

**Shram Sadhana Bombay Trust's
College of Engineering & Technology, Bambhori, Jalgaon, Maharashtra**

**The Annual Quality Assurance Report (AQAR) of the IQAC
Academic Year: 2016-2017**

Part – A

1. Details of the Institution

1.1 Name of the Institution

**Shram Sadhana Bombay Trust's
College of Engineering & Technology,**

1.2 Address Line 1

NH-6, Post Box No.94,

Address Line 2

Bambhori

City/Town

Jalgaon

State

Maharashtra

Pin Code

425001

Institution e-mail address

sscoetjal@gmail.com

Contact Nos.

0257-2258393

Name of the Head of the Institution:

Dr. K. S. Wani

Tel. No. with STD Code:

0257-2258393

Mobile:

9423774254

[Type text]

Name of the IQAC Co-ordinator:

Dr.S.P.Shekhawat

Mobile:

9423621653

IQAC e-mail address:

spshekhawat@rediffmail.com

1.3 NAAC Track ID (For ex. MHCOGN 18879)

MHCOGN24485

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)/17/A8A/132.1

1.5 Website address:

www.ssoetjalgaon.ac.in

Web-link of the AQAR:

http://www.ssoetjalgaon.ac.in/IQAC/IQAC.pdf

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 st Cycle	B++	2.91	16-09-2016	5 Years
2	2 nd Cycle				
3	3 rd Cycle				
4	4 th Cycle				

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

23/04/2013

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

2016-2017

[Type text]

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)

NOT APPLICABLE

- i. AQAR _____ (DD/MM/YYYY)4
- ii. AQAR _____ (DD/MM/YYYY)
- iii. AQAR _____ (DD/MM/YYYY)
- iv. AQAR _____ (DD/MM/YYYY)

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 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)

1.12 Name of the Affiliating University (for the Colleges)

**North Maharashtra University,
Jalgaon, M.S.**

[Type text]

1.13 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc : **No**

Autonomy by State/Central Govt. / University

University with Potential for Excellence UGC-CPE

DST Star Scheme UGC-CE

UGC-Special Assistance Programme DST-FIST

UGC-Innovative PG programmes Any other (*Specify*)

UGC-COP Programmes

2. IQAC Composition and Activities

2.1 No. of Teachers

2.2 No. of Administrative/Technical staff

2.3 No. of students

2.4 No. of Management representatives

2.5 No. of Alumni

2.6 No. of any other stakeholder and
Community representatives

2.7 No. of Employers/ Industrialists

2.8 No. of other External Experts

2.9 Total No. of members

2.10 No. of IQAC meetings held

2.11 No. of meetings with various stakeholders: No. Faculty

[Type text]

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): **No**

(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

1. Suggested improvement in Teaching Learning Process. 2. Analysed University result. 3. Enhance faculty participation in research activities.

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. Mentorship and training activities for junior teachers.	1. Orientation programme is organised.
2. To publish lecture notes on Moodle	2. Lecture notes are published on Moodle for student benefits
3. To invite experts from industries	3. Expert lectures are organised in every department.
4. To develop Digital Library Facility	4. Digital facility is provided
5. Financial support to innovative student projects	5. Financial help is extended to innovative projects and student project based learning activities.

[Type text]

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

2.15 Whether the AQAR was placed in statutory body Yes No

Management Syndicate Any other body

Provide the details of the action taken

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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
PhD	05	00	05	00
PG	06	00	06	00
UG	08	00	08	00
PG Diploma				
Advanced Diploma				
Diploma				
Certificate				
Others				
Total	19	00	19	00

Interdisciplinary				
Innovative				

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

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	14
Trimester	
Annual	

[Type text]

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.

NO

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

NO

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty	Total	Asst. Professors	Associate Professors	Professors	Others
	100	81	13	06	---

2.2 No. of permanent faculty with Ph.D. **26**

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year	Asst. Professors		Associate Professors		Professors		Others (Lecturer)		Total	
	R	V	R	V	R	V	R	V	R	V
	26	40	01	24	00	16	33	00	60	80

2.4 No. of Guest and Visiting faculty and Temporary faculty

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	09	-	-
Presented papers	09	-	-
Resource Persons	-	-	05

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

The basic teaching learning method adopted by our faculty members are chalk & talk, use of teaching aids such as LCD projector, OHP etc., interactive class room and lab sessions etc.

Innovative teaching approaches/ methods adopted by the faculty members during the last four years are use of ICT tools, such as Presentation tools like LCD projectors, whiteboard, interactive board etc., Power Point presentations, course materials through web pages, Student Management System through ERP, Moodle – Learning Management System, NPTEL video Lectures etc.

Institute encourages faculty members to use ICT tools by providing necessary infrastructural support. The Institute also encourages faculty members to participate in FDP by providing travel expenses/ registration fees.

The impact of such practices on student learning are creating more learner-centric environment, building of better teacher confidence and professional development, improvement in the retentive memory of students, creation of interactive classes and to make the lessons more enjoyable, which improves student attendance and concentration etc.

2.7 Total No. of actual teaching days

during this academic year

144

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

1. Photocopy 2. Onscreen evaluation
--

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

06

03

10

2.10 Average percentage of attendance of students

81.23 %

2.11 Course/Programme wise distribution of pass percentage (2015-16):

Title of program	Total Students appeared	Division (%)				
		Distinction	First class	Second class	3 rd class	Pass
Biotech Department	20	82	18	00	00	20
Chemical Department	32	80	18	02	00	30
Civil department	54	75	19	06	00	45
Computer department	130	85	15	00	00	109
Electrical department	63	90	10	00	00	61
E&TC department	116	85	15	00	00	104
Information technology	66	92	08	00	00	62
Mechanical department	136	75	15	10	00	106
MBA	56	80	20	00	00	48

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

IQAC meets once in a year and discusses about the improvement in teaching learning process. The resolutions passed in the meetings are circulated to all HoDs for effective implementation. Director of Academics (DoA) periodically takes feedback from the HoDs/ Faculty Members/ Students about the effective implementation of the resolution passed in IQAC about teaching – learning process.

Contributions of IQAC in academics, administration, research, usage of ICT are as follows:

- Encouragement to enhance Co-curricular and Extracurricular activities such as workshops, symposium, conferences, Student technical training programs, educational tours, motivational activities for students, faculty members and other staff.**
- Suggestion for systematic planning of academic activities for teaching-learning and evaluations.**
- Motivating faculty members to develop study material, lab manuals and to increase involvement in research activities.**

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	05
UGC – Faculty Improvement Programme	Nil
HRD programmes	04
Orientation programmes	09
Faculty exchange programme	Nil
Staff training conducted by the university	03
Staff training conducted by other institutions	16
Summer / Winter schools, Workshops, etc.	37
Others	13

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	25	-	--	16
Technical Staff	21	-	--	02

Criterion – III

3. Research, Consultancy and Extension

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

In every IQAC meeting, Research is an integrated and important agenda. The collage has specifically taken some initiatives in sensitizing Research climate.

- **The college allocates separate budget for Research activities in each department.**
- **The college supports financially the students Research project proposals based upon their quality.**

3.2 Details regarding major projects: - Nil

	Completed	Ongoing	Sanctioned	Submitted
Number				
Outlay in Rs. Lakhs				

[Type text]

3.3 Details regarding minor projects:- Nil

	Completed	Ongoing	Sanctioned	Submitted
Number				
Outlay in Rs. Lakhs				

3.4 Details on research publications

	International	National	Others
Peer Review Journals	-	-	-
Non-Peer Review Journals	-	-	-
e-Journals	23	Nil	Nil
Conference proceedings	05	-	-

3.5 Details on Impact factor of publications:

Range **0-3.5** Average **1.75** h-index **2 (avg)** Nos. in SCOPUS **01**

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	-	-	-	-
Interdisciplinary Projects	-	-	-	-
Industry sponsored	-	-	-	-
Projects sponsored by the University/ College	02	SSBTCOET	750000/-	750000/-
Students research projects (other than compulsory by the University)	01	IEDC (DST)	500000/-	500000/-
Any other(Specify)	02	Vice Chancellor Research Motivation Scheme, NMU, Jalgaon	538000/-	538000/-
Total				

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

ii) Without ISBN No. **Nil**

[Type text]

3.8 No. of University Departments receiving funds from

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

VCRMS

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	--	--	--	--
Sponsoring agencies	IEEE				

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

3.13 No. of collaborations **NIL** 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	NIL
	Granted	
International	Applied	
	Granted	
Commercialised	Applied	
	Granted	

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						

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

05

27

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

05

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

JRF SRF Project Fellows Any other

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

University level State level
National level International level

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

University level State level
National level International level

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

University level State level
National level International level

3.24 No. of Awards won in NCC: **NA**

University level State level
National level International level

[Type text]

3.25 No. of Extension activities organized **NIL**

University forum	<input type="text"/>	College forum	<input type="text"/>		
NCC	<input type="text"/>	NSS	<input type="text"/>	Any other	<input type="text"/>

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

- 1. Scheme for Economical Backward Class Students**
- 2. Karmveer Bhaurao Patil Earn & Learn Scheme [Setpember,2016 to March,2017]**
- 3. Marathi Bhasha Divas [27th February, 2017]**
- 4. Yuvarang 2017**
- 5. University Level Elocution competition for Girls**
- 6. Dr.B.R. Ambedkar Jayanti**
- 7. Chhatrapati Shivaji Maharaj Jayanti**
- 8. Overseas Study Seminar -Ms Rajashri Kulkarni**
- 9. Anti Tobacco Mission Seminar**
- 10. Blood Donation Camp**
- 11. Youth Skill Day - 15th July,2016**
- 12. Tree Plantation - 16th July & 14th August, 2016**
- 13. International Yoga Day**
- 14. Constitution Day**
- 15. National Unity Day**
- 16. National Education Day**
- 17. Elocution Competition with LIC of India.**
- 18. Essay Competition with LIC of India.**

[Type text]

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 (m ²)	35530	-	-	35530
Class rooms	48	--	-	48
Laboratories	98	-	-	98
Seminar Halls	08	-	-	08
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	5	-	-	5
Value of the equipment purchased during the year (Rs. in Lakhs)	980865	-	-	980865
Others	432016	-	-	432016

4.2 Computerization of administration and library

Using SOUL 2.0 software developed by INFLIBNET, Ahamadabad

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	57552	1,91,21,100	561	259997	58113	19381097
Reference Books	4226	2545981	--	--	4226	2545781
e-Books	200	227000	--	--	200	227000
Journals	110	313016	110	313016	110	313016
e-Journals	1946	1093563	1691	227535	1691	227535
Digital Database	--	--	--	--	--	--
CD & Video	1251	--	--	-	1251	--
Others (specify)	--	--	--	--	--	--

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	999	895	--	--	40	46	--	18
Added	48	48	--	--	--	--	--	--
Total	1047	943	--	--	40	46	--	18

[Type text]

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

The institute has sufficient number of desktop PCs as per the norms laid down by the regulatory body. In addition to computer center, each department has computer labs with desktop PCs and Internet access for students. Each department is provided with computer systems and internet connection for the teaching staff to update their knowledge. Internet access is available to teachers and students throughout the year through 48 Mbps lease line.

Training is given to the teachers and students regularly for technology up-gradation, such as LateX, LMS (Moodle), Excel, open source software etc. MIS software is being implemented in the office.

4.6 Amount spent on maintenance in lakhs :

i) ICT	66932
ii) Campus Infrastructure and facilities	10,10,582
iii) Equipments	4,29,642
iv) Others	8,57,560
Total :	23, 64,716

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

1. IQAC reviews the ongoing academic activities and suggest the reforms to improve teaching learning process.

2. Contributions of IQAC in academics, administrative, research, usage of ICT are as follows:

- Encouragement to enhance Co-curricular and Extracurricular activities such as workshops, symposium, conferences, Student technical training programs, educational tours, motivational activities for students, faculty members and other staff.**
- Suggestion for systematic planning of academic activities for teaching-learning and evaluations.**
- Motivating faculty members to develop study material, lab manuals and to increase involvement in research activities.**

5.2 Efforts made by the institution for tracking the progression

Feedback is collected from students and other stakeholders in following ways.

[Type text]

- Course end survey: At the end of course the feedback of students is collected and analyzed.**
- Graduate survey: At the end of the program the feedback of students is collected and analyzed.**
- Parents meet: The College has a regular practice of organization of parents meet. Feedbacks are taken from the parents. Feedback is analyzed and accordingly used as input for curriculum development and other activities.**
- Alumni meet: The College regularly organizes Alumni meet. Suggestions from alumina are collected for the improvement of curriculum.**
- Interaction with Industry persons: The suggestions provided by the industry persons are used to bridge the gap between curriculum and the need of industry.**

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
2518	165	30	-

(b) No. of students outside the state

86

(c) No. of international students

nil

Men

No	%
nil	

Women

No	%
nil	

Last Year (2015-16)						This Year (2016-17)					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physical ly Challenged	Total
1086	225	41	1596	0	2947	1058	202	56	1644	0	2960

Demand ratio **85**

Dropout % **3**

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

- **MoU with Deepstambh Foundation for UPSC/ MPSC Exam Preparation**
No. of Students Beneficiaries- Participated **40 students**
- **Video Conferencing Studio of Vidyalankar Group of Institutions, Mumbai for GATE aspirants**

No. of students beneficiaries

545

5.5 No. of students qualified in these examinations

[Type text]

07

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

5.6 Details of student counselling and career guidance

- **Student Counseling & Career Guidance Process involves empowering students to make them successful professionals for the whole life span; it is a collaborative effort of Various Departments and Training & Placement Cell**
- **Availing maximizing career opportunities, promoting effective job placement, strengthening employer relations through Training & Placement Cell.**

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
24	548	102	

5.8 Details of gender sensitization programmes

Through women cell the institute conducts sensitization and awareness programs against women exploitation and abuse.

5.9 Students Activities

5.9.1 No. of students participated in Sports, Games and other events

State/ University level National level International level
 Zonal Level / Inter Group Inter-Collegiate

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

Sports : State/ University level National level International level

***Out of 237 colleges of University region our college achieved 06th rank in the University.**

5.10 Scholarships and Financial Support

[Type text]

	Number of students	Amount (Rs)
Financial support from institution	19	2,70,750
Financial support from government	2264	8,51,05,127
Financial support from other sources	10	47,500
Number of students who received International/ National recognitions	-	-

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

- **Blood Donation**
- **Tree Plantation**
- **Swachhata Abhiyan**
- **Vittiya Saksharta Abhiyan**
- **Maharashtra Digidhan**
- **Cancer Awareness Program**
- **Anti Tobacco Mission**
- **Youth Skill Development**
- **'Yuvarang' (Inter Collegiate Event)**
- **International Yoga Day**

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: Today we carry the flame of quality education, knowledge and progressive technology for global societal development, tomorrow the flame will glow even brighter.

Mission: To provide conducive environment for preparing competent, value added and patriotic engineers of integrity of par excellence to meet global standards for societal development.

6.2 Does the Institution has a management Information System . **Yes**

[Type text]

Following software's are used for MIS -

1. ERP software

2. MOODLE

3. e-savidha software by NMU Jalgaon

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

6.3.1 Curriculum Development

Contributions of the institution and staff members to the development of the curriculum are:

- The institution is affiliated to North Maharashtra University, Jalgaon. The curriculum is prepared under the Faculty of Engineering and Technology.
- Specific suggestions received from different stakeholders are analyzed and conveyed to the university to consider the same in the Board of Studies meetings.
- Faculty members of the college having representation in the university Board of Studies as chairman and members. They are

Year	Departments	Name of Faculty Members	Position in BOS / Member
2016-17	Chemical Engineering	Dr. K.S. Wani	Member (Chemical Engineering & Chemical Technology)
	Mechanical Engineering	Dr. S. P. Shekhawat	Member (Mechanical , Production & Automobile Engg.)
	Computer Engineering	Dr. G. K. Patnaik	Member(Computer Engineering)
	Electrical Engineering	Mr. M. Mujtahid Ansari	BOS Chairman (Electrical and Instrumentation Engg.)
	Civil Engineering	Dr. S.B. Pawar	Member(Civil Engineering)
	Bio-Technology	Dr. I.D. Patil	Member (Bio-Technology)
	Electrical Engineering	Dr. P. J. Shah	Chairman, Ad-hoc BOS (Electrical and Instrumentation Engg.)

6.3.2 Teaching and Learning

The Institute gives utmost importance to teaching and learning process as it is the backbone of any academic system of any Institution. The affiliating university notifies the academic schedule term-wise at the beginning of every academic session. It includes dates for start and end of each term, and university examination (Theory and Practical) schedule.

[Type text]

Based on the same the Institute prepares academic calendar for UG and PG programs. The academic calendar includes schedule for two internal tests, co-curricular and extra-curricular activities etc. The recent academic calendar 2016-17 is enclosed herewith.

In addition to the regular academic activities, Institute organizes co-curricular and extra-curricular activities such as conference, seminars, guest/expert lectures, Annual sports, cultural program, industrial visit etc and their dates are scheduled in the academic calendar.

Faculty also teach content beyond the syllabus so that students will get the knowledge about latest trends of technology. Students use Moodle learning management system to download the course material from anywhere and at any time in campus. NPTEL videos are also used to acquire the knowledge from renowned faculty from various well known and reputed institutes, such as IIT's.

As a part of Teaching – Learning Process, the Institute follows the procedure:

- Prepares Academic Calendar in accordance with University Calendar
- Department prepares Time Table
- Faculty prepares/updates Course files
- Faculty Prepares Course material and upload on moodle
- Faculty prepares Lesson Plan
- Faculty prepares Practical list in the curriculum prescribed and schedule for the conduct.
- Two Tests per Term
- Teacher - Guardian counsels the students about academic performance
- Feedbacks are collected when teaching is in process and concerned faculty uses the same to meet the requirements
- Evaluation and assessment of Lab Work
- University examination and declaration of result
- Internship / Industrial training / Social Survey / Case Study
- Result Analysis for further improvement

6.3.3 Examination and Evaluation

[Type text]

The progress and performance of each student is monitored through Attendance (Theory and Practical), Internal Continuous Assessment (ICA), Internal Sessional Examination (ISE) and End Semester Examination (ESE).

Marks in ISE are communicated to the students by the concerned faculty through their answer papers. Answer papers of ISE are shown to the students and discussed in the class. The solution of ISE is also submitted to the Department. Mock practical test is conducted by concern faculty, for the subjects having PR head. Grade in ICA for the lab work are shown to the students during the lab session time to time. Remedial classes are conducted for the failed students if required.

Attendance and marks in ISE of each and every student are communicated to parents through letter / SMS time-to-time.

6.3.4 Research and Development

- **The authorities always encourage staff members, from each and every development, to conduct/ increase involvement research activities, improve qualification and go for publications and patents.**
- **There is a special post of director R&D. Under Director R&D, a Research Committee coordinate Research activities in the college and take policy decisions in this regards.**
- **There is an indigenous Research funding scheme Shram Sadhana Research Promotion Scheme in the college through which funds are provided to quality Research proposals of staff members.**
- **College organizes International Conference every year.**
- **College organizes workshops, Seminars, Guest Lectures and so many such activities to directly and indirectly boost up R&D activities.**

6.3.5 Library, ICT and physical infrastructure / instrumentation

- 1. E – Library: Purchased e-books, e-journals, etc**
- 2. Institutional Repository: Paper published by the faculty members, university question papers, syllabus copy, project and seminar reports are maintained**
- 3. State of the Art infrastructure is developed.**
- 4. Labs are equipped with modern equipments.**

6.3.6 Human Resource Management

The institute has definite strategies and implements them while recruiting and retaining faculty and other staff.

Provision in the budget is made for the professional development of the faculty and staff. College sponsors faculty members for paper presentation in conferences and seminars, STTP, workshops, training programs. The institute encourages faculty members to become member of professional

societies. Institute provides training to staff members for skill up gradation viz. computer hardware training program, safety awareness/training program.

Institute appreciates the work of its faculty and staff members by giving promotions and incentives.

Thus the institute ensures the quality improvement of its faculty and staff.

1. The faculty applies for the faculty development programmes conducted at various colleges
2. The registration fee upto Rs. 5000/- is borne by the institute.
3. The faculty is granted Duty Leave for FDP, etc.
4. FDP's, Workshops, Conferences, Seminar, etc are organized by the institute regularly.
5. The Institute is having IIT Remote center

6.3.7 Faculty and Staff recruitment

Vacancy position of the faculty is calculated and accordingly advertisement is given in National & Local Newspapers inviting applications. For University approval part of the faculty, University Selection Committee selects candidates as per the norms of AICTE/UGC which are then appointed by the college.

For college level recruitment of faculty and staff, advertisement is published in the newspapers inviting the applications. Candidates are called for the interview and Selection Committee of the college select the candidates as per the required qualifications and according to AICTE/University/State Govt. norms.

6.3.8 Industry Interaction / Collaboration

- Lectures of Industrialists, Industry Personnel
- Industrial Training
- Industrial Visit
- IEDC- Entrepreneurship Awareness Camp (EAC)
- Departmental MoU's with Industries
- Testing & Consultancy
- Industrial Projects
- Industry Experts in academic development
- Joint Research Publication

6.3.9 Admission of Students

The students are admitted through centralised admission process conducted
However the Admission to college is promoted through following activities:

- Career counselling Programs
- Advertisements through Press, T.V., Radio and Hoarding
- Participation in career fair
- Publishing career guidance Articles
- Special Scholarship to Meritorious Students

6.4 Welfare schemes for	Teaching	Gratuity scheme is implemented for permanent staff.
	Non teaching	
	Students	Scholarship scheme are implemented

6.5 Total corpus fund generated 2.2 Cr

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	NO		NO	
Administrative	NO		NO	

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

For UG Programmes Yes No

For PG Programmes Yes No

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

NA

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

[Type NA]

6.11 Activities and support from the Alumni Association

1. Organized Alumni meet every year 2. Alumni – Student Interaction session 3. Expert lectures of eminent alumni members

6.12 Activities and support from the Parent – Teacher Association

1. Organisation of Parents Meet

2. Suggestion from parents are discussed and implemented in the current academic year.

3. Student progress reports are sent to parents regularly through post and SMS.

6.13 Development programmes for support staff: NIL

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

- **80 m³/day capacity silage recycling scheme is working in the campus. Thus the campus is maintained lush green in this arid weather of Jalgaon city (21⁰N, 75⁰E), which is water scare too.**
- **The Garbage produced by mess and canteen is digested under anaerobic conditions to form biogas.**
- **The litter is vermicomposted and used in garden.**
- **There is a plan to gradually switch over to silicon based solar panels and to reduce use of grid based electricity.**
- **There is a lawn spreading over 5 acres and tree plantation is done where ever possible**
- **Use of plastic tea cups is banned in campus.**

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.

Inculcating research attitude

In order to inculcate the research attitude in students and faculty members, the institute has taken several initiatives.

The institute has a Director of Research and development to coordinate the research activities. The director scrutinizes the research proposals submitted by the faculty members. He also keeps a track of various research funding scheme and inspires faculty members to submit proposals under them.

The institute budget has specific provision for research activities for each department. The faculty members can put up their requirements within the budget to carry out their research. There is a separate provision for student projects too. In case of specific student/faculty project, provisions beyond regular budget are also done on the recommendations of HoDs and Director of Research. The institute has initiated an indigenous research promotion scheme (SSRPS). The faculty members can submit their research proposals under this scheme every year at the beginning of the academic session. The proposals are scrutinized by a research committee and based upon the merit the funds are provided for the conduct of research.

The institute has done successful efforts to acquire the status of inclusion in the List of 2(f) and 12(B) under UGC act 1956. This entitles the institute as eligible to receive grants from UGC for research. The laboratories of five departments of the institute are recognized for doctoral research by North Maharashtra University, Jalgaon. The institute has five faculty members, recognized as Ph D supervisors by the university. This provides an opportunity to the faculty members to indigenously carry out research work, leading to doctoral degree. Many of the faculty members are pursuing their PhD.

The institute always encourages faculty members to indulge into research activities, write research proposals, communicate research papers etc. The institute publishes its own international research journal accommodating a broad spectrum of research arenas. This provides opportunity to the faculty members and students to publish their research papers online as well as in hard form. The institute every year organizes international conference which host internationally recognized eminent research scholars. They interact with the faculty members and students thus inculcating research attitude into them. The institute organizes workshops aiming to imbibe research attitude in faculty members and students. The students and faculty members are also deputed at other institutes to attend conferences and workshops which helps them in developing research attitude.

[Type text]

The institute organizes students' paper contest, project exhibition, poster presentation and tech fest like activities.

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

The action has been taken under following points:

1. Feedback mechanism from the stake holders

Students, Parents, Employers, and Alumni feedbacks on various aspects have been carried out by all departments annually and carefully considered. Also internal reviews of quality assurance procedures have been carried out periodically.

2. Faculty participation in conferences and workshops, etc:

It has been decided to invite academicians, industry peoples, and scientists as resource persons in Workshops/Seminars/Conferences organized by the institute in various departments. Further it was decided to provide registration fees up to Rs.5000 /- to the faculty members to participate in external Workshops/Seminars/Conferences recognized by national/international professional bodies and to present papers in Workshops/Seminars/Conferences conducted/recognized by professional agencies.

Also budget provisions have been made for the same.

3. Improvement in Teaching Learning process.

It is decided to maintain the adequate number of faculty members so as to enable them to engage in activities outside their teaching duties, especially for the purposes of professional development, curriculum development, student mentoring / counseling, administrative work, training, and placement of students and interaction with industrial and professional practitioners. The number of faculty members must be sufficiently large in proportion to the number of students, so as to provide adequate levels of faculty-student interaction. In any educational programme, it is essential to have adequate levels of teacher-student interaction, which is possible only if there are enough teachers, or in this case, faculty members.

Also in class rooms and laboratories teaching learning aids and equipments have been provided as per university curriculum. Classrooms, tutorial rooms and laboratories have been adequately furnished to provide an environment conducive to learning. Modern teaching aids such as digital interactive boards, multimedia projectors etc., have been made available in place

to facilitate the teaching-learning process so that programme outcomes of the programme can be achieved.

The laboratories have been made equipped with computing resources, equipments, and tools relevant to the programme. The equipments of the laboratories have been properly maintained, upgraded and utilized so that the students can acquire required skills through it. There is always scope for improvement, so wherever possible improvements in internal Examination and Internal Evaluation process have been made.

4. Students participation in extracurricular activities

It is decided that the enhancement in the facilities for extracurricular activities such as sports, outdoor and indoor games, gymnasium, auditorium, cultural activities, Public speaking, communication skills development, yoga, health and hygiene etc should be done. Institute has provided motivational awards, TA DA, Certificates and Trophies to the students for their excellence in the all above activities.

5. To promote research and consultancy activities:

It is suggested to enhance research by providing seed money by the institute for research activities of the faculty members. The consultancy facilities available in the institute have been advertised on college website and in newspapers, so that it will help to promote available expertise for the benefit of industry and society.

6. Student Training:

It is decided to organize training sessions for students to prepare them for paper presentation, project exhibitions, technical quizzes, etc. This type of training sessions have been organized at department levels as per their convenience.

7. Latex Workshop:

Dr.Patnaik has given information that some of the departments have organized Latex workshop and other departments are going to organize the same. It is made compulsory to all final year BE students and ME students to prepare their project reports in Latex only.

7.3 Give two Best Practices of the institution (*please see the format in the NAAC Self-study Manuals*)

1. Use of Information and Communication Technology (ICT)

The use of audio visual aids has been integrated with conventional chalk and board teaching for effective curriculum delivery. The students are provided with self study material like NPTEL video lectures and notes through MOODLE.

[Type text]

2. Recognized research laboratories for doctoral research

The institute is affiliated to the North Maharashtra University, Jalgaon, MS. The laboratories of the following departments are recognized for doctoral research by the University:

- Civil Engineering
- Mechanical Engineering
- Electronics and Telecommunication Engineering
- Chemical Engineering
- Biotechnology

(annexure enclosed as i, ii,iii, iv, v)

7.4 Contribution to environmental awareness / protection

- Cleanliness drive is observed in campus every year in order to enforce awareness in students regarding environmental protection.
- Environmental studies is compulsory to all branches of engineering as per the verdict of SC.
- At suitable positions environmental awareness related posters are displayed.
- The campus culture not only integrates the physical environmental awareness rather it takes care to develop healthy social environment too. The campus adds vitality to its life by enthusiastically celebrating all festivals of various religions

7.5 Whether environmental audit was conducted? Yes No

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

8. Plans of institution for next year

To Start

1. Online GATE coaching classes
2. Participate in NIRF
3. Research Lab recognition of computer department and renewal of recognition of E&Tc lab.

Name Dr. S.P. Shekhawat

Name Dr. K.S. Wani

Signature of the Coordinator, IQAC

Signature of the Chairperson, IQAC

[Type text]

Annexure I

Abbreviations:

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