



**G. H. Raisoni Educational and Medical Foundations**  
**G. H. Raisoni College of Engineering and Management**  
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# 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

1.1 Name of the Institution

G.H.Raisoni College of Engineering and Management

1.2 Address Line 1

Gat No. 1200

Address Line 2

Domkhel Road, Wagholi,

City/Town

Pune

State

Maharashtra

Pin Code

412207

Institution e-mail address

ghrcem.pune@raisoni.net

Contact Nos.

+91-960478785/186

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. MHCOGN 18879)

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)

1.5 Website address:

Web-link of the AQAR:

For ex. <http://www.ladykeanecollege.edu.in/AQAR2012-13.doc>

### 1.6 Accreditation Details

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

1.7 Date of Establishment of IQAC : DD/MM/YYYY

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 (DD/MM/YYYY)
- ii. AQAR \_\_\_\_\_ (DD/MM/YYYY)
- iii. AQAR \_\_\_\_\_ (DD/MM/YYYY)
- iv. AQAR \_\_\_\_\_ (DD/MM/YYYY)

### 1.9 Institutional Status

University State  Central  Deemed  Private

Affiliated College Yes  No

Constituent College Yes  No

Autonomous college of UGC Yes  No

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	<input type="text" value="07"/>
2.2 No. of Administrative/Technical staff	<input type="text" value="01"/>
2.3 No. of students	<input type="text" value="01"/>
2.4 No. of Management representatives	<input type="text" value="01"/>
2.5 No. of Alumni	<input type="text" value="01"/>
2.6 No. of any other stakeholder and community representatives	<input type="text" value="Nil"/>
2.7 No. of Employers/ Industrialists	<input type="text" value="02"/>
2.8 No. of other External Experts	<input type="text" value="Nil"/>
2.9 Total No. of members	<input type="text" value="15"/>
2.10 No. of IQAC meetings held	<input type="text" value="04"/>
2.11 No. of meetings with various stakeholders: No.	<input type="text" value="02"/> Faculty <input type="text" value="04"/>
	Non-Teaching Staff <input type="text" value="02"/> Students <input type="text" value="02"/> Alumni <input type="text" value="02"/> Others <input type="text" value="01"/>
2.12 Has IQAC received any funding from UGC during the year?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
If yes, mention the amount	<input type="text" value="NA"/>
2.13 Seminars and Conferences (only quality related)	
(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC	
Total Nos.	<input type="text" value="NA"/> International <input type="text" value="NA"/> National <input type="text" value="NA"/> State <input type="text" value="NA"/> Institution Level <input type="text" value="NA"/>
(ii) Themes	<input type="text" value="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.
3. Guidelines for mentor mentee scheme.

## 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 \*

Plan of Action	Achievements
1. Conduct personality development and communication skill programme. 2. Guidelines for improvement of teaching learning process. 3. Guidelines for teacher mentor mentee scheme.	Improvement in campus placement

\* Attach the Academic Calendar of the year as Annexure.

Yes

2.15 Whether the AQAR was placed in statutory body

Yes  No

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

#### I. Curricular Aspects

##### 1.1 Details about Academic Programmes

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

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:

Pattern	Number of programmes
Semester	15
Trimester	00
Annual	00

1.3 Feedback from stakeholders\* Alumni  Parents  Employers  Students   
(On all aspects)

Mode of feedback : Online  Manual  Co-operating schools (for PEI)

*\*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

##### 1. 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&TC 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 & Broad band 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 Updatations 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
  - Computer laboratory I
  - Computer laboratory II
- Advance Topic include in final year Subjects are given below:
  - Design & Analysis of Algorithms
  - Principles of Modern Compiler Design
  - Smart System Design And Applications
  - Pervasive Computing
  - Cyber Security
  - Business Analytic and Intelligence
  - Software Design Methodologies & Testing
  - 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	Total	Asst. Professors	Associate Professors	Professors	Others
	204	119	02	06	77

2.2 No. of permanent faculty with Ph.D.

11
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2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
119	22	2	41	6	16	77	-77	204	1

2.4 No. of Guest and Visiting faculty and Temporary faculty

NIL	NIL	NIL
-----	-----	-----

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	05	03	14
Presented papers	09	07	14
Resource Persons	00	01	07

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.

- ICT facilities are good in institute which is employed for teaching learning. Number of innovative ways are adopted for teaching learning by faculty like:
  - Availability NPTEL resources
  - Use of MOOCs
  - Use of audio visual aids
  - RAMS module (Raisoni Academic Monitoring System module)
  - Learning with multimedia
    - Digital Library
    - Language Lab
    - Virtual Lab
    - Self-assessment and self-learning modules
- Overall teaching learning process is good and adequate in the institute.

2.7 Total No. of actual teaching days during this academic year

180

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

10

02

42

2.10 Average percentage of attendance of students

69.57%

2.11 Course/Programme wise Distribution of pass percentage:

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
Computer	124	13.7	56.5	20.16	---	90.32
Information Tech.	55	12.73	63.64	23.64	---	100
E&TC	117	27.93	53	15.38	---	94.87
Mechanical	105	14.29	53.33	20	---	87.62
Civil	77	50.64	40.3	0	---	93.51
MCA	54	90.74	5.56	5.56	---	96.30

## 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

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

## 2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	03	NIL	NIL	75
Technical Staff	00	NIL	NIL	36

## 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 Palsan, Pune under DRDO.

#### 3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
<b>Number</b>	NIL	NIL	NA	NA
<b>Outlay in Rs. Lakhs</b>	NA	NA	NA	NA

#### 3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
<b>Number</b>	01	00	00	00
<b>Outlay in Rs. Lakhs</b>	Rs. 2,25,000/-	00	00	00

#### 3.4 Details on research publications

	International	National	Others	Total
<b>Peer Review Journals</b>	42	00	00	<b>42</b>
<b>Non-Peer Review Journals</b>	07	17	00	<b>24</b>
<b>e-Journals</b>	74	00	00	<b>74</b>
<b>Conference proceedings</b>	09	07	00	<b>16</b>

#### 3.5 Details on Impact factor of publications:

Range  Average  h-index  Nos. in SCOPUS

**3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations**

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

3.7 No. of books published i) With ISBN No.  Chapters in Edited Books

ii) Without ISBN No.

3.8 No. of University Departments receiving funds from

UGC-SAP  CAS  DST-FIST   
DPE  DBT Scheme/funds

3.9 For colleges  
Autonomy  CPE  DBT Star Scheme   
INSPIRE  CE  Any Other (specify)

3.10 Revenue generated through consultancy

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	00	01	00	00	00
Sponsoring agencies	00	BCUD, Pune	00	00	00

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

3.13 No. of collaboration International  National  Any other

3.14 No. of linkages created during this year



**3.15 Total budget for research for current year in lakhs:**

From funding agency  From Management of University/College

**Total**

**3.16 No. of patents received this year**

Type of Patent		Number
National	Applied	03
	Granted	Nil
International	Applied	Nil
	Granted	Nil
Commercialised	Applied	Nil
	Granted	Nil

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

Total	International	National	State	University	Dist	College
NIL	NIL	NIL	NIL	NIL	NIL	NIL

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

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

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

JRF  SRF  Project Fellows  Any other

**3.21 No. of students Participated in NSS events:**

University level  State level   
 National level  International level

**3.22 No. of students participated in NCC events:**

University level  State level   
 National level  International level

**3.23 No. of Awards won in NSS:**

University level  State level   
 National level  International level

### 3.24 No. of Awards won in NCC:

University level	NA	State level	NA
National level	NA	International level	NA

### 3.25 No. of Extension activities organized

University forum	Nil	College forum	32		
NCC	NA	NSS	10	Any other	02

### 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 (12<sup>th</sup> Sept. 2015).
- **Blood Donation Camp:** Blood Donation Campus was organized on "29<sup>th</sup> September, 2015" in co-operation with Ancod Blood Bank & 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**, 2<sup>ND</sup> October 2015 has organized Lecture on "**Mahatma Gandhi's Thought and Social Changes**". The NSS volunteers were fortunate enough to able to attend a seminar on "Mahatma Gandhi's Thought" which was delivered by "Mr. Tripurari Tiwari".
- The **Special Winter Camp** was organized on 21<sup>st</sup> Dec. 2015 to 27<sup>th</sup> 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 22<sup>nd</sup> 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 Mukta 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 Swachata Abhiyan at college campus and nearby area.

## Criterion – IV

### 4. Infrastructure and Learning Resources

#### 4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	5 Acre	NIL	--	5 Acre
Class rooms UG	29	--	--	29
Class room PG	03	--	--	03
Laboratories	66	--	--	66
Seminar Halls	06	--	--	06
No. of important equipments purchased ( $\geq$ 1-0 lakh) during the current year.	02			
Value of the equipment purchased during the year (Rs. in Lakhs)	Rs. 11,88,002/-			
Others				
Tutorial UG	07	--	--	07
Tutorial PG	13	--	--	13
Workshop	01	--	--	01

#### 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:

	Existing		Newly added		Total	
	No.	Value (in Lakhs)	No.	Value (in Lakhs)	No.	Value (in Lakhs)
Text Books	13598	58.0	453	25.5	19188	83.0
Reference Books	5639	25.0	304	1.0	5943	26.0
e-Books	-	-	-	-	-	-
Journals	75	1.50	75	1.50	75 (Package renewed)	8.50
e-Journals	03	8.50	08	17.0	03	-
Digital Database	Nil	-	Nil	-	Nil	-
CD & Video	1527	-	240	-	1767	-
Others (specify)	542	-	105	-	647	-

#### 4.4 Technology up gradation (overall)

	<b>Total Computers</b>	<b>Computer Labs</b>	<b>Internet</b>	<b>Browsing Centres</b>	<b>Computer Centres</b>	<b>Office</b>	<b>Depart-ments</b>	<b>Others</b>
Existing	863	29	20 MBPS	01	01	01	07	--
Added	--	-	20 MBPS	-	-	-	06	-
<b>Total</b>	<b>863</b>	<b>29</b>	<b>40 MBPS</b>	<b>01</b>	<b>01</b>	<b>01</b>	<b>13</b>	<b>-</b>

#### 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
<b>Total :</b>	<b>7356773</b>

## 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

Tracking is done by:

1. Administrative Office
2. Registrar, Student Affairs, HODs, Vice Principal, Principal, Central and departmental Committee etc.
3. Student's association members department wise ISTE student chapter, Anti-Ragging Committee, College Coordination Committee.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
2305	206	11	-

(b) No. of students outside the state

417

(c) No. of international students

0

Men	No	%
	2039	80.8

Women	No	%
	472	18.7

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
1741	68	03	309	00	2287	1910	134	00	478	00	2522

Demand ratio: **1.590**

Dropout % : **0.02577**

#### 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

No. of students beneficiaries

337

#### 5.5 No. of students qualified in these examinations

NET

NIL

SET/SLET

NIL

GATE

09

CAT

NIL

IAS/IPS etc

NIL

State PSC

NIL

UPSC

NIL

Others

NIL

#### 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

<i>On campus</i>			<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
35	321	27	01

## 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  National level  International level

No. of students participated in cultural events

State/ University level  National level  International level

5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports : State/ University level  National level  International level

Cultural: State/ University level  National level  International level

## 5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	996	49,97,032
Financial support from government	757	4,91,31,712
Financial support from other sources	NIL	NIL
Number of students who received International/ National recognitions	NIL	NIL

## 5.11 Student organised / initiatives

Fairs : State/ University level  National level  International level

Exhibition: State/ University level  National level  International level

5.12 No. of social initiatives undertaken by the students

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 stake holders. 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, Medclaim 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

Teaching	05
Non teaching	06
Students	08

### 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?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	Dr. Mansi Patwardhan	Yes	Dr. R. R. Arakerimath
Administrative	Yes	Kirtane and Pandit Associates, Chartered Accountant	Yes	Prof. MRC Rao

### 6.8 Does the University/ Autonomous College declares results within 30 days?

For UG Programmes      Yes  NA      No  NA

For PG Programmes      Yes  NA      No  NA

### 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 7<sup>th</sup> 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)**

**Best Practice I**

1. Title of Practice I: Meeting of teachers of Mathematics with engineering teachers and HODs:
2. The Goal: The goals are to improve the results of subjects which includes mathematics ad base.

**Best Practice II**

1. Title of Practice II: Meeting of teachers teaching same subjects.
2. The Goal: The goal is to improve the results of subjects concerned with two teachers teaching same subject.

*\*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			
SN	Activity	Scheduled Date			
		SE, TE, BE, SY, TY-MCA (Engg. & Mgt.)	M.E	FY MCA (Engg. & Mgt.)	PE Engg.
1	Workload distribution, requirement planning and stationary/equipment requirement.	28/4/2015	28/4/2015	13/5/2015	13/5/2015
2	Nomination of Timetable, Class teachers, Project coordinator, Teacher guardians and other activity in-charges	30/4/2015	30/4/2015	14/5/2015	14/5/2015
3	Submission of workload distribution and departmental portfolio	6/5/2015	6/5/2015	1/6/2015	1/6/2015
4	Preparation of lab manuals, course files etc. and R&D Targets planning	13/5/2015	13/5/2015	15/6/2015	15/6/2015
5	Update/Review of NBA/NAAC documents as per requirement	15/5/2015	16/5/2015	15/6/2015	16/6/2015
6	Update of Teaching plans/faculty Diary/laboratory equipments-repairs	1/6/2015	1/7/2015	1/7/2015	1/7/2015
7	Update and submission of faculty-wise workload/time table and warm up meeting by Principal	8/6/2015	15/7/2015	15/7/2015	15/7/2015
8	Preparation of students list & attendance record, RAMs - entry of database	1/6/2015	15/7/2015	15/7/2015	15/7/2015
9	Display of time-table, Submission of lecture plan, practical plan, question bank and lab manual Data entry in RAMS database (Internal Academic Verification)	10/6/2015	18/7/2015	17/7/2015	17/7/2015
10	Verification of class rooms, laboratories/trail experiment	12/6/2015	22/7/2015	18/7/2015	18/7/2015
11	Start of classes -Sem I (SE, TE, BE and SY, TY, MCA)	15/6/2015	20/7/2015	3/8/2015	20/7/2015
12	HOD meeting for review of dept. activity	17/6/2015	29/7/2015	5/8/2015	22/7/2015
13	Formation of project groups/ seminars / submission of synopses	19/6/2015	31/7/2015	NIL	NIL
14	Update & review of students list dept.-wise	22/6/2015	3/8/2015	10/8/2015	1/8/2015
15	HOD meeting for review of dept. activities	24/6/2015	5/8/2015	12/8/2015	5/8/2015
16	Analysis of university exam result	As per SPPU	As per SPPU	As per SPPU	As per SPPU
17	Monthly attendance compilation & RAMs / Academic diary Review/R&D	1/7/2015	31/8/2015	31/8/2015	31/8/2015
18	Monthly -journal/reports submission, review of parents letters	15/7/2015	31/8/2015	31/8/2015	31/8/2015
19	HOD meeting to review attendance /RAM/activities / Academic diary	22/7/2015	7/9/2015	2/9/2015	7/9/2015
20	Monthly attendance compilation/ RAMs entry/ Academic Review	1/8/2015	30/9/2015	2/9/2015	30/9/2015
21	Review of Students activities/TGS/RAMS	2/8/2015	17/9/2015	2/9/2015	17/9/2015
22	Independence day celebration	15/8/2015			
23	Online SPPU Exam - I	As per SPPU	-	-	As per SPPU
24	TE/BE In-Sem Exam	As per SPPU	-	-	As per SPPU
25	Compilation of TG's/Mentor Mentee Scheme, Conduction of mid-semester feedback	25/8/2015	24/9/2015	24/9/2015	24/9/2015
26	HOD meeting to review feedback/mid sem result	26/8/2015	30/9/2015	30/9/2015	30/9/2015
27	Monthly -journal/reports submission, review of parents letters	27/8/2015	30/9/2015	30/9/2015	30/9/2015
28	Online SPPU Exam - II	As per SPPU	-	As per SPPU	As per SPPU
29	TRPCS All Departments' Technical activity (if any)	5/9/2015			
30	Review of activities/Alumni/Parents Meet	28/8/2015	1/9/2015	28/8/2015	28/8/2015
31	Monthly attendance compilation & RAMs entry/ Academic Review/R&D	1/9/2015	30/9/2015	30/9/2015	30/9/2015
32	Planning for syllabus coverage/critical subjects	17/9/2015	3/10/2015	3/10/2015	3/10/2015
33	Provisional detention list & HOD meeting to review academics	23/9/2015	7/10/2015	7/10/2015	7/10/2015
34	Compilation of TG's/Mentor Mentee Scheme	24/9/2015	2/10/2015	2/10/2015	2/10/2015
35	Provisional detention list and term end feedback, end Sem exam.	21-24/9/2015	1-3/10/2015	1-3/10/2015	1-3/10/2015
36	HOD meeting to review feedback/mid sem result	30/9/2015	30/10/2015	30/10/2015	30/10/2015
37	End of classes	6/10/2015	07/11/2015	7/11/2015	7/11/2015
38	Mid-semester examination theory and practical/oral exam/seminar, project presentation	12-27/10/2015	As per SPPU	As per SPPU	As per SPPU
39	Th/P/ Examination, Submission, Seminar, Project Presentation	2-27/11/2015	As per SPPU	As per SPPU	-----
40	HOD meeting/initialization of detention List	7/10/2015	11/11/2015	11/11/2015	11/11/2015
41	HOD meeting for review of end-sem activities / Univ. Exams	14/10/2015	18/11/2015	18/11/2015	18/11/2015
42	Compilation of term work marks to SPPU	16/10/2015	20/11/2015	20/11/2015	20/11/2015
43	Relieve the faculty for CAP	As per SPPU	As per SPPU	As per SPPU	As per SPPU
44	Declaration of end Sem-oral/practical exam dates	As per SPPU	As per SPPU	As per SPPU	As per SPPU
45	University backlog In Sem Exam/Theory Exam	As per SPPU	-	As per SPPU	As per SPPU

  

	June					July					August					September					October					November				
Mon	1	8	15	22	29	6	13	20	27	3	10	17	24	31	7	14	21	28	5	12	19	26	2	9	16	23	30			
Tue	2	9	16	23	30	7	14	21	28	4	11	18	25	1	8	15	22	29	6	13	20	27	3	10	17	24	31			
Wed	3	10	17	24	1	8	15	22	29	5	12	19	26	2	9	16	23	30	7	14	21	28	4	11	18	25				
Thu	4	11	18	25	2	9	16	23	30	6	13	20	27	3	10	17	24	1	8	15	22	29	5	12	19	26				
Fri	5	12	19	26	3	10	17	24	31	7	14	21	28	4	11	18	25	2	9	16	23	30	6	13	20	27				
Sat	6	13	20	27	4	11	18	25	1	8	15	22	29	5	12	19	26	3	10	17	24	31	7	14	21	28				
Sun	7	14	21	28	5	12	19	26	2	9	16	23	30	6	13	20	27	4	11	18	25	1	8	15	22	29				
Week	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6		

List of holidays: 16/07/15 (Ramjan ID), 15/08/15 (Independence Day), 17/09/15 (Ganesh Chaturthi), 02/10/15 (Gandhi Jayanti), 22/10/15 (Dasara), 24/10/15 (Maharaja), 21/11/15 (Diwali)

Dr. R. R. Deshmukh  
Dean Academics

Dr. R. S. Bichkar  
Dean R&D

Dr. D. H. Shah  
Principal, GHRCM





G. H. Raisoni College of Engineering & Management,  
Wagholi, Pune - 412207

Academic Calendar 2015-16  
Second Semester



SN	Activity	Scheduled Date			
		SE, TE, BE, SY, TY MCA (Engg.)	M.E	F.E, F.Y MCA (Engg.)	TY MCA (Mgmt.)
1	Workload distribution, Nomination of Timetable In-charges, Class teachers, Project coordinator, Teacher guardians and other activity in-charges	01/12/2015	21/12/2015	01/12/2015	01/12/2015
2	HOD meeting, Display of time table, Submission of lecture plan, practical plan, question bank and lab manual Data entry in RAMS database, Procurement of lab equipments/Library books.	09/12/2015	23/12/2015	09/12/2015	09/12/2015
3	Preparation of students list & attendance record, RAMs - entry of database	10/12/2015	28/12/2015	10/12/2015	10/12/2015
4	Submission of Time Table, Portfolio distribution/activity in-charges/Class Teacher	11/12/2015	29/12/2015	11/12/2015	11/12/2015
7	Start of classes	14/12/2015	11/01/2016	21/12/2015	28/12/2015
5	HOD meeting for submission of dept. planning (Activity in charge, TGS)	16/12/2015	30/12/2015	30/12/2015	30/12/2015
6	HOD meeting for review of dept activity, on-line exams and attendance compilation	23/12/2015	06/01/2016	06/01/2016	06/01/2016
8	Review of time table, project groups/Seminars/Log Books and change of guide	25/12/2015	11/01/2016	11/01/2016	11/01/2016
9	NBA Committee Visit and review	As per NBA dates			
10	Analysis of university exam results (as per SPPU)	As per SPPU			
11	HOD meeting for review of dept activities, results, attendance, TGS	30/12/2015	13/01/2016	13/01/2016	13/01/2016
12	Planning for TRPCS-2016	28/02/2016 (As per RG)			
13	Monthly attendance compilation & RAMs / Academic diary Review	01/01/2016	01/02/2016	01/01/2016	01/01/2016
14	Review of Parent Meeting/Alumni Meet	04/01/2016	04/02/2016	04/01/2016	04/01/2016
15	Review of Online SPPU Exam and HOD meeting/Letter to parents	08/01/2016	08/02/2016	08/01/2016	08/01/2016
16	HOD meeting to review syllabus and attendance	13/01/2016	10/02/2016	13/01/2016	13/01/2016
17	Online SPPU Exam FE, SE	As per SPPU	..	As per SPPU	..
18	ANTARAGNI - Annual Social Gathering	As per decision			
19	HOD meeting for review of dept activities, RAMs entry/ Academic diary Review	20/01/2016	17/02/2016	20/01/2016	20/01/2016
20	Monthly attendance compilation/academic audit, Mid Sem syllabus/lectures coverage	01/02/2016	01/03/2016	01/02/2016	01/02/2016
21	Mid sem test (Theory/practical/projects/seminars), mid sem journal submission to be conducted during regular theory/practical slots.	03-05/02/2016	02-04/03/2016	03-05/02/2016	03-05/02/2016
22	HOD meeting, Review of mid sem test and faculty feedback	10/02/2016	09/03/2016	10/02/2016	10/02/2016
24	Review of Assignments/Guest Lectures/ Trainings, Pre -Seminar Presentations	15/02/2016	14/03/2016	15/02/2016	15/02/2016
25	TE/BE - In-SEM SPPU Exam	As per SPPU	NA	NA	NA
26	HOD Meeting, Faculty Diary verification/RAMs entry	17/02/2016	16/03/2016	17/02/2016	17/02/2016
27	Planning for syllabus coverage/IOAC review	22/02/2016	21/03/2016	22/02/2016	22/02/2016
28	HOD meeting to review of academics, students activities	24/02/2016	23/03/2016	24/02/2016	24/02/2016
29	ME Internal Test/Seminar Presentation, Syllabus review and attendance	29/02/2016	28/03/2016	29/02/2016	29/02/2016
30	Online SPPU Exam - II	As per SPPU	..	As per SPPU	..
31	Monthly attendance compilation & RAMs entry/ Academic diary Review	01/03/2016	01/04/2016	01/03/2016	01/03/2016
32	HOD meeting and academic review	02/03/2016	05/04/2016	02/03/2016	02/03/2016
33	End sem feedback/syllabus coverage/online result analysis/Term end test	16-18/03/2016	7-9/04/2016	16-18/03/2016	16-18/03/2016
34	HOD meeting and Planning for term work submission/seminars/oral	24/03/2016	13/04/2016	24/03/2016	24/03/2016
35	Monthly attendance compilation & RAMs entry/ Academic diary Review	01/04/2016	15/04/2016	01/04/2016	01/04/2016
36	Finalization of provisional detention list and communication to parents	02/04/2016	18/04/2016	04/04/2016	04/04/2016
37	End of classes	02/04/2016	18/04/2016	09/04/2016	09/04/2016
38	HOD meeting for review of term end submissions and detention	06/04/2016	20/04/2016	06/04/2016	06/04/2016
39	Compilation of term work marks to UOP (UG/PG)	As per SPPU	As per SPPU	As per SPPU	As per SPPU
40	Declaration of end sem-oral/practical exam dates	As per SPPU	As per SPPU	As per SPPU	As per SPPU

	December				January				February				March				April				May										
Mon	7	14	21	28	4	11	18	25	1	8	15	22	29	7	14	21	28	4	11	18	25	2	9	16	23	30					
Tue	8	15	22	29	5	12	19	26	2	9	16	23	1	8	15	22	29	5	12	19	26	3	10	17	24	31					
Wed	9	16	23	30	6	13	20	27	3	10	17	24	2	9	16	23	30	6	13	20	27	4	11	18	25						
Thu	10	17	24	31	7	14	21	28	4	11	18	25	3	10	17	24	31	7	14	21	28	5	12	19	26						
Fri	11	18	25	1	8	15	22	29	5	12	19	26	4	11	18	25	1	8	15	22	29	6	13	20	27						
Sat	12	19	26	2	9	16	23	30	6	13	20	27	5	12	19	26	2	9	16	23	30	7	14	21	28						
Sun	13	20	27	3	10	17	24	31	7	14	21	28	6	13	20	27	3	10	17	24	1	8	15	22	29						
Week	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	6

List of holidays: 25/12/16 (Christmas), 24/12/16 (Id-E-Milad), 26/01/16 (Republic Day), 19/02/16 (Chha. Shivaji Maharaj Jayanti), 24/03/16 (Holi Second Day), 08/04/16 (Gudi Padwa), 14/04/16 (Dr. Ambedkar Jayanti)

Dr. R. R. Arakerimath  
Dean Academics

Dr. R. S. Bichkar  
Dean R&D



## 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 Praactice-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 7<sup>th</sup> 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.

**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.

**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.

Name: Prof. Vijaykumar Joshi  
IQAC Coordinator, GHRCEM

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

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