th>Off Campus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Organizations Visited</td>
<td>Number of Students Participated</td>
</tr>
<tr>
<td>35</td>
<td>321</td>
</tr>
</tbody>
</table>

5.8 Details of gender sensitization programmes

1. Anti-Ragging Committee
2. Anti-Ragging Squad
3. Female Redressal Cell

5.9 Students Activities

5.9.1 No. of students participated in Sports, Games and other events
- State/University level: 98
- National level: Nil
- International level: Nil

No. of students participated in cultural events
- State/University level: 20
- National level: Nil
- International level: Nil

5.9.2 No. of medals /awards won by students in Sports, Games and other events
- Sports: State/University level: 01
- National level: 01
- International level: Nil

- Cultural: State/University level: 02
- National level: Nil
- International level: Nil

5.10 Scholarships and Financial Support

<table>
<thead>
<tr>
<th>Number of students</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Financial support from institution</td>
<td>996</td>
</tr>
<tr>
<td>Financial support from government</td>
<td>757</td>
</tr>
<tr>
<td>Financial support from other sources</td>
<td>NIL</td>
</tr>
<tr>
<td>Number of students who received International/ National recognitions</td>
<td>NIL</td>
</tr>
</tbody>
</table>

5.11 Student organised / initiatives

- Fairs: State/University level: NIL
- Exhibition: State/University level: NIL

5.12 No. of social initiatives undertaken by the students

03

5.13 Major grievances of students (if any) redressed: NIL
Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

Vision: To achieve excellent standards of quality education by keeping pace with rapidly changing technologies and to create technical manpower of global standards with capabilities of accepting new challenges.

Mission: Our efforts are dedicated to impart quality and value based education to raise satisfaction level of all stakeholders. Our strength is directed to create competent professionals. Our endeavor is to provide all possible support to promote research and development activities.

6.2 Does the Institution has a management Information System

Yes, the institution has management information system. Our administrative department looking after student section, examination section, accounts section, admission cell, is maintained by MIS. The Library is also using MIS for its functioning.

6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1 Curriculum Development

- Feedback from stakeholders taken for updation required in curriculum.
- Teaching staff participated in development of curriculum for Savitribai Phule Pune University BE Course.
- Teaching staff nominated for development of curriculum for Savitribai Phule Pune University BE (Final Year) E&TC Course.

6.3.2 Teaching and Learning

- Identification of difficult subjects experienced by students and subjects in which result are low. Arranging extra and expert lectures for these subjects.
- Strict academic monitoring by department HODs and Central Academic monitoring under supervision Dean Academics.
- Mentor mentee scheme introduced to improve the quality of junior teaching staff.

6.3.3 Examination and Evaluation

- Even though university conducts final and end semester examinations, mid semester examinations examination/surprise tests are carried out for internal term work mark as a part of continuous assessment.
- Major Projects of ME students are monitored by RRC of Institute and at department eve by Departmental Research Committees.
6.3.4 Research and Development

- Research Centre established under SPPU.
- Research Advisory Board constituted and research committees formed to systematically carry out research activities.
- RRC and Departmental Research committees ensure quality of ME research projects by taking periodic reviews and giving guidelines for improvement.
- One international conference on “Advances in Mechanical Engineering”.
- Efforts were undertaken to improve industry sponsored projects.

6.3.5 Library, ICT and physical infrastructure / instrumentation

- To increase the number of reference book.
- To add more number of reference manuals.
- Make library database available in the campus.
- Issue extra books to selected deserving students as incentive.
- Add books and magazines pertaining to personality development and competitive examinations like GATE, CAT and Civil services.
- Use CCTV cameras for monitoring of class rooms and labs as part of academic monitoring.
- Faculty incentive schemes for

6.3.6 Human Resource Management

- Detainment of faculty for QIP conducted under AICTE and SPPU.
- Additional incentives for faculties presenting papers in National and International Conferences and publications in reputed journals.
- Conduction of faculty development programme for overall development like Soft Skill, Teaching Methodology etc.
- **Faculty centric**: Motivation/promotion/Incentive for higher studies, Incentive for grants received/other contributions, Financial assistance for paper presentation, On-duty leaves/financial support to participate in seminars and workshops outside the institute, Best Teacher Award, Monetary incentives to functional heads/PG coordinators, Induction programme, Expert lecture for faculty, Laptop and Datacard, Simcards, Loans and advances, accident insurance, concession in fees for self/wards/spouse, subsidized transport and canteen facilities etc.
- **Staff Centric**: Skill Enhancement Training, Pillars, Leave encashment facility, LIC, Accident Insurance, Loans and advances, Concession/Scholarship in fees for self/wards/spouse, Subsidized Canteen facilities and Transport facilities etc.
- **Student Centric**: G. H. Raisoni gold medals for University toppers, Toppers awards, Earn and learn scheme, Add- on courses, Motivational talks and workshops, Forum to interact with alumni, Need base concession in fees, Merit based scholarship, Financial support for participation in technical, cultural and sports activities, Accidental insurance policy, Mediclaim for residential student, Free Health Check-up etc.
6.3.7 Faculty and Staff recruitment

- Faculty and staff recruited in transparent manner by giving advertisement in newspaper as per the guidelines given by SP Pune University before commencement of academic year.
- Faculty selected as per norms and criteria of AICTE.
- If a vacancy arises during the semester it is filled from the local selection panel.

6.3.8 Industry Interaction / Collaboration

- Experts from Industry invited for guidance of major projects/sponsorship.
- Experts are invited for workshop and seminar on specialized and advanced topics.
- Experts are taken on committees like Research Centre Committees and advisors.
- Motivational and personality development corporate trainer invited to deliver capsule and package for faculty development under train the programme.
- MOUs are done with industries for collaborative work.

6.3.9 Admission of Students

- Besides advertisements in the newspaper for admission, the college website highlights the important features.
- College conduct technical project and paper competition “PAROKSHA” for Engineering Diploma students to attract good material for admission.
- Seminars are conducted in Junior Colleges for giving the information about the courses conducted and facilities.
- Application Receipt Centre (ARC) authorized by Directorate of Technical Education, Mumbai (MS).

6.4 Welfare schemes for

<table>
<thead>
<tr>
<th>Type</th>
<th>Teaching</th>
<th>Non teaching</th>
<th>Students</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>05</td>
<td>06</td>
<td>08</td>
</tr>
</tbody>
</table>

6.5 Total corpus fund generated

NIL

6.6 Whether annual financial audit has been done

- Yes [√]
- No [ ]

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

<table>
<thead>
<tr>
<th>Audit Type</th>
<th>External Agency</th>
<th>Internal Authority</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic</td>
<td>Dr. Mansi Patwardhan</td>
<td>Yes</td>
</tr>
<tr>
<td>Administrative</td>
<td>Kirtane and Pandit Associates, Chartered</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Accountant</td>
<td>Prof. MRC Rao</td>
</tr>
</tbody>
</table>
6.8 Does the University/ Autonomous College declares results within 30 days?

For UG Programmes    Yes      |      No
                        |      |      
For PG Programmes      Yes      |      No
                        |      |      

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

Not Applicable

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

Not Applicable

6.11 Activities and support from the Alumni Association

Activities : Under Alumni Association many activities have been taken so that the interaction & collaboration between Alumni, Students and Faculties is possible. Activities like Alumni Meet, Alumni Guidance Lecture, Expert Lecture by Alumni, Coffee Cup Meet, Department level farewell and Alumni Meet have been taken which provides the platform to create strong bonding between Alumni, Students and Faculties.

Support :
1. Alumni Association provides all kind of support to conduct above activities successfully.
2. Alumni Association provides financial support to make the event possible. In addition to that it provides required resources to make the activities successful.
3. Under the roof of Alumni Association database of Alumni information is kept in hard copy as well as in online format.

6.12 Activities and support from the Parent - Teacher Association

Dropout rate of students was discussed in parent teacher association. It plays a very important role and for this department conducted parent meet in mid semester and end semester to have the interaction with parents on progress of their ward.

- Through TG scheme also teacher guardians are in contact with parents, their ward’s attendance, academics, university result, behaviour is informed to parents by TGs. Feedback taken from these meetings conveyed to the concerning authorities for further action.
- They were informed about the class attendance and university result of their wards by respective teacher guardian. Teacher guardian suggested the parents how to help their wards to study and score the marks. The parents gave a very good feedback for the programme as well as about the involvement and dedication of faculty members in all the academics as well as co-curricular activities for the development of student technically and socially.
6.13 Development programmes for support staff

- Monthly important functionaries meetings were conducted.
- Mr. Rajiv Khurana motivational lectures were arranged for the self-development.
- Institute is providing 3 Training Programmes, fully sponsored by management to all the non-teaching staff.
  This Training includes,
  i. Refrigerator Maintenance
  ii. Electrical Maintenance
  iii. MSCIT Course
  iv. ITI

6.14 Initiatives taken by the institution to make the campus eco-friendly

- Tree Plantation and landscaping is done in the college campus area.
- Precipitant are separated from the sewage water and water is reutilized for gardening.
- Use of Solar Power.
- Initiative towards generative awareness among students and staff regarding energy conservation, Swachha Bharat Abhiyan etc.
Criterion – VII

7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

The institute working processes classified into 7 different activities so called as “7 Pillars”. One member is made as care @ institute and in each pillars there were 7 sub-pillars called as share @institute.

Monthly review of the activities under each pillars were evaluated by Principal and ED and whenever it was needed.

The 7 Pillar and sub pillar activities are briefed below:

1. **Resource Optimization**
   a. To ensure better efficiency and optimizing exiting resources like energy, generator, stationary, IT consumables.
   b. Sharing of Human Resource and other infrastructure facilities.
   c. Maintenance and audit of equipment, infrastructure and stationary.

2. **Academic Excellence**
   i. Curriculum bench marking with premier institutes (IIT, NIT, IIT etc), gap analysis and delivery beyond syllabus.
   ii. Effective learning and teaching in class room / lab / fields (Academic scheduling, Lesson plans / Session Plans, and Effective Assessment and Evaluation.
   iii. Modern and Effective teaching learning. [Interactive boards, Digital media, Video Conferencing, MOOCs and various teaching tools and techniques.]
   iv. Staff Development Programs [Pedagogy, Technical Training, Qualification updating, Research & Skill Enhancement etc.]
   v. Compulsory Online Subject wise Quality Learning Circle / Forums intra campus through Mentors.
   vi. Effective Internal Quality Assurance Cell for Academic Audit (Internal & External. Feedback from all Stakeholders)
   vii. Setting of Minimum Quality threshold aligned with Rational Appraisal System

3. **Research and Industry Interface**
   i. Industry Institute Interaction Cell formation for outreach activities like Consultancy (Minimum 2 Nos per department) Industry Advisory Board formation. Joint workshop/ Conferences/ Trainings by Industry (Min. 2 per sem. per deptt.), MoUs with industries for Research, Sponsored Projects, Curriculum delivery, faculty training, and Internship of 2 months for students of all departments.
   ii. Campus Tour of HR Managers, Industry visits / Trade fair / Conferences per department per semester.
   iii. Industry funded labs
   iv. Intellectual Capital Cell for Industry Research
4. Student Value Enhancements
   i. Moral & Ethical Education Programs (Social Skills)
   ii. Life skills and Soft skills programs.
   iii. Institutional Social Responsibility
   iv. Imparting Employability Skills Programs.
   v. Professional society chapters for Co-curricular activities, Co-curricular activities, Memberships of Professional Societies by faculty.
   vi. Students’ Cultural, Sports Clubs and Forums
   vii. Student Charter and Discipline

5. Operational Standards and Quality
   i. Student & Faculty Handbook
   ii. (a) (i) FAQ at all websites for Stake holders (ii) Ticket ageing online system for Students, Faculty and Non-teaching staff
      (b) Response time for all the process periodic disposals & activity chart from 2015-16

6. New Ideas and Practices
   i. Separate Portal for new ideas and periodic review and rewarding best idea.
   ii. Smart Classrooms in every Institute
   iii. GHR TED talk
   iv. Incubation centre and to create ecosystem for entrepreneurship
   v. Open House with all stakeholders
   vi. Staff Welfare Schemes

7. Image Building and Branding
   i. (1) Branding Of Social Media Platform & Increase Reach In Print & Electronic Media.
      (2) Updating College Web Site To Cover All Major Activities And Achievements Of College, Faculty And Students.
   ii. Sponsoring / Organizing Events For Targeting Prospective Students, Company And Introducing Various Awards In Various Fields
   iii. (1) Mou With National & International Universities. (2) Student Exchange Program
   iv. Inter Collegiate Activity (Youth Fest)
   v. Our Expert Faculty As Resource Persons
   vi. Work Based On Social Needs To Connect With The Society At Large
   vii. National & International Accreditations Such As ISO, NAAC, NBA, ABET etc.

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

1. Academic audit for all staff.
2. Mentor mentee scheme:
   A. Reports were submitted to the Principal in the prescribed format on last day of the calendar month.
   B. Minutes of regular meeting were drafted and submitted to the Principal before 7th of the month, CC to Chairman.
7.3 Give two Best Practices of the institution *(please see the format in the NAAC Self-study Manuals)*

<table>
<thead>
<tr>
<th>Best Practice I</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Title of Practice I: Meeting of teachers of Mathematics with engineering teachers and HODs:</td>
</tr>
<tr>
<td>2. The Goal: The goals are to improve the results of subjects which includes mathematics ad base.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Best Practice II</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Title of Practice II: Meeting of teachers teaching same subjects.</td>
</tr>
<tr>
<td>2. The Goal: The goal is to improve the results of subjects concerned with two teachers teaching same subject.</td>
</tr>
</tbody>
</table>

*Provide the details in annexure (annexure need to be numbered as i, ii,iii)*
### Annexure I

**G. H. Raisoni College of Engineering & Management, Wagholi, Pune**  
**Academic Calendar 2015-16**  
**First Semester**

<table>
<thead>
<tr>
<th>Module</th>
<th>S.R. BR. BS, ST, TY PMCA Schedule &amp; POA</th>
<th>ILT</th>
<th>FYROM (KYP)</th>
<th>FYEDA</th>
<th>FG Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Weekly tutorial, requirement planning and other administrative management</td>
<td>234-2015</td>
<td>28/01/2016</td>
<td>12/02/2016</td>
<td>13/03/2015</td>
</tr>
<tr>
<td>2</td>
<td>Foundation of TQM, Case Studies, Project coordinate, Teamwork and Problem solving &amp; other admin in Technology</td>
<td>234-2015</td>
<td>28/02/2016</td>
<td>15/04/2015</td>
<td>14/05/2015</td>
</tr>
<tr>
<td>3</td>
<td>Measurement of overall quality and experimental portfolio</td>
<td>234-2015</td>
<td>28/03/2016</td>
<td>16/06/2015</td>
<td>15/07/2015</td>
</tr>
<tr>
<td>4</td>
<td>Preparation of Call/Email, consent forms, and RMO Team planning</td>
<td>234-2015</td>
<td>28/04/2016</td>
<td>18/07/2015</td>
<td>17/08/2015</td>
</tr>
<tr>
<td>5</td>
<td>First Review of FYROM (KYP) documents as per requirement</td>
<td>234-2015</td>
<td>28/05/2016</td>
<td>20/09/2015</td>
<td>19/10/2015</td>
</tr>
<tr>
<td>6</td>
<td>Lecture on Teamwork, Teamwork Evaluation and Improvement</td>
<td>234-2015</td>
<td>28/06/2016</td>
<td>22/11/2015</td>
<td>21/12/2015</td>
</tr>
<tr>
<td>7</td>
<td>Preparation of feedback and feedback forms and teams</td>
<td>234-2015</td>
<td>28/07/2016</td>
<td>24/12/2015</td>
<td>12/01/2016</td>
</tr>
<tr>
<td>8</td>
<td>Project for All the Semesters</td>
<td>234-2015</td>
<td>15/01/2016</td>
<td>17/02/2016</td>
<td>19/03/2016</td>
</tr>
<tr>
<td>9</td>
<td>Project Evaluation of All Semesters</td>
<td>234-2015</td>
<td>18/03/2016</td>
<td>20/04/2016</td>
<td>22/05/2016</td>
</tr>
<tr>
<td>10</td>
<td>Project Evaluation of All Semesters</td>
<td>234-2015</td>
<td>21/05/2016</td>
<td>23/06/2016</td>
<td>25/07/2016</td>
</tr>
</tbody>
</table>

**Annexure I**

- **Module Details:**
  - **G. H. Raisoni College of Engineering & Management, Wagholi, Pune**
  - **Academic Calendar 2015-16**
  - **First Semester**

- **Module 1:**
  - Weekly tutorial, requirement planning and other administrative management
  - S.R. BR. BS, ST, TY PMCA Schedule & POA
  - ILT
  - FYROM (KYP)
  - FYEDA
  - FG Time

- **Module 2:**
  - Foundation of TQM, Case Studies, Project coordinate, Teamwork and Problem solving & other admin in Technology
  - S.R. BR. BS, ST, TY PMCA Schedule & POA
  - ILT
  - FYROM (KYP)
  - FYEDA
  - FG Time

- **Module 3:**
  - Measurement of overall quality and experimental portfolio
  - S.R. BR. BS, ST, TY PMCA Schedule & POA
  - ILT
  - FYROM (KYP)
  - FYEDA
  - FG Time

- **Module 4:**
  - Preparation of Call/Email, consent forms, and RMO Team planning
  - S.R. BR. BS, ST, TY PMCA Schedule & POA
  - ILT
  - FYROM (KYP)
  - FYEDA
  - FG Time

- **Module 5:**
  - First Review of FYROM (KYP) documents as per requirement
  - S.R. BR. BS, ST, TY PMCA Schedule & POA
  - ILT
  - FYROM (KYP)
  - FYEDA
  - FG Time

- **Module 6:**
  - Lecture on Teamwork, Teamwork Evaluation and Improvement
  - S.R. BR. BS, ST, TY PMCA Schedule & POA
  - ILT
  - FYROM (KYP)
  - FYEDA
  - FG Time

- **Module 7:**
  - Preparation of feedback and feedback forms and teams
  - S.R. BR. BS, ST, TY PMCA Schedule & POA
  - ILT
  - FYROM (KYP)
  - FYEDA
  - FG Time

- **Module 8:**
  - Project for All the Semesters
  - S.R. BR. BS, ST, TY PMCA Schedule & POA
  - ILT
  - FYROM (KYP)
  - FYEDA
  - FG Time

- **Module 9:**
  - Project Evaluation of All Semesters
  - S.R. BR. BS, ST, TY PMCA Schedule & POA
  - ILT
  - FYROM (KYP)
  - FYEDA
  - FG Time

- **Module 10:**
  - Project Evaluation of All Semesters
  - S.R. BR. BS, ST, TY PMCA Schedule & POA
  - ILT
  - FYROM (KYP)
  - FYEDA
  - FG Time

- **Module 11:**
  - Project Evaluation of All Semesters
  - S.R. BR. BS, ST, TY PMCA Schedule & POA
  - ILT
  - FYROM (KYP)
  - FYEDA
  - FG Time

- **Module 12:**
  - Project Evaluation of All Semesters
  - S.R. BR. BS, ST, TY PMCA Schedule & POA
  - ILT
  - FYROM (KYP)
  - FYEDA
  - FG Time

- **Module 13:**
  - Project Evaluation of All Semesters
  - S.R. BR. BS, ST, TY PMCA Schedule & POA
  - ILT
  - FYROM (KYP)
  - FYEDA
  - FG Time

- **Module 14:**
  - Project Evaluation of All Semesters
  - S.R. BR. BS, ST, TY PMCA Schedule & POA
  - ILT
  - FYROM (KYP)
  - FYEDA
  - FG Time

- **Module 15:**
  - Project Evaluation of All Semesters
  - S.R. BR. BS, ST, TY PMCA Schedule & POA
  - ILT
  - FYROM (KYP)
  - FYEDA
  - FG Time

- **Module 16:**
  - Project Evaluation of All Semesters
  - S.R. BR. BS, ST, TY PMCA Schedule & POA
  - ILT
  - FYROM (KYP)
  - FYEDA
  - FG Time

- **Module 17:**
  - Project Evaluation of All Semesters
  - S.R. BR. BS, ST, TY PMCA Schedule & POA
  - ILT
  - FYROM (KYP)
  - FYEDA
  - FG Time

- **Module 18:**
  - Project Evaluation of All Semesters
  - S.R. BR. BS, ST, TY PMCA Schedule & POA
  - ILT
  - FYROM (KYP)
  - FYEDA
  - FG Time

- **Module 19:**
  - Project Evaluation of All Semesters
  - S.R. BR. BS, ST, TY PMCA Schedule & POA
  - ILT
  - FYROM (KYP)
  - FYEDA
  - FG Time

- **Module 20:**
  - Project Evaluation of All Semesters
  - S.R. BR. BS, ST, TY PMCA Schedule & POA
  - ILT
  - FYROM (KYP)
  - FYEDA
  - FG Time

- **Module 21:**
  - Project Evaluation of All Semesters
  - S.R. BR. BS, ST, TY PMCA Schedule & POA
  - ILT
  - FYROM (KYP)
  - FYEDA
  - FG Time

- **Module 22:**
  - Project Evaluation of All Semesters
  - S.R. BR. BS, ST, TY PMCA Schedule & POA
  - ILT
  - FYROM (KYP)
  - FYEDA
  - FG Time

- **Module 23:**
  - Project Evaluation of All Semesters
  - S.R. BR. BS, ST, TY PMCA Schedule & POA
  - ILT
  - FYROM (KYP)
  - FYEDA
  - FG Time

- **Module 24:**
  - Project Evaluation of All Semesters
  - S.R. BR. BS, ST, TY PMCA Schedule & POA
  - ILT
  - FYROM (KYP)
  - FYEDA
  - FG Time
## Academic Calendar 2015-16
### Second Semester

<table>
<thead>
<tr>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Workshop on change, Inovation of Thinking in engineering, Class dissemination, Teacher training and other teaching practices</td>
</tr>
<tr>
<td>HOD meeting, Display of time table, Declaration of student plan, placement, graduation, question bank, final result cooks, viva for MBA, declaration of MCA, Prearrangement of lab and practical departments</td>
</tr>
<tr>
<td>Preparation of student notice, attendance record, RAM for the day</td>
</tr>
<tr>
<td>Committee on Time Table, notice for final year viva, notice of Class Teacher</td>
</tr>
<tr>
<td>Data of classes</td>
</tr>
<tr>
<td>HOD meeting for submission of dept. planning (in b/w) only to engineering, Tooga</td>
</tr>
<tr>
<td>HOD meeting for review of dept. activity, in the current and attendance submission</td>
</tr>
<tr>
<td>Review of time table, project groups(DEP)formulation, Doubt and change of guidance</td>
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<tr>
<td>FIA Committee Plan and revise</td>
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<tr>
<td>Analysis of student exam results (as per BPBU)</td>
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<tr>
<td>HOD meeting for inquiry of dept. activity, results, attendance, Tooga</td>
</tr>
<tr>
<td>Planning for YMPRE 2016</td>
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<tr>
<td>Monitoring assessment methodology &amp; RAMS Academic diary session</td>
</tr>
<tr>
<td>Planning of future development plan Phase 1</td>
</tr>
<tr>
<td>Notice to Online BPBU Exam and HOD meeting letter to parents</td>
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<tr>
<td>HTD meeting to review syllabus and attendance</td>
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<tr>
<td>Utilize BPBU Exam Fe. 11</td>
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<tr>
<td>As per BPBU</td>
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<tr>
<td>KVTAK - Annual Social Gathering</td>
</tr>
<tr>
<td>HOD meeting for review of dept. activity, final year/ final Academic Diary Notice</td>
</tr>
<tr>
<td>Mostly attendance calendar Academic activity. We See, Complete these activities</td>
</tr>
<tr>
<td>MB covered through Online/External resource, RAS, every week contribution due to be continued during regular academic activity.</td>
</tr>
<tr>
<td>HOD meeting, Review of end year test and faculty feedback</td>
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<tr>
<td>Final year Group's Final Exam/ Final Examination, Pre - Contact Presentation</td>
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<td>TROU - In BPBU Exam</td>
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<tr>
<td>As per BPBU</td>
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<tr>
<td>HOD Meeting, Faculty Year validation/RAS entry</td>
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<tr>
<td>Planning for syllabus revision/DOC review</td>
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<tr>
<td>HOD meeting to review of syllabus, student activities</td>
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<tr>
<td>MB Internal Till Examination, Syllabus review and attendance</td>
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<tr>
<td>Online BPBU Exam(s)</td>
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<td>As per BPBU</td>
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<tr>
<td>Student attendance calendar &amp; RAS entry of Academic Diary Review</td>
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<tr>
<td>HSQ meeting and Planning for the next for Academic activity REVISE</td>
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<tr>
<td>Mobility attendance calendar/ class RAS entry Academic Diary Session</td>
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<tr>
<td>Performance of practical and review of lab and examination to present</td>
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<tr>
<td>End of session</td>
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<tr>
<td>HOD meeting for inquiry of dept. activity and discipline</td>
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<tr>
<td>Compilation of final marks to be used in UGCRPG</td>
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<td>As per BPBU</td>
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### Schedule of Date

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<tr>
<th>Date</th>
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<td>01/12/2015</td>
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<td>21/12/2015</td>
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<td>30/01/2015</td>
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<td>18/02/2015</td>
<td>19/02/2015</td>
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<td>20/02/2015</td>
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<td>01/03/2015</td>
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### List of holidays:
- Winter Break (December-January)
- Summer Break (April-May)
- Other (as per institute's academic calendar)
Annexure II

Best Practice - I

The Content:

Mathematics is taught from first semester up to fourth semester Mathematics is taught to Engineering students as basic requirements. Some of the topics and theorems are more useful to a particular branch. For different branches different topics/theorems are required. The subject is so called difficult and results are also generally poor. Poor results in some subjects spoil the statistics of the whole institute.

1. Practice:

   It has been therefore decided to organize meetings of Mathematics teachers with some senior teachers and HOD’s of engineering branches to which Mathematics is taught. One HOD may be nominated by the principal as In-charge of the activity of organizing meetings and maintaining record of minutes. In this meeting, they are expected to discuss and share topics such branch.

   - Requirement of specific topics for each branch.
   - Engineering applications.
   - Some problems from engineering books.
   - Topics on which more stress should be given.
   - Question banks

2. Evidence of Success:

   The basic concept of mathematics got cleared. Result was comparatively improved.

3. Problems encountered & Resources required:

   Adequate time is not available for conducting meet but this was overcome by keeping the time table flexible. Adequate numbers of senior& matured staff is not available since most of the faculty does not have long experience.

Annexure III

Best Practice-2

1. The Context:

   There may be more than one teacher teaching the same subject to various branches. For Physics, Chemistry, Maths, and Engg. Mechanics, Engineering Graphics, Digital Circuits, Computer Architecture, Computer languages and some other subjects from every branch of Engineering. Although Syllabus, Duration, Question paper, University, Library remains same, a lot of variation is observed in results.

   Therefore it has been decided to introduce a system of holding meetings of all such teachers before the commencement of the session and in the first week of every month.

2. Practice:

   One HOD may be nominated by the principal as In-charge of the activity of organizing meetings and maintaining record of minutes.

   In this meeting, they are expected to share discussion on various points such as...

   1. The strategy of teaching the subject.
   2. Question papers of the University.
   3. Question bank to be prepared for students.
   4. Sequence of teaching various units, (Everyone will have a choice to select his or her own sequence),
   5. Text books to be referred by teachers,
   6. Text books to be recommended to the students,
   7. Standards and quality of unit tests, assignments, evaluation strategy,
8. How to achieve and better results,
9. What should be done for slow learners?
10. What can we do for fast learners?
11. Probable expected questions,
12. Topics on which more stress should be given?
13. Knowledge sharing amongst them in friendly manner.

Minutes of regular meeting were drafted and submitted to the Principal and mentor ED before 7th of the month, CC to Chairman.

1. Evidence of Success:
The Result were comparatively improved

2. Problems encountered & Resources required:
Adequate time is not available for conducting meet but this was overcome by keeping the time table flexible. Adequate numbers of senior & matured staff is not available since most of the faculty does not have long experience.

7.4 Contribution to environmental awareness / protection

- Trees planted, green lawn developed
- Posters for environmental awareness displayed.
- Workshop on Energy Conservation
- Re-use of water
- Swachha Bharat Abhiyan

7.5 Whether environmental audit was conducted? Yes [ ] No [√]

7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)

**SWOC ANALYSIS**
GHRCEM Pune, belongs to a very well established strongly emerging educational group. It is strategically located at educational hub of India. The students are coming from rural part of Maharashtra and therefor pose some challenges. On this background SWOC analysis of the institute is given below.

**Strengths:**
- The institute is managed and governed by RGI, a reputed and strong group in engineering education.
- Pragmatic and progressive management, providing financial support for quality of education.
- The infrastructure of the institute is very good for quality teaching learning process.
- Teaching learning process evolved since its inception has matured. The teaching learning process is agile and dynamically adjusts to changing environment.
- Laboratories are well equipped with instruments trainers, software’s and computing facilities.
- Orientation of institute towards Research and emphasis on overall development of faculty for quality through research activity and upgrading knowledge & skills.
8. **Plans of institution for next year**

1. The institute is planning & preparing for permanent affiliation from SP Pune University for E&TC Branch in the next year.
2. The institute wants to obtain UGC 12B status.
3. We are recognized research Centre of Scientific Industrial Research Organization (SIRO) of Govt of India. We will take action to continue further as SIRO research Centre.
4. Strengthen the Research and Incubation Centre activities.
5. To obtain autonomy.

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**Weaknesses:**
- Lack of senior and experienced faculty, particularly doctorates.
- Inadequate industry interaction and low placement record.
- Performance of students in university examinations is just average.
- Institute is located in rural area hence not favoured being far from main city.
- Faculty with higher qualifications as well as good students does not prefer the institute for the reasons of location.

**Opportunities:**
- Pune being educational and IT/Engineering industry hub, therefore, more opportunities for industry interaction and job opportunities to students.
- Pune and nearby Mumbai has R&D Organizations, IIT, DIAT and reputed universities/COEP for research collaboration.
- Industry experts are available for enhancement of skills, updating and upgrading of knowledge of the faculty.
- Undertaking industry based and industry related projects by UG and PG students to improve the quality of projects.

**Challenges:**
- Majority of the students are from rural background and hence lack communication skills. They require tremendous effort to develop communication skills and personality development which is a challenge.
- Students with weak academic base are admitted and raising their level to national/global level is a challenge.
- Hunting. Employing and retaining qualified and experienced faculty is a challenge.

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Name: Prof. Vijaykumar Joshi  
IQAC Coordinator, GHRCEM  

Name: Dr. R. S. Bichkar  
Incharge Director, GHRCEM