



G.H.Raisoni Educational & Medical Foundation's

G.H.Raisoni College of Engineering and Management,

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ANNUAL QUALITY ASSURANCE REPORT

(AQAR)

Academic Year 2014-15

Submitted to



The Annual Quality Assurance Report (AQAR) of the IQAC

This AQAR covers Academic Year. June15, 2014 to May, 2015

Part – A

1. Details of the Institution

1.1 Name of the Institution

G.H. Raisonni College of Engineering and Management

1.2 Address Line 1

Gat No.1200

Address Line 2

Domkhel Road

City/Town

Wagholi, Pune

State

Maharashtra

Pin Code

412207

Institution e-mail address

ghrcem.pune@raisonni.net

Contact Nos.

+919604787185

Name of the Head of the Institution:

Dr. Dilip D. Shah

Tel. No. with STD Code:

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Mobile

+919657724101

Name of the IQAC Co-ordinator:

Prof. Vijaykumar Joshi

Mobile:

+919881880356

IQAC e-mail address:

vijaykumar.joshi@raisoni.net

1.3 NAAC Track ID(For ex. MHCOGN 18879)

MHCOGN15178

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 05th May

1.5 Website address:

Web-link of the AQAR:

www.ghrcem.raisoni.net

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

ghrcem.raisoni.net/AQAR 2014-15.doc

1.6 Accreditation Details

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

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

01/01/2012

1.8 AQAR for the year (for example 2010-11)

Year 2014-15

1.9 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 _____ (DD/MM/YYYY) – **Not Applicable**

ii. AQAR _____ (DD/MM/YYYY) – **Not Applicable**

iii. AQAR_____ (DD/MM/YYYY) – **Not Applicable**

iv. AQAR_____ (DD/MM/YYYY) – **Not Applicable**

1.10 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 A 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**

1.11 Type of Faculty/Programme

Arts **Science** **Commerce** **Law** **PEI (Phys. Edu.)**

TEI (Edu) **Engineering** **Health Science** **Management**

Others (Specify)

NA

1.12 Name of the Affiliating University (for the Colleges)

Savitribai Phule Pune University,
Ganeshkhind, Pune -411 007

1.13 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 (<i>Specify</i>)	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

Non-Teaching Staff Students Alumni Others

2.12 Has IQAC received any funding from UGC during the year? Yes No

If yes, mention the amount

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

(ii) Themes

2.14 Significant Activities and contributions made by IQAC

Guidelines for improvement of teaching learning process.
Guide lines 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 *

Plan of Action	Achievements
Conduct personality development and communication skill programs Guidelines for improvement of teaching learning process	Improvement in campus placements.

* Attach the Academic Calendar of the year as Annexure.

Attached at Annexure - I

2.15 Whether the AQAR was placed in statutory body

Yes

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.

- Improve the CAMPUS Placement.
- To strengthen the teaching Learning Process.

Part – B

Criterion – I

1. 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
Ph.D	00	02	02	00
PG	05	02	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
Total	11	04	15	00
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* (On all aspects)

Alumni Parents Employers Students

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

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

**Please provide an analysis of the feedback in the Annexure*

Yes. For Third year Engineering

- In semester Exam of 30% marks are assigned for the mid semester exam and 70% marks for the end semester exam.
- Practicals of two subjects combined for Practical exam.
- The revised syllabus is more focused on basics and state of art technology.
- Syllabus revised for database management system, Operating System, Software Engineering, Design Analysis & Algorithm, System Programming, Theory of Computation and Computer Network Technology subject for TE[IT]
- In Syllabus new subject added Web Technology, Multimedia Technology and IT Project Management for TE[IT]
- Syllabus revised for Advance Database System, Elective-I, Elective-II, Elective-III and Elective-IV
- Examination scheme change as 30 marks insem and 70 marks endsem for TE[IT] and BE[IT] for 2012 pattern

Mechanical Engineering:

Important changes

- 1. In-Sem Theory examination will be conducted, approximately one and half month after the commencement of each semester
- 2. In-Sem Theory examination will be based on first three units from Syllabus and will be conducted by the University of Pune
- 3. Total time allotted for In-Sem Theory examination will be One Hour only
- 4. (#) Total time allotted for In-Sem Theory examination (DME-I and DME-II) will be 2 hrs
- 5. Total time allotted for End-Sem Theory examination will be 2 hrs 30 min
- 6. (@) Total time allotted for End-Sem Theory examination (DME-I and DME-II) will be 3 hrs

NEW Subjects Introduced with Revised Syllabus

Semester 1

Hydraulic and pneumatic

Hydraulic and pneumatic a new subject is introduced.

Skill development

Skill development a new subject is introduced for improving skill of students. The main objectives of these subjects are.

- To develop the skill for assemble and disassemble of machines.
- To have knowledge of the different tools and tackles used in machine assembly shop.
- Use of theoretical knowledge in practice.

Heat transfer

- Phenomenon Added Heat Exchangers and Phase Change
- Conduction. Study of Heat Generation and Transient

Theory of Machine II

- In detail study of Step–Less-Regulation (Theoretical Treatment only) & Gyroscope and Synthesis of Mechanism.
- Worm and Worm Wheel More focus on spur gear , Helical, Bevel,

Manufacturing Process –II

1.Manufacturing Process –II a new subject has been introduced

Computer oriented numerical Method

Computer oriented numerical Method replace by name Numerical method and Optimization

Machine Shop-II

Workshop Practice is replace by name Machine Shop-II

Metrology and quality control

New experiment is added

Turbo Machine

- A detail study of Centrifugal Pumps
- Compressor. Separate unit for Centrifugal Compressor and Axial

Seminar

- The Term Work marks for Seminar will be based on the presentation and oral examination according to the new revised syllabus.

Civil:

TE Civil (2012 pattern) Syllabus

Foundation Engineering

- Improved techniques of soil exploitation.
- Study of advanced methods in pile foundation.

Structural Design II

- Advanced knowledge on design of structural members.
- In detail study of Working Stress Method & Limit State Method.
- Improvement in theoretical as well as practical knowledge also.

Advanced Surveying

- In advanced surveying only 1sec theodolite is used.
- Study of interface and tools in GIS software GRAM++ .

Environment I

- Added case study on WTP Design.
- Added study of Ambient air quality monitoring for PM10, PM 2.5, SO2, NOX.
- Introduction to Packaged WTP in townships

Project Management and Engineering Economics

- Advanced techniques of analysis are introduced such as use of Project Management Software's – MS Project / Primavera.
- Introduction to various safety norms.

Structural Design I

- Study of software for analysis of roof truss.
- Design shall be based on IS: 800-2007.

Hydrology

- Application of HEC-RAS for Hydrologic routing.
- **Second Year MCA (Engg).** The assessment has been changed to 50(internal) and 50 (external).
- Earlier the paper pattern was percentage based; now it is credit based.

There are following updations in the syllabi.

Sr. No.	Subjects in New Syllabus (2013 Pattern) Changed Contents of syllabus
1	DBMS Unit 6: HBASE
2	Banking and Financial Accounting & Management Unit 4: Banking, Unit 5:Types of Transactions in Bank, Unit 6: Types of IT Systems used by the banks
3	CN & Information Security (2 nd year Semester IV) Unit 5: Information security management and access management, Unit 6: IT operations management
4	Advanced Web Technology .Net technology
5	Software Engineering (3 rd year Semester V) Unit 6: NOSQL is introduced.
6	Adv DBMS (The subject contains 3 units from ADBMS subject from Semester V) Unit 5: XML, Unit 6: NOSQL
7	Adv Java (Core Java is in the 1 st year Semester II) Unit 4: Introduction to Servlets, Unit 5: Introduction to JSP, Unit 6: Enterprise JAVA Beans: Enterprise Bean overview,

Computer Engineering

Sem-I New addition 2012 Pattern	
1	Database Management Systems Applications
2	Data Communication And Wireless Sensor Networks
3	Computer Forensic And cyber application
4	Theory of Computaion
5	Operating Systems Design
Sem-II New addition 2012 Pattern	
1	Principles of Concurrent and Distributed Programming
2	Computer Networks
3	DigitalSignal Processing Applications
4	Embedded Operating Systems
5	Software Engineering

Yes: Third Year(TE E&TC)

- **Power Electronics**
New addition Introduction to different power devices, their construction, characteristics & turn on circuits.
- **Electromagnetics and Transmission lines**
New addition basic of Antenna and wave propagation
- **Industrial management**
Generation of awareness about various domains in Industrial Management.
Clarification of Quality Management, Financial Management and Project Management.
Learning Human Resource Management as one of the major tasks in industry.
Promotion and motivation of Entrepreneurship among youth.
Get overview of Management Science aspects useful in Industry.
- **Embedded Processor**
The subject focuses on ARM7, ARM9, ARM11 features
Study if details of ARM cortex
ARM7 and ARM cortex with real world processing
DSP controllers and soft cores
- **Employability Skills in Electronics Design**
Electronic circuit function verification with an EDA tool
Highlight the importance and significance of customer specifications/requirements

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

Research Centre under – Savitribai Phule Pune University and Incubation Center the Institution level.
ME civil Engineering new Course started.

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
199	96	02	8	96

2.2 No. of permanent faculty with Ph.D.

10

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
96	42	02	42	08	10	93	-93	199	-1

2.4 No. of Guest and Visiting faculty and Temporary faculty

Nil	Nil	Nil
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2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	1	26	-
Presented papers	42	19	--
Resource Persons	-	-	-

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

<ul style="list-style-type: none"> • Mentor Mentee scheme • Industrial visits • Academic Monitoring scheme. • Teacher Guardian scheme • Conduction of Expert/guest lecturers 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 materials 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 12Hr. • Workshops and guest lecturers for the new technologies as per industry demands • Case study based methods for technical and management subjects. • Hands On practical experience given in Labs & Industrial visits. • Attending SPPU Faculty development programmes • Conducting Workshops/Seminars/conferences for faculties & students
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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 gives good improvement 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 book 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

00

03

120

2.10 Average percentage of attendance of students

69.49%

2.11 Course/Programme wise distribution of pass percentage :

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
BE(Electronics)	47	10.6	44	17	0	0
BE(E&TC)	78	13	37	20	-	-
BE (Computer)	93	12	48	22	11	0
BE (IT)	51	15	19.6	53.9	7.8	0
BE (Mechanical)	67	25.4	41.8	16.5		

BE (Civil)	46	62.22	35.55	0	0	0
MCA(Engg.)	53	66	22	6	2	96

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.
- Feed back from students and faculties.

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programs</i>	<i>Number of faculty benefitted</i>
Refresher courses	-
UGC – Faculty Improvement Programs	1
HRD programs	25
Orientation programs	28
Faculty exchange programs	-
Staff training conducted by the university	-
Staff training conducted by other institutions	4
Summer / Winter schools, Workshops, etc.	38
Others	-

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	69
Technical Staff	NIL	NIL	NIL	33

Criterion – III

3. Research, Consultancy and Extension

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

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	Nil	Nil	NA	NA
Outlay in Rs. Lakhs	NA	NA	NA	NA

3.3 Details regarding minor projects

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

3.4 Details on research publications

	International	National	Others	Total
Peer Review Journals	47	1	-	48
Non-Peer Review Journals	4	2	-	6
e-Journals	37	-	-	37
Conference proceedings	67	6	-	73
Non-Peer Review Journals	-	-	-	-
e-Journals	06	-	-	6
Conference proceedings	01	01	-	2

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				
Minor Projects	2013-2015	BCUD, UGC, PUNE	2,25000/-	1,60459/-
Interdisciplinary Projects	No	NA	NA	NA
Industry sponsored	No	NA	NA	NA
Projects sponsored by the University/ College	No	NA	NA	NA
Students research projects <i>(other than compulsory by the University)</i>	No	NA	NA	NA
Any other(Specify)	2013-14	Savitribai Phule Pune University	Rs. 1,00,000/-	Rs. 34,694/-
National Conference on “Advances in Networking Embedded and Communication System”	2014-15	BCUD	2 Lakhs	
Total			525000	195153

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	01	01	--	--	--
	Sponsoring agencies	Self Financed/SPPU	BCUD	--	--	--

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

3.13 No. of collaborations 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	08
	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	<input type="text" value="Ni"/>	State level	<input type="text" value="Ni"/>
National level	<input type="text" value="Ni"/>	International level	<input type="text" value="Ni"/>

3.22 No. of students participated in NCC events:

University level	<input type="text" value="NA"/>	State level	<input type="text" value="NA"/>
National level	<input type="text" value="NA"/>	International level	<input type="text" value="NA"/>

3.23 No. of Awards won in NSS:

University level	<input type="text" value="Ni"/>	State level	<input type="text" value="Ni"/>
National level	<input type="text" value="Ni"/>	International level	<input type="text" value="Ni"/>

3.24 No. of Awards won in NCC:

University level	<input type="text" value="N"/>	State level	<input type="text" value="NA"/>
National level	<input type="text" value="NA"/>	International level	<input type="text" value="NA"/>

3.25 No. of Extension activities organized

University forum	<input type="text" value="Ni"/>	College forum	<input type="text" value="Ni"/>		
NCC	<input type="text" value="NA"/>	NSS	<input type="text" value="Yes"/>	Any other	<input type="text" value="Ni"/>

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

- Social activity “e-learning for School Students” was organized on 26th July 2014 for the students of V. S. Satav High School, Wagholi. 90 students from V. S. Satav High School, Wagholi participated in this activity. Hands of practice on Basics of computer usage, Microsoft word, Power-point, Excel and paint were being provided to them.

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 Acres	Nil	---	5 Acres
Class rooms UG	31	2	---	33
Class rooms PG	08	---	---	08
Laboratories	74	---	---	74
Seminar Halls	07	----	---	07
No. of important equipments purchased (\geq 1-0 lakh) during the current year.		NIL	NA	Nil
Value of the equipment purchased during the year (Rs. in Lakhs)				
Others (Tutotial) UG	09	---	---	09
Others (Tutotial) PG	12	---	---	12
Workshop	01	---	---	01

4.2 Computerization of administration and library

<ul style="list-style-type: none">• Library Software (Softlib) is used• Daily book Issue – Return• OPAC for Search• Newly added Books Entrv
--

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	17870	67 lakh	400	3 lakh	18433	70 lakh
Reference Books	200		163		362	
e-Books	-	-	-	-	-	
Journals	94 (yearly)	2 lakh	75(yearly)	1.5 lakh	75	1.5 lakh

	subscription)		subscription)			
e-Journals	03	07 lakh	08	17 lakh	08	17 lakh
Digital Database	Nil		Nil		Nil	
CD & Video	671	-	205	-	876	-
Others (specify)	545	22890	161	6762	706	29652

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	863	18	20Mbps	01	01	01	08	---
Added	---	--	---	---	---	---	---	----
Total	863	01	20Mbps	01	01	01	08	----

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

Nil

4.6 Amount spent on maintenance in lakhs :

i) ICT	4,80,000
ii) Campus Infrastructure and facilities	6,23000
iii) Equipments	53800/-
iv) Others	38394/-
Total:	11,95,194/-

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

Special guidance scheme under which we are conducting 30 sessions for First year engineering On English grammar and effective communication.

5.2 Efforts made by the institution for tracking the progression

Tracking is done by:

- Administrative office
- Registrar, student affairs, HOD's, vice principal, principal & Raison committee etc
- Students association members department wise ISTE student cheer body, Anti ragging committee, college coordination committee,

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
2287	191	00	00

(b) No. of students outside the state

418

(c) No. of international students

00

	No	%		No	%
Men	1804	78.88	Women	483	21.12

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
1405	53	00	238	00	1696	1741	68	03	309	00	2287

Demand ratio

1.677

Dropout %

0.00102%

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

Apart Training session

- To improve the Quantitative Aptitude & Reasoning skills of students institute has arranged a professional training session with Apart Training Institute in college campus in very affordable fees.
- This program is focusing on mainly quantitative, analytical & soft skill development of students, which helpful prior to facing the interview for recruitment process.
- This program had organized for final year students & 84 students were registered for the same.

No. of students beneficiaries

5.5 No. of students qualified in these examinations

NET SET/SLET GATE CAT
 IAS/IPS etc State PSC UPSC Others

5.6 Details of student counselling and career guidance

- Teacher Guardian scheme implemented. In this scheme, a batch of 20 students is assigned to each teacher guardian. Teacher guardian informs their ward's progress to parents time to time.
- Guest lecture on T & P for TE and BE class.
- G.H.Raisoni Academy of Human Excellence - Aptitude test conducted.
- Students discuss academic issues, infrastructural issues, subject related problems and personal problems in TG meetings.

No. of students benefitted

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
21	168	07	25

5.8 Details of gender sensitization programmes

- Anti ragging Squeal
- Anti ragging committee
- Women’s grievance 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	280	37,85,341
Financial support from government	880	50325839
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:

- During the student counselling some major issues like water and road problem were raised by the students and these two problems were solved by the management by arranging RO purifiers in whole campus and construction of approach road in liaison with.

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

Vision

To achieve excellent standards of quality of quality of 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 endeavour is to provide all possible supports 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

- Feed back from stake holders taken for updation required in curriculum
- Teaching staff participated in Development of curriculum for Savitri bai Phule Pune University TE (E&TC) Course
- Teaching staff nominated for Development of curriculum for Savitri bai Phule Pune University BE(Final Year) (E&TC) Course to be implemented from

6.3.2 Teaching and Learning

- Identification of difficult subjects experienced by students and subjects in which results 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 marks as a part of continuous assessment.
- Major Projects of ME Students are monitored By RRC of institute and at Department level by Departmental Research Committees.

6.3.4 Research and Development

- Research Centre established under SPUP .
- 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”

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 data base available n 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 line monitoring of class rooms and labs as part of academic monitoring.

6.3.6 Human Resource Management

- Detainment of faculty for QIP conducted under AICTE and SPUP.
- Additional incentives for faculties presenting papers in National and International Conferences and publications in reputed journals
- Conduction of faculty development Program for overall development like Soft Skill, teaching methodology etc .

6.3.7 Faculty and Staff recruitment

- Faculty and staff recruited in transparent manner by giving advertisement in news paper as per the guidelines given by SP University of Pune before the 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 previous selection panel.

6.3.8 Industry Interaction / Collaboration

- Experts from Industry invited for guidance of major projects / sponsorship.
- Experts are invited for workshops 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 capsules and packages for faculty development under train the trainer program .

6.3.9 Admission of Students

- Besides advertisement in the News paper for admission, the college website highlights the important features.
- College conducts 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.

6.4 Welfare schemes for

Teaching	Nil
Non teaching	03
Students	04

6.5 Total corpus fund generated

Nil

6.6 Whether annual financial audit has been done

Yes

 Yes

No

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	Dr.M.S.Sutaone	Yes	Dr.Rachayya
Administrative	Yes	Chartered Accountant	Yes	Prof.Rao

6.8 Does the University/ Autonomous College declare 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:

Departments have felicitated to alumni on the occasion of activities such as parent teacher meet ,farewell, annual gathering ,fresher's party .

Semester wise every department conducts Alumni meet. Alumni's have shown their interest in various aspects

Support:

- 1) Alumni's conducts expert lectures, expert workshops, and seminars to current engineering student.
- 2) Alumni's also deliver motivational lectures, social activities in the institute.

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 conducts 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 & university result of their wards by respective teacher guardian. Teacher guardian suggested the parents how to help their wards to study & score the marks. The parents gave a very good feedback for the programme as well as about the involvement & dedication of faculty members in all the academic as well as co-curricular activities for the development of student technically and socially.
- The parents gave very good feedback for the program as follows: Whatsup group is formed among all teachers & concerned parents.

6.13 Development programmes for support staff

- Monthly important functionaries meetings were conducted.
- Action coach Harish Mehta's motivational lectures are arranged for self development.
- Institute is providing 3 Training Programmes, fully sponsored by Management to all the nonteaching staff.
- This Training Includes
 1. Refrigerator Maintenance
 2. Electrical Maintenance
 3. MSCIT Course

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.

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.

For “Mastering an art of teaching learning”,
On 9th Sept. 2014, some policies were approved by the Hon'ble Chairman. From the point of view of strengthening quality of Teaching Learning Process
Review of all the activities had been taken by Chief Mentor and Hon'ble Chairman from time to time.
The details are as follows:

- It has been decided to introduce Mentor – Mentee scheme in the college
- A group of some junior teachers, particularly new entrants with less experience will be attached to senior teachers for the purpose of guidance.
- Senior teacher is called as 'Mentor' and junior teacher attached to him or her are called as 'Mentee'. It is a relation of Guru-Pupil.
- As far as possible Mentor - Mentee Ratio should be 1:5. However, it should never exceed 1:10 in any case in unavoidable circumstances.
- Principal is expected to work as one of the Mentors so as to give benefit of his or her long standing experience.
- Principal identify Mentor teachers with the principle that Mentor should
 1. be from the same department
 2. be quite a senior person having not less than 5 to 6 years teaching experience.
 3. have a capability to guide Mentee and
 4. have inspiring results of the subjects taught by him or her for last few years.
 5. be a self motivated person and is willing to work as a mentor.

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*)

Best Practice I

1. Title of Practice I: Meeting of teachers of Mathematics with Engineering teachers and HODs:

2. The Goal: the goal is to improve the results of subjects which includes mathematics as base

Best Practice II

3. Title of Practice II: Meeting of teachers teaching same subjects:

4. 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. Ralsoni College of Engineering & Management, Wagholi, Pune		Academic Calendar 2014-15 Second Semester																																						
Sl. No.	Activity	SE, TC, CE, SY, TY, MCA (UOP, I, II, III, IV, V, VI)	Scheduled Date																																					
			ME	FE	TY MCA (UOP, I)																																			
1	Workload distribution, Nomination of Timetable In-charges, Class teachers, Project coordinator, Teacher guidelines and other activity in-charges	19/11/2014	15/12/2014	15/12/2014	16/12/2014																																			
2	HOD meeting, Display of time-table, Submission of lecture plan, practical part, question bank and lab manual Data entry in RAMS database, Procurement of lab equipments/Library books.	20/11/2014	18/12/2014	18/12/2014	18/12/2014																																			
3	Preparation of students list & attendance record, RAMS – entry of database	30/11/2014	22/12/2014	22/12/2014	22/12/2014																																			
4	Submission of Time Table, Portfolio distribution/activity in-charges	03/12/2014	05/01/2015	05/01/2015	06/01/2015																																			
5	HOD meeting for submission of dept. planning (Class teachers, Activity in charge, TGS)	04/12/2014	08/01/2015	08/01/2015	08/01/2015																																			
6	HOD meeting for review of dept activity, on-line exams and attendance compilation	11/12/2014	15/01/2015	15/01/2015	16/01/2015																																			
7	Start of classes – Sem II (SE, FE, I, II, and SY, TY, MCA)	16/12/2014	12/01/2015	29/12/2014	01/01/2015																																			
8	Review of time table, project groups/Seminars/Log Books and change of guide	17/12/2014	13/01/2015	13/01/2015	13/01/2015																																			
9	Analysis of university exam results (as per UOP)	As per UOP	As per UOP	As per UOP	As per UOP																																			
10	HOD meeting for review of dept activities, results, attendance, class	24/12/2014	18/01/2015	18/01/2015	18/01/2015																																			
11	Planning for FRPCS, Clashing and Innovation awards	26/12/2014	16/01/2015	16/01/2015	16/01/2015																																			
12	Monthly attendance compilation & RAMS / Academic diary Review	01/01/2015	02/02/2015	02/02/2015	02/02/2015																																			
13	Review of Parent Meeting/Alumni Meet	07/01/2015	04/02/2015	04/02/2015	04/02/2015																																			
14	National Conference (By E&T Dept)		06-08/01/2015																																					
15	Review of Online UOP Exam and HOD meeting/Letter to parents	18/01/2015	05/02/2015	05/02/2015	05/02/2015																																			
16	HOD meeting to review syllabus and attendance	22/01/2015	22/01/2015	22/01/2015	22/01/2015																																			
17	Online UOP Exam Phase - I	As per UOP	As per UOP	As per UOP	As per UOP																																			
18	Monthly attendance compilation & RAMS entry/ Academic diary Review	02/02/2015	02/02/2015	02/02/2015	02/02/2015																																			
19	Mid Semis Sem (ME) test (theory/practical/projects/seminars) and seminar submission to be conducted during regular theory/practical slots	09-12/02/2015	09-12/02/2015	09-12/02/2015	—																																			
20	Review of mid sem test and faculty feedback	12/02/2015	12/02/2015	12/02/2015	12/02/2015																																			
21	NBA Committee Visit and review		As per NBA dates																																					
22	Mid Sem syllabus/lectures coverage, ME Internal Test/Seminar Presentation	16/02/2015	16/02/2015	16/02/2015	16/02/2015																																			
23	FRPCS/Paroksha/Technical activity	As per RGI	As per RGI	As per RGI	As per RGI																																			
24	EE mid sem UOP Exam	As per UOP	—	—	—																																			
25	Faculty Diary verification/RAMS entry	23-26/02/2015	23-26/02/2015	23-26/02/2015	23-26/02/2015																																			
26	International Conference (By Mechanical Dept.)		26-28/02/2015																																					
27	Planning for syllabus coverage/critical subjects	02/03/2015	02/03/2015	02/03/2015	02/03/2015																																			
28	HOD meeting to review of academics, students activities	05/03/2015	05/03/2015	05/03/2015	05/03/2015																																			
29	ME Internal Test/Seminar Presentation	—	03-05/03/2015	—	—																																			
30	Online UOP Exam – II	As per UOP	—	As per UOP	—																																			
31	Monthly attendance compilation & RAMS entry/ Academic diary Review	04/03/2015	02/04/2015	02/04/2015	02/04/2015																																			
32	End sem feedback/syllabus coverage/exam result analysis/term end test	16-18/03/2015	06-08/04/2015	09-08/04/2015	06-08/04/2015																																			
33	HOD meeting and Planning for term work submission/seminar/oral	19/03/2015	19/03/2015	14/04/2015	14/04/2015																																			
34	Monthly attendance compilation & RAMS entry/ Academic diary Review	23-24/03/2015	23-24/03/2015	23-24/03/2015	23-24/03/2015																																			
35	ANTARAGNI – Annual Social Gathering		Will be conducted in the month of March 2015 [Last week] based on hall availability																																					
36	Finalization of provisional detention list and communication to parents	30/03/2015	10/04/2015	10/04/2015	10/04/2015																																			
37	End of classes	04/04/2015	18/04/2015	17/04/2015	17/04/2015																																			
38	HOD meeting for review of term end submissions and detention	09/04/2015	20/04/2015	20/04/2015	20/04/2015																																			
39	Completion of term work marks to UOP (UG/PG)	As per UOP	As per UOP	As per UOP	As per UOP																																			
40	Declaration of end sem-oral/practical exam dates	As per UOP	As per UOP	As per UOP	As per UOP																																			
		December	January	February	March	April	May																																	
Mon	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31									
Tue	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31										
Wed	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31											
Thu	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31												
Fri	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31													
Sat	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31														
Sun	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31															
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	1	2	3	4	5	1	2	3	4	5

List of holidays: 25/12/14 (Christmas), 04/01/15 (Id-E-Milad), 19/02/15 (Chha. Shivaji Maharaj Jayanti), 06/03/15 (Holi - Second Day), 21/03/15 (Gudi Padwa), 14/04/15 (Dr. Ambedkar Jayanti)

Dr. R. R. Arakerimath Dr. R. S. Bichkar Dr. D. D. Shah
 Deap Academics Dean R&D Principal, CHRCM

Annexure II

Best Practice -1

The Context:.

Mathematics is taught from first semester up to fourth semester Mathematics is taught to Engineering students as a basic requirement. 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 HODs 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 as..

- 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 were 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 better 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.

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 therefore 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 trainer's, 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 favored 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 near by 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.

Name : Prof. VijayKumar Joshi

IQAC Coordinator, GHRCEM

Name : Dr.D.D.Shah

Principal, GHRCEM

Signature of the Coordinator, IQAC

Signature of the Chairperson, IQAC

