Institutional Accreditation Self Study Report

Submitted to
National Assessment and Accreditation Council (NAAC)
An Autonomous Institution of the University Grants Commissions
P.O. Box No. 1075, Agarbhavi
Bangalore - 560072

By

ESTD - 1928

SNJB's Late Sau. Kantabai Bhavarlalji Jain College of Engineering

Approved by AICTE, Affiliated to Savitribai Phule Pune University, Pune
(Jain Gurukul) Neminagar, Chandwad Tal. Chandwad, Dist. Nashik
Pin - 423101, Maharashtra

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**Declaration by head of Institution
(Scan Copy of Letter)**

Contents

Preface

It gives me immense pleasure to present the Self- Study Report (SSR) of SNJB's Late Sau Kantabai Bhavarlalji Jain College of Engineering, Chandwad to the National Assessment and Accreditation Council (NAAC), Bangalore for assessment and accreditation. The report has been prepared with utmost care and as per the guidelines given by NAAC. The report comprises three sections: Section I - Profile of the Affiliated College, Section II - Criteria-Wise Inputs, Section III- Evaluative report of the Departments.

SNJB's Late Sau. Kantabai Bhavarlalji Jain College of Engineering, Chandwad, established in 2004 is affiliated to Savitribai Phule Pune University (SPPU), Pune. The institute offers 05 undergraduate and 02 post graduate, all of which are permanently affiliated to SPPU, Pune.

We are committed to impart quality engineering education and create opportunities for rural students to become successful engineers and technocrats. This accreditation process will provide us an opportunity to know our strengths and weaknesses and to implement the suggestions given by the peer team.

It was difficult to complete this self-study report without the cooperation of entire team of SNJB's Late Sau Kantabai Bhavarlalji Jain College of Engineering. At first, I would like to thank to Institutes Coordinators, members of the Steering Committee, IQAC members, the Heads of the Departments, the faculty and staff for their contribution in the preparation of SSR. I take this opportunity to thank our Management for their whole hearted support for this endeavor.

We are eagerly looking forward to welcome the Peer Team in the beautiful premises of SNJB's Late Sau Kantabai Bhavarlalji Jain College of Engineering, Chandwad.

Executive Summary of College

The Jain Gurukul campus founded in 1928 by the great "Sangharsharathi" Karmaveer Late Shri Keshavlalji Harakchandji Abad alias Poojya Kakaji is popularly known as *'SNJB Jain Gurukul'*. SNJB has various faculties in the campus and the flagship institute **SNJB's Late Sau Kantabai Bhavarlalji Jain College of Engineering**, which is approved by the All India Council of Technical Education (AICTE), New Delhi and Government of Maharashtra and affiliated to the Savitribai Phule Pune University, was established in the year 2004 with four branches viz. Mechanical Engineering, Computer Engineering, Electronics & Telecommunications Engineering and Civil Engineering.

Current sanctioned intake of the institute is summarized in the following table.

Under Graduate Courses			
Sr. No	**Course Name**	**Intake**	**Course start year**
1	Civil Engineering	60	2004
2	Computer Engineering	60	2004
3	E&TC Engineering	60	2004
4	Mechanical Engineering	120	2004 & Incremented in 2012
5	Information Technology	60	2008
Post Graduate Courses			
Sr. No	**Course Name**	**Intake**	**Course start year**
1	MBA	60	2010
2	ME(VLSI & Embedded systems)	18	2012

State of the art infrastructure is a prominent feature of the institute which includes well-furnished and well-equipped laboratories, technologically full-fledged auditorium, spacious classrooms and well developed central and departmental library with thousands of volumes.

For making the teaching learning process effective an army of professional faculty and technicians is employed in every department. Institute has a separate Training and Placement cell that contributes in making the students industry ready and employable.

VISION

Transform young aspirant learners towards creativity and professionalism for societal growth through quality technical education.

MISSION

➢ To share values, ideas, beliefs by encouraging faculties and students for welfare of society.
➢ To acquire the environment of learning to bridge the gap between industry and academics.
➢ To enhance diverse career opportunities among students for building nation.
➢ To transfer the suitable technology, particularly for rural development.

QUALITY POLICY

Our Quality Policy empowers the learner and educator for continuous improvement in diverse area of education competence by imparting knowledge exchange approach through the means of innovation, updation of technology advancement and industry interaction for academic excellence.

QUALITY OBJECTIVES

➢ To initiate continuous improvement by fostering technical competency for enhancing student and faculty.
➢ To collaborate institute with industry for learning modern practices and application through global market exposure.
➢ To create an atmosphere of research attitude among faculty and students for enrichment of society and individual.
➢ To deploy holistic culture with spiritual and moral values to develop humanistic and professionalism quality.

Criteria Wise Summary

Criteria I: Curricular Aspects

➢ The vision and mission statements of the college are clearly indicative of the objectivities of the National Policy on Education demanding that centers of higher education should perform multiple roles through technical knowledge.
➢ Institute follows the University designed curriculum and academic calendar for teaching learning scheme.
➢ Academic Coordinator monitor effective implementation w.r.t. Academic Calendar.
➢ Institute implemented SEROSOFT ERP software to motivate green campus.
➢ The college ensures the achievement of the stated objectives of the curriculum through the critical analysis of the examination results, and achievements in placements, sports, cultural and extension activities.
➢ Various faculties are contributing through syllabus designing and paper setting of SSPU.

Criteria II: Teaching Learning and Evaluation

- The institute have to mandatory involve in centralized admission process of Director of Technical Education (DTE), Maharashtra State Government.
- Institute follows the reservation criteria and polices framed by DTE in considering both state and central government reservation policies.
- Institute caters to the needs of differently abled students as per the policy guidelines issued by government.
- The students are made aware of the facilities, faculty expertise, rules, regulations, discipline code of the institute and the teaching learning process.
- Various initiatives like Mentorship sessions, GATE Exam Cell, "Rancho" are designed and implemented to cater to needs of advance learners.
- Institute identifies slow learners and improves their performance through extra sessions.
- Learn and earn scheme is implemented for economically poor students

Criteria III: Research Consultancy and Extension

- Few of staff members are successful in acquiring funded research projects from affiliated University.
- Since 2013 institute has completed four minor research projects funded by SPPU-BCUD.
- Institute provides conducive environment to facilitate smooth progress and implementation of research schemes.
- Institute also got five lakhs rupees grant for Solar Plant.
- Institute has organized Five Multi track International Conferences on Recent Trends in Engineering and Technology from Year 2012-2017.
- Institute has 168 faculty publications and 293 student publications in peer reviewed national / international journals or conferences.
- Institute has MoUs with 12 organizations.
- 11 publication by faculties are listed in various International Databases.
- 12 books published by Institute faculty members.
- Industry based on the job trainings / internships are organized frequently.
- Institute faculty has involved in providing consultancy services to 12 organizations.

Criteria IV: Infrastructure and Learning Resources

- ➢ The institute has infrastructure as per AICTE and SPPU norms.
- ➢ The institute has planned and constructed the infrastructure which facilitates the curricular and co-curricular activities.
- ➢ All the departments are fully equipped with the necessary infrastructure to meet the ever-increasing requirements with adequate classrooms, seminar halls, tutorial rooms, laboratories and sufficient space for hosting all academic activities.
- ➢ Residential facilities are provided for the students with the help of well-equipped three boys and one girls hostel in the campus.
- ➢ Various recreational facilities like Gymnasium, Yoga center, Boys and girls common rooms are available.
- ➢ Well-equipped library with total seating capacity of 125 and area of 490sqm with around 33000 volumes and around 8000 titles.

Criteria V: Student Support and Progression

- ➢ Institute provides applicable government scholarships and freeships, guidelines and support to eligible candidates.
- ➢ Institute has Entrepreneurship development cell (EDC), competitive examination cell (CEC) and Institute interaction cell (III) and Training and placement cell (T&P) to support student progression activities.
- ➢ Institute publishes own magazine named as "Impetus" from academic year 2011-2012 which has bagged various prizes at university level.

Criteria VI: Governance, Leadership and Management

- ➢ The Members of the trust board and *Prabhandh Samittee* play an important leadership role in the activities of the institution.
- ➢ The Principal is appointed through an interview conducted by *Prabhandh Samittee* as laid down by the Trust board. The departmental heads are normally appointed on the basis of institutional seniority of the members of the department.
- ➢ Principal actively follows guidelines of *Prabhandh Samittee* and provides effective administration for planning and implementation of academic, curricular and extra-curricular activities with the help of faculty.
- ➢ The institution follow establishment department related planning, Financial planning and Academic planning.
- ➢ Institute has Governing Council, Local Managing Committee, Anti-Ragging Committee, Anti-Ragging Squad, Women's Grievance Cell, NSS Advisory Committee, Reservation Committee, Library Advisory Committee, Examination Committee, Research Committee, Industry Institute Interaction Cell, Internal Quality Assurance Committee,

Cultural Committee, Training and Placement Cell, Student Grievance Redressal Cell, Student Council for smooth conduction of academic and administrative activities.

Criteria VII: Innovation and Best Practices

➢ Institute is audited by internal and external agencies for green campus concept.
➢ Rain water harvesting units are constructed for Institute and Hostel buildings. Through these pits 21,72,267 liters water is harvested per year.
➢ Initiatives like "Swachcha Bharat Abhiyan" , e-Waste Management, Hazardous waste management and Carbon Neutrality helps Institute to keep the Environment Green.
➢ Following Innovations are implemented in last four years have successfully improved functioning of the Institute
   a. GATE Examination Cell   b. Annual Magazine   c. ERP Software
   d. Mentor Scheme   e. Student Research Group   f. On campus Training
➢ Effectual teaching learning system and society oriented approach has been identified and inculcated as Institutes Best Practice.

SWOC Analysis

Strengths:-
➢ Qualified and Experienced full time faculty which meets teacher-student ratio at par along with efficient support of non-teaching staff.
➢ Adequate infrastructural support offered by the College such as well-equipped laboratory, library, enabled class rooms, playground, Wi-Fi campus, Hostel and Auditorium.
➢ Separate student assistance centers like Training & Placement Cell, Student Section, Competitive Examination Cell, Mentorship Activity and Entrepreneurship Development Cell
➢ Learning environment through teaching, research, project work and student exchange activities.
➢ Initiative and encouragement undertaken for higher education of teachers and students.

Weaknesses:-

➢ Inadequate number of Ph.D. faculties.
➢ Student admission is from most of the remote place, which hampers progression statistics.
➢ Exposure to industry and research is limited as it is based in rural area.
➢ Consultancy and research extension needs more concentration

Opportunities:-

- Collaboration with research institutes for projects and consultancy work.
- Encouraging students and faculties for social welfare oriented research project.
- Adjoin multi-disciplinary research and educational excellence.
- Motivating students for higher education, competitive examination, placement and self-employment.
- Interfacing with industries for learning new advanced technology and engineering practices.

Challenges:-

- Imparting soft skill to students as they are admitted from rural and remote place.
- Improvement in Placement statistics.
- Retention of highly qualified Faculty.
- Building alignment with industry and academic
- Changing admission regulations.
- Encouraging students for self-employment (Entrepreneurship)

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SECTION B: SELF-STUDY REPORT

1. Profile of the Affiliated / Constituent College

1. Name and Address of the College:

Name:	S.N.J.B.'s Late Sau. Kantabai Bhavarlalji Jain College of Engineering		
Address:	Neminagar, Jain Gurukul, At Post & Tal. Chandwad. Dist. Nashik		
City:	Chandwad	Pin: 423101	State: Maharashtra
Website:	www.snjb.org		

2. For Communication:

Designation	Name	Telephone With STD code	Mobile	Fax	Email
Principal	Dr. Mahadev Digambar Kokate	O:02556-253750 R: -----	9423173506	02556-253811	principalcoe @snjb.org
Vice Principal	-----	O: R:	-----	-----	-----
Steering Committee Co-ordinator	-----	O: R:	-----	----	----

3. Status of the Institution:

Affiliated College   ✓   Savitribai Phule Pune University, Pune, Maharashtra
Constituent College   ☐
Any Other (Specify)   ☐

4. Type of Institution:
  a. By Gender
     i. For Men   ☐
     ii. For Women   ☐
     iii. Co-education   ✓

  b. By Shift
     i. Regular   ✓
     ii. Day   ☐
     iii. Evening   ☐

5. It is a recognized minority institution?

Yes   ☑
No   ☐

If yes specify the minority status (Religious/linguistic/ any other) and provide documentary evidence.   Religious Minority- Jain

6. Sources of funding:

Government   ☐
Grant-in-aid
Self-Financing   ☑
Any Other

7.   **a.** Date of establishment of the college: **11/05/2004** (dd/mm/yyyy).

    b. University to which the college is affiliated /or which governs the college (If it is a constituent college)   **Savitribai Phule Pune University, Pune, Maharashtra**

    c. Details of UGC recognition:

Under Section	Date, Month &Year (dd-mm-yyyy)	Remarks (If any)
i.2(f)	N. A.	
ii.12(B)	N. A.	

(Enclose the Certificate of recognition u/s 2 (f) and 12 (B) of the UGC Act)

    d. Details of recognition/approval by statutory/regulatory bodies other than UGC (AICTE, NCTE, MCI, DCI, PCI, RCI etc.)

Under Section/ clause	Recognition/Approval details Institution/Department Programme	Day, Month and Year (dd-mm-yyyy)	Validity	Remarks
i.	Civil Engg., Computer Engg., E&TC Engg. Mechanical Engg.	11/05/2004	2004-2005	
ii.	Civil Engg., Computer Engg., E&TC Engg. Mechanical Engg.	24/06/2005	2005-2006	
iii.	Civil Engg., Computer Engg., E&TC Engg. Mechanical Engg.	29/05/2006	2006-2007	
iv.	Civil Engg., Computer Engg., E&TC Engg. Mechanical Engg.	25/06/2007	2007-2008	

v.	Civil Engg., Computer Engg., E&TC Engg. Mechanical Engg., Information Technology.	30/06/2008	2008-2009	
vi.	Civil Engg., Computer Engg., E&TC Engg. Mechanical Engg., Information Technology.	30/06/2008	2009-2010	
vii.	Civil Engg., Computer Engg., E&TC Engg. Mechanical Engg., Information Technology, MBA.	08/11/2010	2010-2011	
viii.	Civil Engg., Computer Engg., E&TC Engg. Mechanical Engg., Information Technology, MBA.	01/09/2011	2011-2012	
ix.	Civil Engg., Computer Engg., E&TC Engg. Mechanical Engg. **60 to 120**, Information Technology, MBA.	10/05/2012	2012-2013	
x.	Civil Engg., Computer Engg., E&TC Engg. Mechanical Engg. **60 to 120**, Information Technology, MBA.	19/03/2013	2013-2014	
xi.	Civil Engg., Computer Engg., E&TC Engg. Mechanical Engg. **60 to 120**, Information Technology, MBA.	04/06/2014	2014-2015	
xii.	Civil Engg., Computer Engg., E&TC Engg. Mechanical Engg. **60 to 120**, Information Technology, MBA.	07/04/2015	2015-2016	
xiii.	Civil Engg., Computer Engg., E&TC Engg. Mechanical Engg. **60 to 120**, Information Technology, MBA.	05/04/2016	2016-2017	

8. Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?

Yes ✔   No ☐

If yes, has the College applied for availing the autonomous status?

Yes ☐   No ✔

9. Is the college recognized?

a. by UGC as a College with Potential for Excellence(CPE)?

Yes [ ]   No [✓]

If yes, date of recognition :……………………(dd/mm/yyyy)

b. for its performance by any other governmental agency?

Yes [ ]   No [✓]

If yes, date of recognition :……………………(dd/mm/yyyy)

10. Location of the campus and area in sq.mts:

Location*	Rural & Hilly Area
Campus area in sq.mts.	30,351
Built up area in sq.mts.	17,955

(* Urban, Semi-urban, Rural, Tribal, Hilly Area, Any others specify)

11. Facilities available on the campus (Tick the available facility and provide numbers or other details at appropriate places) or in case the institute has an agreement with other agencies in using any of the listed facilities provide information on the facilities covered under the agreement.

- Auditorium/seminar complex with infrastructural facilities: ✓ **168.59 sq. meter**
- Sports facilities
  * Play-ground : ✓
  * Swimming pool
  * Gymnasium: ✓

- Hostel
  * Boys' hostel : ✓
    i.   Number of hostels – 03
    ii.   Number of inmates – 47
    iii. Facilities: Drinking Water, 24X7 Power Backup, Hot Water, Attached Toilet Bathroom, Gymnasium, reading room, TV room.

   *   Girls' hostel: ✓
     i.   Number of hostels – 02
     ii.   Number of inmates – 59
     iii.   Facilities: Drinking Water, 24X7 Power Backup, Hot Water, Attached Toilet Bathroom, Gymnasium, reading room, TV room.

   *   Working women's hostel
     i.   Number of inmates
     ii.   Facilities (mention available facilities)

- Residential facilities for teaching and non-teaching staff (give numbers available—cadre wise): ✓

Teaching: 2   Non-teachings: 2

- Cafeteria – ✓
- Health Centre – ✓

First aid, Inpatient, Outpatient, Emergency care facility,

Ambulance- ✓

Health center staff –

Qualified doctor	Full time	Part-time ✓
Qualified Nurse	Full time	Part-time

Facilities like banking, post office, book shops: ✓

- Transport facilities to cater to the needs of students and staff : ✓
- Animal house : Not Applicable
- Biological waste disposal : Not Applicable
- Generator or other facility for management/regulation of electricity and voltage : ✓
- Solid waste management facility : ✓
- Waste water management : ✓
- Water harvesting : ✓

12. Details of programmes offered by the college (Give data for current academic year)

Sr. No.	Programme Level	Name of the Programme/ Course	Duration	Entry Qualification	Medium of instruction	Sanctioned/ approved Student strength	No. of students admitted
1.	Under-Graduate	Engineering	4 years	12th pass & CET Score	English	360	280
2.	Post-Graduate	Engineering	2 years	UG E&TC & Allied Branches with eligible GATE Score	English	18	06
		MBA	2 years	Any Graduate with CET Score	English	60	50
3.	Integrated Programmes PG						
4.	Ph.D.						
5.	M.Phil.						
6.	Ph.D						
7.	Certificate courses						
8.	Any Other (specify and provide details)						

13. Does the college offer self-financed Programmes?

Yes [✓]   No [ ]

If "yes", then how many? [02]

14. New programmes introduced in the college during the last five years if any?

Yes [✓]   No [ ]

M.E. – E&TC (PG), Mechanical (UG) (2nd Division) from Academic Year 2012-13

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15. List the departments: (respond if applicable only and do not list facilities like Library, Physical Education as departments, unless they are also offering academic degree awarding programmes. Similarly, do not list the departments offering common compulsory subjects for all the programmes like English, regional languages etc.)

Faculty	Departments (eg. Physics, Botany, History etc.)	UG	PG	Research
Engineering	Civil Engineering, Computer Engineering, E&TC Engineering, Information Technology, Mechanical Engineering,	✓		
Engineering	ME E&TC – VLSI & Embedded		✓	
Management	Master of Business Administration		✓	

16. Number of Programmes offered under (Programme means a degree course like BA, BSc, MA, M.Com…)

  a.   annual system

  b.   semester system   ✓

  c.   trimester system

17. Number of Programmes with

a.   Choice Based Credit System   ✓   : 05

b.   Inter/Multidisciplinary Approach

c.   Any other (specify and provide details)

18. Does the college offer UG and/or PG programmes in Teacher Education?

        Yes   No   ✓

If yes,

  a. Year of Introduction of the programme(s)……………………… (dd/mm/yyyy) and number of batches that completed the programme

  b. NCTE recognition details (if applicable)

  Notification No.: …………………………… Date: ……………………… (dd/mm/yyyy)

  Validity: …………………………

c. Is the institution opting for assessment and accreditation of Teacher Education Programme separately?

Yes ☐   No ☐

19. Does the college offer UG and/or PG programmes in Physical Education?

Yes ☐   No ☑

If yes,

a. Year of Introduction of the programme(s)……… (dd/mm/yyyy) and number of batches that completed the programme

b. NCTE recognition details (if applicable)

Notification No.: ………………………… Date: ……………………… (dd/mm/yyyy)

Validity: …………………………

c. Is the institution opting for assessment and accreditation of Teacher Education Programme separately?

Yes ☐   No ☐

20. Number of teaching and non-teaching positions in the Institution

Positions	Teaching faculty						Non-teaching staff		Technical staff	
	Professor		Associate Professor		Assistant Professor					
	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F
Sanctioned by the UGC/University/ State Government	05	03	14	07	54	27	72	35	34	17
Recruited	03	--	03	02	72	31	63	03	26	08
Yet to recruit	02	03	11	05	00	00	09	32	08	09
Sanctioned by the Management/ society or other authorized bodies	05	03	14	07	54	27	72	35	34	17
Recruited	03	00	03	02	72	31	63	03	26	08
Yet to recruit	02	03	11	05	00	00	09	32	08	09

*M-Male*F-Female

21. Qualifications of the teaching staff:

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.							
Ph.D.	03				02		05
PG	01		03	02	38	12	56
UG					01		01
Temporary teachers							
Ph.D.							
PG					16	08	24
UG					18	04	22
Part-time teachers							
Ph.D.							
PG							
UG							

22. Number of Visiting Faculty /Guest Faculty engaged with the College.

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23. Furnish the number of the students admitted to the college during the last four academic years.

Categories	2013-2014		2014-2015		2015-2016		2016-2017	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	06	14	14	22	18	20	19	22
ST	01	03	04	07	10	06	03	04
OBC	155	155	320	194	236	214	326	240
General	879	396	579	421	766	492	390	283
Others	13	16	41	26	29	23	21	23

24. Details on students enrollment in the college during the current academic year: (2016-17)

Type of students	UG	PG	M. Phil.	Ph.D.	Total
Students from the same state where the college is located					
Students from other states of India					
NRI students					
Foreign students					
Total					

25. Dropout rate in UG and PG (average of the last two batches)

UG [　　] PG [　　]

26. Unit Cost of Education

(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled)

    (a) Including the salary component   Rs.   /-

    (b) Excluding the salary component   Rs.   /-

27. Does the college offer any programme/s in distance education mode (DEP)?

Yes [　　]   No [✓]

If yes,

    a) Is it a registered center for offering distance education programmes of another University?

    Yes [　　]   No [　　]

    b) Name of the University which has granted such registration.

    [　　　　　　　　　　　　　　　　　　　　　　　　　　　　]

    c) Number of programmes offered

    [　　　]

d) Programmes carry the recognition of the Distance Education Council.

Yes [ ]   No [ ]

28. Provide Teacher-student ratio for each of the programme/course offered

Sr. No.	Name of Course	Teacher-Student Ratio	
		UG	**PG**
1	Civil Engineering	1:16	NA
2	Computer Engineering	1:14	NA
3	E & TC Engineering	1:16	1:12
4	Mechanical Engineering	1:17	NA
5	Information Technology	1:18	NA
6	MBA	NA	1:15

29. Is the college applying for Accreditation?

Cycle 1 [✓]   Cycle 2 [ ]   Cycle 3 [ ]   Cycle 4 [ ]

Re-Assessment: [ ]

(Cycle 1 refers to first accreditation and Cycle 2, Cycle 3 and Cycle 4 refers to re- accreditation)

30. Date of accreditation* (applicable for Cycle 2, Cycle 3, Cycle 4 and re-assessment only)

Cycle 1: **N.A** (dd/mm/yyyy) Accreditation Outcome/Result………...

Cycle 2: **N.A** (dd/mm/yyyy) Accreditation Outcome/Result………...

Cycle 3: **N.A** (dd/mm/yyyy) Accreditation Outcome/Result………...

* Kindly enclose copy of accreditation certificate(s) and peer team report(s) as an annexure.

31. Number of working days during the last academic year. (Including vacation)

[292]

32. Number of teaching days during the last academic year
(Teaching days means days on which lectures were engaged excluding the examination days)

[181]

33. Date of establishment of Internal Quality Assurance Cell (IQAC) IQAC

[**28/05/2016**] (dd/mm/yyyy)

34. Details regarding submission of Annual Quality Assurance Reports (AQAR) to NAAC.

AQAR (i) ………………..(dd/mm/yyyy)

AQAR (ii) ……………… (dd/mm/yyyy)

AQAR (iii) ………………(dd/mm/yyyy)

AQAR (iv) ………………(dd/mm/yyyy)

35. Any other relevant data (not covered above) the college would like to include. (Do not include explanatory/descriptive information)

2. CRITERIA – WISE INPUTS

Criterion I: Curricular Aspects

1.1   Curriculum planning and implementation

1.1.1   State the vision, mission and objectives of the institution, and describe how these are communicated to the students, teachers, staff and other stakeholders.

Vision

To transform young aspirant learners towards creativity and professionalism for societal growth through quality technical education.

Mission
1. To share values, ideas, beliefs by encouraging faculties and students for welfare of society.
2. To acquire the environment of learning to bridge the gap between industry and academics.
3. To enhance diverse carrier opportunities among students for building nation.
4. To transfer the suitable technology, particularly for rural development.

The vision and mission statements of the college are clearly indicative of the objectivities of the National Policy on Education demanding that centers of higher education should perform multiple roles through technical knowledge, acquiring new capabilities and producing an intelligent human resource pool through challenging teaching, research and extension activities. So the outgoing students can serve in better ways to society and tackle environmental issues.

Publication and dissemination of vision and mission:
The vision and mission of the institution are being spread through different means to ensure that they reach out to all the stake holders of the system. The vision and mission of the institute and the various academic programmes are displayed and projected in,
- ✓ Institute website : http://www.snjb.org/engineering
- ✓ Central library
- ✓ Administrative cabins, office rooms and laboratories
- ✓ Department notice boards, HoD's cabin and faculty cabins
- ✓ Rules & regulations books
- ✓ Institute diaries and monthly monitoring records
- ✓ Attendance register
- ✓ Laboratory Record note books

Apart from this, they are also disseminated to all the stakeholders of the programmes through,

- ➢ Orientation programmes conducted during the induction of a new academic batch
- ➢ Awareness workshops to students and faculty periodically
- ➢ Alumni meet of various alumni chapters

1.1.2 How does the institution develop and deploy action plans for effective implementation of the curriculum? Give details of the process and substantiate through specific example(s)

SNJB's late Sau. Kantabai Bhavarlalji Jain College of Engineering, Neminagar, Chandwad, Dist. Nashik is affiliated to Savitribai Phule Pune University, Pune. It follows the University designed curriculum and academic calendar for teaching learning scheme. The college operates at UG courses in five disciplines: Civil Engg. Comp. Engg., E&Tc Engg, Mechanical Engg. and Information Technology along with PG courses in E&Tc. Engg and MBA.

Keeping in mind our goals and objectives, the students are trained to be employable and entrepreneur and Industrialist through holistic education and skill development programmes during their stay in the campus.

Although, University prepares an Academic Calendar that specifies the duration of the semester, the commencement and conclusion dates of the semesters. We plan several interactive activities for students during this semester period.

In the beginning of the academic year, an action plan is prepared by the IQAC. It consists of pre-semester activities, teaching plan and course file of the subject by individual faculty. The demand is asked from each faculty through head of department for reference books, new equipment, software and other learning resources. The lab incharge are also directed to take care of maintenance and servicing of existing equipment and machinery. Further, they are also asked to get certified calibration of measuring devices before commencement of the academic year.

In tune with the changes of syllabi made by University, the college procures required number of books and research journals in the Central Library. The students can search their books and availability in the library by using SEROSOFT ERP software.

All departments have their own computers laboratory with internet connectivity. Most of faculty is also equipped with computing facility.

Head of Department (HOD) of all departments form a committee for Workload distribution and time table preparation. The responsibility of monitoring the effective implementation of Academic Calendar and designed time table is assigned to Academic Coordinator.
Academic Coordinator also monitors the status of syllabus completion in theory and practical on monthly basis. If any deficit found or required, HODs make provision for extra lectures in any

subject(s). At the same time, all the staff members are fully aware about their roles and responsibilities in proper execution of curriculum and devoted to it.

Thus, through sound understanding of individual responsibility of every associated member of curriculum, effective implementation of curriculum is achieved by the college.

The Outcome Based Education (OBE) is implemented based on predetermined objectives and learning outcomes. The senior faculty members in the subject have taken steps to include emerging trends along with designed curriculum of University. Assessment strategies and delivery methods are executed for OBE system. The student's feedback is taken time to time for effective implementation of curriculums.

The **Programme Outcomes (PO)** are established to relate with the skills, knowledge, and attitude that the student acquires at the end of the program. PO's are defined in accordance with the **Graduate Attributes as per NBA/ABET** guidelines.

The following committees are functioning in the institution to take care of the administrative and academic measures according to norms stipulated by AICTE and Affiliating University.

1. The constitution of the Academic Council:
Members Constituting the Academic Council
1. Chairperson – Principal
2. Executive officer –Head of Department
3. Senior Teaching Representatives- Academic Coordinator of Dept.
4. Class Teacher
5. Project coordinator
6. Seminar coordinator,
7. Industry visit coordinator
8. Students of SE/TE/BE as MESA coordinators

Apart from the above, the Institution has the following Committees for better monitoring and governance of the curriculum.

Sr. No.	Name of the Committee	Frequency of meeting
1	Class committee	Every month
2	Academic committee	Twice in semester
3	Time-Table committee	Once in a semester
4	Project Review Committee	Trice in a semester
5	Internal audit committee	Once in a semester

Class Committee:

The Class Committee consisting of teachers of the concerned class, 3 topper students and HOD. They meet first week of every month in the semester to discuss and monitor the objectives implementation for improving the overall performance of the students of the class and achievement of POs.

Academic Committee:

The academic Committee comprises all the academic coordinators of different department headed by Principal. Guidelines are issued time to time by Principal
Feedback on every course is also taken from students at the end of the course and all these feedback are analyzed to tune up the syllabi. The various feedbacks are also used as an assessment tool to establish the attainment of the PO"s and PEO"s.

1.1.3 What type of support (procedural and practical) do the teachers receive (from the University and/or institution) for effectively translating the curriculum and improving teaching practices?

The Institute is affiliated to Savitribai Phule Pune University, Pune and it follows the curriculum prescribed by University, which is well transacted to the students after serious preparation and critical thinking by seasoned and dedicated academicians.
The syllabus revision takes place once in four years for which University conducts Faculty Development Programme for the new subjects introduced in the syllabus. Almost each teacher is part of syllabus revision process.

- ➢ The Institute provides ample learning materials and other teaching and reference material like Journals, Magazines, High speed internet connectivity software, overhead projectors etc. to enable its teachers to ensure effective delivery of curriculum.
- ➢ The institute encourages the faculty members to participate in national and international seminars, FDPs, workshops with financial and duty leaves support..
- ➢ The Institute has the Faculty Empowerment Strategy for the growth and development of the faculty.

The institution encourages the faculty to pursue higher studies and to take up the research work individually or in collaboration.

1.1.4 Specify the initiatives taken up or contribution made by the institution for effective curriculum delivery and transaction on the Curriculum provided by the affiliating University or other statutory agency.

The Institute follows the curriculum and academic calendar strictly, designed by Savitribai Phule Pune University, Pune. Further, the Institute has developed a systematic approach over the years for:-

1. Recruitment of well qualified faculty is done by the college, as per the recommendations of AICTE and requirement by the college.
2. Recruited faculty is provided with all the necessary resources as well as teaching learning materials for sound preparation of their subject course. Faculties are also supported to cope up with updated curriculum and delivery methods, by the allotment of sufficient funds and necessary infrastructure arrangements through proper planning.
3. College also motivates the faculty to participate in university level curriculum development and updating programmes. College is also actively involved maintaining sound coordination with the university to organize sessions/workshops for discussion on updated curriculum and enriching it.
4. Various faculty members of the college have been involved in university level decision making and planning in the past few years.

The progress is regularly monitored to ensure effective delivery with following checks:
- Regular monitoring by class coordinators.
- Monthly monitoring by HoD and Principal.
- Facilities like e-learning, Internet, Wi – Fi.
- Facility of departmental Library.
- Feedback of faculty (Twice a year).
- Feedback of COs.

1.1.5 How does the institution network and interact with beneficiaries such as industry, research bodies and the university in effective operationalization of the curriculum?

Faculties of college are involved in carrying out several credential projects at various industries as part of B. E. academic curriculum, the results of which help the college get substantial recognition among industrial fraternity.

➢ Civil Engineering department offers consultancy for cube testing, surveying and construction management.
➢ Mechanical Engineering department offers consultancy for solar gadgets, energy audits and design of some industrial products.
➢ Computer Engineering and Information Technology department offer various audit course and programs for society and some Industries. In fact computer engineering department exchange knowledge with industry persons for various programs.
➢ Electronics and Tele-communication department provides training to students for circuit design and instrumentation.
➢ Students are encouraged to take internships in the during their winter/summer vacations, which helps the students to get insights into actual working environment of industry.

Thus, industries also get opportunities to inculcate into the students the values needed to function, once students are out of college life.

➢ College maintains a consistent communication and dialog with its alumni, thereby strengthening the relation with industry.

➢ The suggestions made by industry from time to time towards development of curriculum are communicated by college to university.

1.1.6 What are the contributions of the institution and/or its staff members to the development of the curriculum by the University?(number of staff members/departments represented on the Board of Studies, student feedback, teacher feedback, stakeholder feedback provided, specific suggestions etc.

Designing and restructuring of courses is done by the affiliating University. The college, however, makes significant contribution in the curriculum design and development through its faculties who are the members of different university level committees to supervise and monitor the design, development and updation of academic curriculum at various points of time. The Institute arranges workshops for syllabus implementation and design, whenever permitted by University.

The feedbacks from students and Industry persons for the desired changes in the curriculum are also obtained. Inputs from alumni and employers are also taken into consideration. The faculties who are on various academic bodies communicate the suggestions/recommendations to the University for redesigning the curriculum for appropriate and effective inclusion. The following feedbacks are taken time to time:

1. Feed of students for administration once in a year
2. Teacher's feedback by students twice in a year
3. Project examiner feedback once in a year
4. OR/PR examiners feedback twice in a year,
5. Employer feedback once in a year
6. Alumni feedback once in a year, and
7. Parent's feedback once in a year.

1.1.7 Does the institution develop curriculum for any of the courses offered (other than those under the purview of the affiliating university) by it? If 'yes', give details on the process ('Needs Assessment', design, development and planning) and the courses for which the curriculum has been developed.

As of now, no such specific course has been individually developed by the college for university. Moreover, computer engineering department offer computer literacy to primary

school teachers and Anganwadi (Pre-primary teachers) employees and Mechanical engineering department offers AUTOCAD learning to MCVC students as a social responsibility.

1.1.8 How does institution analyze/ensure that the stated objectives of curriculum are achieved in the course of implementation?

The college has established effective communication with all the stakeholders to ensure that the objectives of the curriculum are achieved in the course of implementation. The college ensures the achievement of the stated objectives of the curriculum through the critical analysis of the examination results, and achievements in placements, sports, cultural and extension activities. For this purpose, institution has developed a systematic approach of self-assessment with the help of following parameters:-

1. Level of performance of students in various university examinations such as Online Exam, mid semester exam and end semester exam, assignment, seminars and projects.
2. Performance of students in oral, practical and project examinations, which reflect understanding of students as well as their ability to express and implement their knowledge in their own way.
3. The result analysis of all departments is done after declaration of result of each course and it is compared with university result and discussed in presence of senior faculty and management members.
4. Opinion of teaching staff about curriculum and performance of students.
5. The Institute analyzes its objectives through Course outcome and program, outcome feedbacks also.
6. The college ensures the progess of slow learners as well as advanced learners.
7. The feedback from the students, parents, and Industry persons help in analyzing the outcome of the curriculum being taught.
8. Feedback from the pass-out students during alumni meet, about usefulness of curriculum in their field of job/work/business.

1.2   Academic Flexibility

1.2.1   Specifying the goals and objectives give details of the certificate/diploma/ skill development courses etc., offered by the institution.

Goals and Objectives

The stated vision and mission of the Institution are reflected in the academic programmes of the college through following objectives:

1. Institute offers under graduate and post graduate programmes in Engineering, Technology and Management Studies for welfare of rural India.
2. The Vision and Mission of the various departments are framed in such a way that they are in line with the Vision and Mission of the Institute
3. Compulsory laboratory training and projects are offered as part of curriculum
4. Visiting faculty for providing special training for improvement of communication skill, aptitude skill development of students and junior faculty.
5. Co-curricular and extracurricular activities are executed through various departments to shape the personality of the students.
6. Organizing workshops, seminars, providing hands-on training in the emerging areas of Engineering, Technology and Management.
7. Encouraging the students to carry out innovative projects
8. Encouraging the faculty members to visit leading institutions for academic interaction
9. Encouraging the faculty members to visit leading industries for collaboration and projects
10. Motivating and encouraging students and faculty members in research, consultancy and new product / process development and knowledge enhancement
11. Help to modifying/up gradation of curricula and syllabi by sending feedbacks and inputs from industry and professional bodies to board of studies of SPPU.
12. Encouraging the faculty members for consultancy, publications and IPRs
13. Provision to students to take up multidisciplinary electives of their choice.
14. Organizing internships and industrial training to students
15. Providing outbound training for the students
16. Imparting cultural and social values among the students through NSS and other extension activities.
17. Some programs are designed for computer awareness, cashless transaction to nearby villagers, primary school teachers.

To ensure both knowledge and skill development and to enhance competence among the students the college offers the following skill development courses:

1. Language lab practice to improve communication and spoken skill in English.
2. Training program on CATIA to Mechanical engineering students,
3. Training program and practice on CNC machine.
4. Training program to students on Aptitude capability.
5. Personality development programs to students and staff members.
6. Training on PLC and automation by TAACT (Teknocrat's Academy of Automation and Control Technology) through partial funding by Institute.
7. Organizing various training courses, whenever required and demanded by students or staff, such as Latex.

1.2.1 **Does the institution offer programmes that facilitate twinning/dual degree? If 'yes', give details.**

University has no structured dual-degree programmes offered in the Colleges.

1.2.2 **Give details on the various institutional provisions with reference to academic flexibility and how it has been helpful to students in terms of skills development, academic mobility, progression to higher studies and improved potential for employability. Issues may cover the following and beyond:**

- *Range of Core / Elective options offered by the University and those opted by the college*

   Where-ever options exist College provides for a reasonable choice to the students, within the restrictions of existing departments in the College. In order to update recent technology, faculties from industries are asked to engage expert talk for staff and students.
The guest faculty is also arranged to cater to the course requirements beyond the departments existing in the College.

- *Choice Based Credit System and range of subject options*
   Presently, the college is following semester based grading system as described by university. Hence, Choice Based Credit System is not used.

- *Courses offered in modular form*
   No such courses are made available by the University.
   However, where required, the College arranges for specific training programmes for the students, at times with resources from outside the College.

- *Credit transfer and accumulation facility*
   Presently, such facility is not available with the university.

- *Lateral and vertical mobility within and across programmes and courses*
   Presently, such facility is not available with the university.

- *Enrichment courses*
   Certain training programs are arranged to enhance aptitude and technical hands on of the students. Trainings are TAACT, CATIA, LINUX, Latex are for enrichment of courses.

1.2.3 Does the institution offer self-financed programmes? If 'yes', list them and indicate how they differ from other programmes, with reference to admission, curriculum, fee structure, teacher qualification, salary etc.

Yes. All the programmes offered by the institute are self-financing programmes. The following are the list of programmes offered in the institute.

Under Graduate Programmes – B.E, 4 years duration

Sr. No.	Course	Sanction Intake	Curriculum	Fee Structure
1	B.E. Civil Engineering	60		
2	B.E. Computer Engg.	60		
3	B.E. Electronics and Telecomm. Engineering	60	Prescribed by SPPU, Pune	Pravesh Shikshan Shulk Samiti & Government of Maharashtra.
4	B.E. Information Tech.	60		
5	B.E.Mechanical Engineering	120		

Post Graduate Programmes in Engineering – M.E – 2 years duration
- ➤ **M.E.** Electronics and Telecommunication Engineering
- ➤ **MBA**

The admission of students to the First Year of B.E. programmes is done through rules and regulations lay down by Directorate of Technical Education (DTE), Mumbai, and Maharashtra. The admission process is based on the marks in the qualifying examinations which are Maharashtra Health and Technical Common Entrance Test (MHT-CET) and Joint Entrance Examination (JEE), state level ranking and allotment to various institutions, as per the option exercised by the candidates.

Fee Structure
The fee structure is as prescribed by Shikshan Shulk Samiti & Government of Maharashtra.

Teacher qualification
The qualification of teachers for all the programmes is as prescribed by All India Council for Technical Education. The institution has *110* faculty members, with *5** of them holding Ph.D., *10* pursuing Ph.D and others with Masters/ M.Phil qualifications.

Salary
The Salary structure is as per the VIth pay commission recommendations for the specific cadre.

1.2.4 Does the college provide additional skill oriented programmes, relevant to regional and global employment markets? If 'yes' provide details of such programme and the beneficiaries.

Yes

In the existing Semester-based programmes, the curriculum does not have provisions for such programmes. However, Departments organize seminars, workshops, and expert lectures to address some of these aspects.

1.2.5 Does the University provide for the flexibility of combining the conventional face-to-face and Distance Mode of Education for students to choose the courses/combination of their choice" If 'yes', how does the institution take advantage of such provision for the benefit of students?

The University has no provision for a mix of Distance Learning for the students enrolled in regular programmes in the College.

1.3 Curriculum Enrichment

1.3.1 Describe the efforts made by the institution to supplement the University's Curriculum to ensure that the academic programmes and Institution's goals and objectives are integrated?

Some of our faculties of our college are the part of the Board of Studies of Savitribai Phule Pune University, Pune. The book on Engineering Heat Transfer authored by one our faculty Prof. M. M. Rathore is prescribed as reference book in curriculum of T.E. Mechanical.

The senior faculties of our institute participate in syllabus framing and its detailing workshops and contribute by supplying inputs.

The programmes taught in the college are in accordance with the goals and objectives of the college. In order to create employability, the career oriented

Courses are also conducted in the college. These efforts help to develop all round performance of the students.

1.3.2   What are the efforts made by the institution to enrich and organize the curriculum to enhance the experiences of the students so as to cope with the needs of the dynamic employment market?

Considering the feedback from the employers (HR Heads of Recruiters) and other stakeholders, the college conducts Courses in Spoken English, and Communication Skills. In order to enrich and organize the experiences of the students, they are encouraged to participate in the seminars, workshops, conferences, etc. The Institute extends financial support to the award winning students.

To cope up with the dynamic employment market, the college runs at least two programmes of skill development in each department.

The college conducts Entrepreneurship Awareness Programme through the Entrepreneurship Development Cell. The field visits, and educational tours are also organized for the students to get firsthand knowledge in the concerned areas.

All these efforts resulted into creating more and more employment opportunities for the students. Our Placement Cell is very active as during last five years, many students are placed in the various organizations like Wipro, Infosys, Patni Computers, persistent systems Ltd, Zensar Tech, td, Bosch Ltd. Mahindra & Mahindra Ltd, Risabh Instruments, L&T Infotech. TechMahindra Ltd, Axis Bank, ICICI Bank etc. The students are also guided for GATE examination at our Competitive Examination Guidance Cell.

1.3.3   Enumerate the efforts made by the institution to integrate the cross cutting issues such as Gender, Climate Change, Environmental Education, Human Rights, ICT etc., into the curriculum?

The curriculum of various courses is prescribed by the University. However, the faculties attending curriculum development workshops address the cross cutting issues while framing and revising the syllabi.
The college has also taken efforts to integrate the issues addressed during the implementation of the curriculum as follows:

Gender:
- ➢ Through Internal Complaints Committee' the girl students are made aware of issues regarding gender sensibility.
- ➢ The college conducts group discussion, seminars especially for girls students for their issues.

- The college has conducted seminars to create awareness among the students about gender balance.
- The college conducts Gender Audit of the students and submits it to DTE every year.

Climate Change, Environmental Education:

- A seminar on Waste Management by Civil Engineering is arranged for students and nearby villagers.
- Save Environment campaign and tree plantation are done every year. Every department is asked to protect tree plantation of their area allotted by administration.
- Projects on non-conventional energy like solar energy, wind energy are promoted to students.
- Students are asked to campaign to save girl and save tree in their villages.

ICT:

- Teaching-learning process using LCD projectors, CDs, cassettes etc.
- Information about the activities/events/meetings to the faculties through SMSs and E-mails.
- Free internet service to all stakeholders.
- ERP software to record attendance, marks, activities of students and staff.

1.3.4 What are the various value-added courses/enrichment programmes offered to ensure holistic development of students?

Moral and ethical values

To ensure holistic development and to inculcate the moral and ethical values of students, the Institute offers Jain Muni Pravachans.

Employable and life skills

Pre placement training is provided by the institution to the students to enhance the employability skill which is required by the industry. Institution also conducts personality and communication skill development program as a part of regular pre placement training. Institution support its students to attend internship program provided by the industry

Community orientation

The institution has provided free computer training programs to its surrounding students, primary school teachers, Anganwadi workers.

1.3.5 Citing a few examples enumerate on the extent of use of the feedback from stakeholders in enriching the curriculum?

The institute has a mechanism to obtain the feedback from all its stakeholders. Feedback on the enrichment of curriculum is obtained by its alumni and industry partner time to time to make it effective for the employment point of view. The feedback is conveyed to the university to incorporate in the updating syllabus

1. Hostel Accommodation feedback for improving living and comfort level of students.
2. Mess Feedback to monitor and improve food and hygienic conditions.
3. Canteen feedback to improve food quality and service conditions.
4. Employer feedback to inculcate Industry culture.
5. Project examiner feedbacks to improve project standards.
6. Student's feedback to improve and impart effective teaching.

1.3.6 How does the institution monitor and evaluate the quality of its enrichment programmes?

The institution has SEROSOFT ERP software to monitor the day by day activity of academic process. The institution maintains an academic calendar where various meetings of all the levels of the institution are conducted to evaluate the academic activity.

1.4 Feedback System

1.4.1

1.4.2 Does the College have a formal mechanism to obtain feedback from students regarding the curriculum and how is it made use of?

Yes. The college has a formal mechanism to obtain feedback from the students regularly regarding the curriculum and the method of delivery by the faculty concerned. The measures and processes used to improve courses and curriculum through feedbacks

At the end of every semester the feedback is obtained from the **students** on the curriculum, teaching learning process, Course outcomes (COs), Campus Stay, Mess and canteen.

The **class committee meeting** is conducted once in a month with HoD. It consists of 2 students representing the class and the faculty member handling various courses. This provides feedback

on the curriculum and courses. Such feedback collected are consolidated by the Academic Coordinator and given appropriate consideration for further teaching span.

A **separate Graduate exit feedback** is collected from the graduating students for their satisfaction on the attainment of programme outcomes, the contents of curriculum and the general infrastructure of the department, central library, administration. Their genuine suggestions are taken into consideration for improvement in the systems.

Feedback from **alumni and employers** are also collected to compute the attainment of Program Educational Objectives. The informal discussions with them are also are taken into consideration to revise the curriculum, lab facilities, central facilities etc. A thrust is given to identify the areas where graduates failed to perform as per expectations of the employers.

1.4.3 How many new programmes/courses were introduced by the institution during the last four years? What was the rationale for introducing new courses/programmes?

No new course is admitted during last four years. Only intake of UG program was increased by 60 during Academic year 2011-12. Increase in intake capacity of UG programme of Mechanical Engineering was due to demand for that programmes by society and students.

Criterion II: Teaching, Learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1   How does the College ensure publicity and transparency in the admission process?

Publicity

✓ Maharashtra State Directorate of Technical Education (DTE) offers wide publicity to effect admission in various colleges of the state for UG and PG programmes.

✓ Figure 1 shows that, how institute takes efforts to reach up to the students. In addition to it we also spread the relevant information by Social Media like Facebook, What's-App, Radio Channels etc.

✓ Institute is authorized to run ARC/FC Center

✓ Institutes depute its faculty members to conduct the carrier guidance seminar & distribute college brochure in several Junior Colleges.

✓ Institute also participate in various Educational Fairs (Exhibition)

✓ Advertisement in many leading Jain Magazines like Jain Jagruti etc.
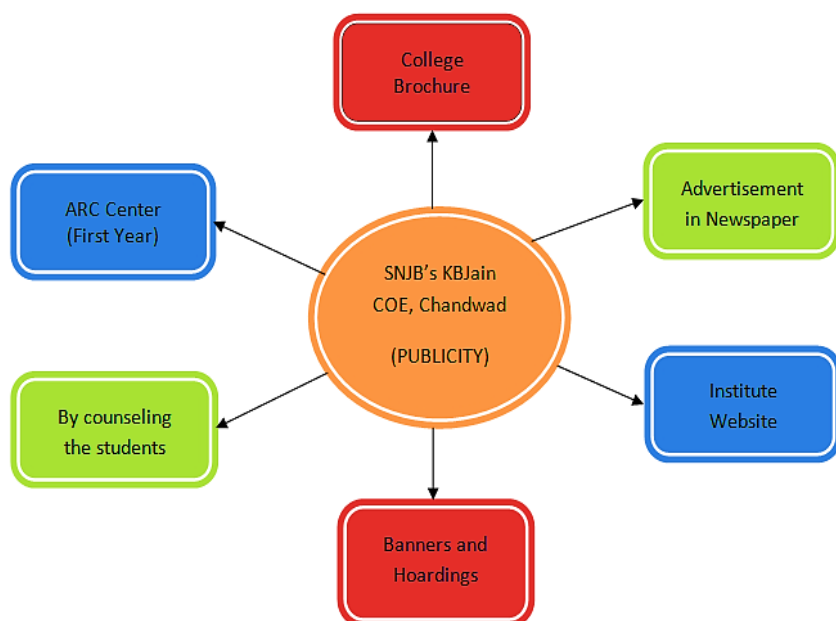
Figure 1:- Publicity of admission process

Publicity Record

Sr. No.	Name	Details
1	DTE Calendar	www.dte.org.in
2	Paper Advertisement	DainikPudhari, Lokmat, Divya Marathi, Punyanagari, Lokmat Times, Lokmat Marathi, Divya Marathi
3	Radio	FM 93.5
4	Jain Magazine	Jain Jagruti, Jain Sandesh
5	Website	www.snjb.org
6	Social Media Site	Facebook, What's app
7	Facilitation Center (Earlier ARC)	Proof Attached
8	College Notice Board	Proof Attached
9	College Boucher	Leaflet, Handout, Prospectus
10	Seminar by Faculties	Carrier Guidance

Transparency

To ensure transparency in the admission process, merit lists of the various programmes, are displayed on the http://www.dtemaharashtra.gov.in website.

✓ Admissions are supposed to be done with this merit list.

✓ 20% of Institute level quota seats are filled at the Institute level as per the admission rules of DTE.

✓ 51% of Minority quota seats are filled at the Institute level as per the admission rules of DTE & Ministry of Minority Authority.

✓ Institute assure transparency in admission process and strictly comply with the rules and regulations formulated by the SPPU and Government of Maharashtra.

Sr. No.	Activity for Maintaining Transparency	Remark
1	For all Type of Admission giving Advertisement in two newspaper	

2	Preparing Merit list on basis of Inter–se- merit	
3	Display of merit list on website & notice board	
4	After one year completion giving branch change to all eligible candidate on the basis of Inter-se- merit	
5	No entry to students in examination hall it without admit card or I card	
6	All information display on notice board time to time	
7	C.C.TV at Exam Control room & college premises	
8	Suggestion Box for Students	

2.1.2 Explain in detail the criteria adopted and process of admission (Ex. (i) merit (ii) common admission test conducted by state agencies and national agencies (iii) combination of merit and entrance test or merit, entrance test and interview (iv) any other) to various programmes of the Institution.

✓ The institute have to mandatory involve in centralized admission process of Director of Technical Education (DTE), Maharashtra State Government. The Institute participates in CAP process conducted by DTE for 17% seats.

✓ As per DTE Rules and regulations the institute admits 20% seats as an Institute 51% Minority Quota.

✓ The criteria for the selection of students for admission in different level of courses are given in following table:-

Table 1:- Criteria for Admission

Sr. No.	Course / Programme Name	Criteria for Admission	Detailed Admission Process
1	UG	Candidate should pass 10th exam with minimum 50% mark in physics ,chemistry & math or Physics , math & biology (is relaxed 45% to category candidate) and should	80% admission will be allotted by CAP including 51% minority seats also 20% admissions will be done by institute itself

Sr. No.		Branch	Criteria	
			appear for common entrance test conducted by the compentetent authority also he should apply to CAP	
2	DSE		Candidate Should passed diploma in concern branchwith secured 45% marks (40% in case of backward class category)	All seats (Late all entry of vacant seats) will be filled by A.R.A. in CAP rounds
3	PG-ME		Candidate Should Passed BE or Its Equivalent Degree course with 50% marks 7 should appeared for GATE Exam in same	80% admission is allotted by admission Authority through centralized admission process
4	PG-MBA		A.Y. any graduate with 50% & should appeared for MHT-CET or equivalent exam	80% admission

2.1.3 **Give the minimum and maximum percentage of marks for admission at entry level for each of the programme offered by the college and provide a comparison with other colleges of the affiliating university within the city/district.**

Sr. No.	Programme	Course	Year	Exam	Min	Max
1	UG	Civil Engineering	2016-17	MHT-CET	42	91
			2015-16		24.61	70.75
			2014-15		25.90	73.76
			2013-14		36	100
2	UG	Computer Engineering	2016-17	MHT-CET	46	91
			2015-16		18.38	83.83
			2014-15		15.63	70.06
			2013-14		40.66	101
3	UG	E&TC Engineering	2016-17	MHT-CET	33	62
			2015-16		21.61	64.25
			2014-15		30	69
			2013-14		41	95
4	UG	Information Technology	2016-17	MHT-CET	38	114
			2015-16		14.61	75.92
			2014-15		14.35	69.23
			2013-14		12	72
5	UG	Mechanical Engineering	2016-17	MHT-CET	35	90
			2015-16		5.92	72.63
			2014-15		27.44	72.84

Sr. No.	Programme	Course	Year	Exam	Min	Max
			2013-14		34	94
6	PG	MBA	2016-17	MHT-CET	9.72	92.04
			2015-16		2.34	77.01
			2014-15		0.83	86.13
			2013-14		0.5	104
7	PG	ME E&TC	2016-17	MHT-CET	9.02	13.38
			2015-16		4.84	68.47
			2014-15		5.83	65.13
			2013-14		26	62.53

Comparison of the Affiliating University within the city/district

College Name					KKW IEER, Nashik		SND CoE, Yeola		Mansura, Malegaon	
Sr. No.	Programme	Course	Year	Exam	Min	Max	Min	Max	Min	Max
1	UG	Civil Engineering	2016-17	MHT-CET	47	130	44.67	84.6	13	101
			2015-16		21.807	91.2			19.3	80.7
			2014-15		35.660	88.2				
			2013-14		57	151				
2	UG	Computer Engineering	2016-17	MHT-CET	52	146	45.67	83.3		
			2015-16		17.42	97.71				
			2014-15		30.78	94.45				
			2013-14		39	132				
3	UG	E&TC Engineering	2016-17	MHT-CET	35	123	44.67	74.6	45	74
			2015-16		27.79	88.51			1.12	97.4
			2014-15		30.67	89.97				
			2013-14		59	136				
4	UG	Information Technology	2016-17	MHT-CET	46	131	23.57	43.56		
			2015-16		39.5	89.85				
			2014-15		30.59	80.45				
			2013-14		43.5	121				
5	UG	Mechanical Engineering	2016-17	MHT-CET	45	108	45	84.3	14	71
			2015-16		15.808	87.181			11.9	91.3
			2014-15		30.859	88.285				
			2013-14		57	123				
6	PG	MBA	2016-17	MHT-CET	31	62				
			2015-16		5.217	64.79				
			2014-15		0.83	70.44				
			2013-14		23	114				
7	PG	ME E&TC	2016-17	MHT-CET			1.4	8.4		
			2015-16							
			2014-15							
			2013-14							

Name of College: Malegaon, Yeola etc…..

2.1.4 Is there a mechanism in the institution to review the admission process and student profiles annually? If 'yes' what is the outcome of such an effort and how has it contributed to the improvement of the process?

Yes.

✓ The Institute has self-mechanism to monitor its admission process and student profile every annually.

✓ Every year, admission process is carried out through DTE's CAP round.

✓ The Review meeting of the college admission committee is held wherein the entire admission process is monitored and innovative ideas are incorporated to refine the admission process in order to make the mechanism student-friendly.

Student Profile

Profile of the every student is created as databank in ERP and same is maintained in hard copy by Class coordinators and student section and efforts are taken for continuous monitoring the performance of every student. This database is also used for Training & Placement activity and also sharing with parents.

For academic year 2016-2017 almost all seats were full and the filled up data is given in table below.

Category Course	Male	Female	Open	SC	ST	OBC	NT	Other (SBC)
Mechanical	270	150	195	12	1	202	10	0
Civil	184	93	164	5	1	95	12	0
Computer	136	141	192	6	1	72	6	0
E&TC	124	100	128	8	1	82	4	1
IT	85	130	117	5	1	85	4	3

2.1.5 Reflecting on the strategies adopted to increase / improve access for following categories of students, enumerate on how the admission policy of the institution and its student profiles demonstrate/reflect the National commitment to diversity and inclusion.

✓ SC/ST

- ✓ OBC
- ✓ Women
- ✓ Differently abled
- ✓ Economically weaker sections
- ✓ Minority community
- ✓ Any other

✓ Institute follows the reservation criteria and polices framed by DTE in considering both state and central government reservation policies.

✓ As per DTE guidelines the seats are reserved for SC/ST, OBC, Women, Differently able, economically weaker sections and Minority community.

✓ For economically backward students Earn and learn scheme is also conducted.

✓ The students belonging to reserve categories receive scholarships, and eligible candidates under OPEN category also receive EBC scholarships of state Govt. The list of total students admitted during last four years under different reservation categories are listed in following table.

Table 2.1.5 (a):- Students admitted under different categories in last four years.

Year	Number of students admitted								
	SC	ST	NT	OBC	SBC	Jain Minority	Minority	Open	Total
2013-14	20	04	22	310	07	455	476	1275	1637
2014-15	36	11	57	514	10	413	423	1000	1622
2015-16	38	16	50	450	02	367	394	1258	1815
2016-17	36	05	36	536	04	302	340	955	1572

Table 2.1.5(b) Total number of boys and girls admitted in last four years

Year	2013-14	2014-15	2015-16	2016-2017
No. Of Boys	257	232	250	191
No. Of Girls	158	149	158	145

2.1.6 Provide the following details for various programmes offered by the institution during the last four years and comment on the trends. I.e. reasons for increase/decrease and actions initiated for improvement.

Table2.1.6 Department wise students admitted list.

Programmes	Year	Number Of Applications	Number of Students admitted	Demand Ratio
UG		A1	A2	A2/A1
Mechanical Engineering	2013-14	120	120	1
	2014-15	120	117	0.975
	2015-16	120	120	1
Civil Engineering	2013-14	60	60	1
	2014-15	60	60	1
	2015-16	60	60	1
Computer Engineering	2013-14	60	58	0.966
	2014-15	60	59	0.983
	2015-16	60	60	1
E&TC Engineering	2013-14	60	57	0.95
	2014-15	60	46	0.76
	2015-16	60	38	0.63
IT Engineering	2013-14	60	32	0.53
	2014-15	60	18	0.3
	2015-16	60	36	0.6
PG				
E&TC (VLSI & Embedded Systems)	2013-14	18	18	1
	2014-15	18	17	0.944
	2015-16	18	16	0.88

Reasons for increase / decrease actions initiated for improvement:

✓ All the seats of undergraduate are filled against the sanctioned intake capacity with an exception for the year 2014-15 (Few seats of Information Technology and Electronics Engineering were vacant). The demand for particular engineering disciplines has been changing year on year. Recently disciplines such as Mechanical, Civil and Electrical Engineering are more popular amongst the applicants.

✓ On the whole economic and employment scenario affects the number of applications for engineering courses.

Actions initiated for improvement:

✓ The college is concentrating on publicity for its credentials, facilities and support, to reach parents and students.
✓ Efforts to reach out the junior colleges for publicity.

2.2 Catering to Student Diversity

2.2.1 How does the institution cater to the needs of differently-abled students and ensure adherence to government policies in this regard?

Institute identifies the need of differently- abled students and provide them following special facilities.

➢ Priority to Elevator
➢ Special arrangements for university exams
➢ Ramp
➢ Additional Library Amenities.
➢ Seating arrangement in class and Labs
➢ Superior care by Faculties & Counselors for these candidates.
➢ Extra time is also given to such students in all examination as per directives of SPPU.
➢ The Institute is fully adhering to government policies regarding the needs of differently-abled students.

2.2.2 Does the institution assess the student's needs in terms of knowledge and skills before the commencement of the Programme? If yes, give details on the process.

➢ The overall ranking and qualifying marks in the merit list of the student gives an idea about overall knowledge of the student, which is called as entry level analysis.

➢ Institute organizes orientation programme for newly admitted students and their parents to help them in understanding the engineering curriculum and university examination process.

➢ At the commencement of the course, initial lectures are devoted to conduct orientation of subject and to identify students need and special lectures are conducted to link the curriculum gap.

➢ The students are made aware of the facilities, faculty expertise, rules, regulations, discipline code of the institute and the teaching learning process.

➢ At second year level, foundation training for critical subjects and laboratories is conducted to cope with the challenges faced in subjects.

2.2.3   What are the strategies adopted by the institution to bridge the knowledge gap of the enrolled students (Bridge/ remedial/ Add-on/ Enrichment Courses, Etc.) to enable them to cope with the Programme of their choice?

Understanding the knowledge and interest of the enrolled students, the institute has following strategies in order to bridge the gap:

➢ Institute carefully considers the content of syllabus which the student studied till 12th standard. It has the mechanism to identify the gap in the syllabus to understand the engineering curriculum of first year.
➢ The students are counseled regularly by the senior faculty team and address them on their studies and personal issues so that, they can perform well in academics
➢ Language Lab has been established and the students are trained to improve proficiency in English language.
➢ An effort is taken to motivate students by organizing various activities and courses for personality development programmes, workshops, technical festivals, conferences and symposia.
➢ A class teacher and a mentor are deputed for every class in order to identify the weak students and help him/her with counseling and intensive coaching**.**

➢ Students according to their interest are advised to attend internship/implant training programs in vacations.

➢ The Diploma students who join through lateral entry scheme lacks with fundamentals in Engineering Mathematics, which in turn affects their performance in analytical subjects. Hence remedial classes in engineering mathematics are organized to upgrade their mathematical skills.
➢ Institute organizes International Conferences (ICRTET) on Recent Trends in engineering, workshops and expert lectures. Students are encouraged to participate in paper presentations and project competitions organized by parent Institutes and other colleges.

2.2.4   How does the college sensitize its staff and students on issues such as gender, inclusion, environment etc.?

➢ To create awareness of equality in students & staff, Institute provide equal opportunity to male & female staff and students for all the activities &process which include

administrative, teaching, co-curricular, extracurricular, sports, deputation to the courses, programs, higher studies, appointments, committees, placements etc.

➢ Institute arranges the Computer Awareness Program for Woman in surrounded areas.

➢ Institute organizes special training programs on value and moral for teaching & non-teaching staff and also organizes various special guidance program specifically for female students under special scheme provided by Savitribai Phule Pune University (SPPU) Student Welfare Organization (SWO).

➢ The staff members and students are treated equally in religious aspects.

➢ An equal opportunity is given to both boys and girls while participating in the various activities viz. Cultural, Technical events, sports etc. organized by institute.

➢ Institute celebrates Woman's day, Teacher's Day and Engineer's Day and World Environment Day.

2.2.5 How does the institution identify and respond to special educational/learning needs of advanced learners?

Institute carries out analysis of University Exam Results for all the departments and each course. The advance learners are identified based on their performance in internal class tests, assignments, theory and practical.

To cater the special educational/ learning needs of advanced learners all faculty members continuously interact, motivate such students and identify their learning needs.

- Guardian Faculty members or Mentors conduct meetings and interact regularly with student to monitor the academic performance and needs of advance learners.
- Advanced learners are promoted to attend conferences, workshops and publish research papers or articles in Journals or Paper Presentation competition.
- Annual Magazines publish articles of advance learners.
- Apart from this such students are motivated to actively organize and attend various Technical competitions such as Model making, Robotics, Project Design and Coding.
- Institute organizes various workshops and training programs on contents beyond the syllabus to cater the learning need of such students.
- External agencies are hired by the institute to identify and develop the intellect of advanced learners.

2.2.6 **How does the Institute collect, analyze and use the data and information on the academic performance (through the Programme duration) of the students at risk of drop out (students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections etc. who may discontinue their studies if some sort of support is not provided)?**

The institute collects, analyze and use the data and information on the academic performance of the students at risk of drop out is as follows:

Collection of data

The following ways are adopted to collect the data and information on the academic performance of the students at risk of drop out.

- University exam result analysis is available with each department which helps in getting the academic performance of students in preceding examination.
- The record of results of internal examinations viz. unit test, mock online test, preliminary examination, mock oral and practical are maintained by the department.
- The Mentor (TG) regularly interacts with the students, from which institute gets information about slow learners, physically challenged and economically weak students.
- Class Coordinator / Teachers (CC/CT) are also appointed to keep a record of students of their respective class like leave record, result analysis record, record of extra and co-curricular activities etc.
- The details about the students in various categories like SC/ST, OBC, Minority, EBC, physically challenged etc. can be available from admission information.

Institute uses the data and analysis information as follows

- ➢ **Support for physically challenged**
- ➢ Regular counseling sessions are conducted to motivate physically challenged students by CC and Mentor (TG).
- ➢ Awareness regarding benefits reserved for physically challenged students such as scholarships from government and nongovernmental organizations, special employment opportunities and reservations in higher studies in various sectors is continually provided by social welfare/ scholarship / Training and placement section.
- ➢ To meet academic and examination requirements in physically challenged cases, all arrangements are made at institute level.

Support for Slow learner

- ➢ Regular Mentor (TG) meetings are arranged to find out and discuss the problems of weak students.

- Accordingly separate tasks are assigned to individual cases to improve academic performance.

- Extra sessions are conducted in zero hours for slow learners and specially prepared subject wise course material is made available.

- Problem solving sessions are arranged on individual basis before examinations in preparation leave to boost their confidence.

Support for Economically Weaker Section

- Under Earn and Learn scheme derived by SPPU, institute identifies economically weak students. The identified students are allocated to Library and office sections for assistance in zero hours and remuneration is paid to them.
- Information about different scholarship schemes from various government and non-government organization is provided by institute.
- Awareness about different education loan scheme is made available to them.
- Students under economically weaker section are allowed to pay fees in installment, which are not eligible for any scholarship.

Disadvantaged sections of society

- The students of SC/ST/EBC/OBC/minority categories are given benefits in admission and scholarship. The social welfare department guides them about the scholarship/social welfare scheme available to the student as per Government norms.
- The students are guided at student section in institute office about the Social Welfare Schemes which helps the students to apply for these schemes in proper format and procedure.

2.3 Teaching-Learning Process

2.3.1 How does the college plan and organize the teaching, learning and evaluation schedules? (Academic calendar, teaching plan, evaluation blue print, etc.)

In order to have effective teaching, learning and evaluation process, SNJB's KBJ follows a systematic approach.

- Before the commencement of semester, the college drafts academic calendar considering the SPPU academic Calendar in consultation of the Academic Monitoring Committee and Principal. It consist the **working days, holidays, internal assessment test schedule and dates of important events in the semester which helps the students, parents and educators to plan their academic year.**

- Each department prepares its own academic calendar respectively by including departmental events.
- Course allotment is normally done in advance by head of department probably **according to teacher's choice** such that faculty members, especially new comers, get sufficient time for preparation of necessary teaching aids.
- After subject allotment is complete, the concerned faculty member prepares the teaching plan, course file for theory and practical subjects as per the SPPU syllabus, referring to **departmental academic calendar which contains the details regarding institutional objective to be achieved**, course contents, and type of teaching aids.
- Internal Assessment tests are conducted strictly as per the guidelines of SPPU, the affiliating University. The answer books are evaluated by the concerned faculty based on scheme of evaluation, immediately after the examination.
- Students get an opportunity to look over the books as well as the evaluation scheme and seek clarifications, if any.

Specimen copies of academic calendar, teaching plan and evaluation blue print are given below

2.3.1.1 Academic Calendar
- The Academic Calendar is prepared before the commencement of the semester and becomes the guiding document for scheduling teaching, learning and evaluation activities.
- It is being prepared by every department for every program before the semester starts. It consists of all the events conducted by that department for a semester and also includes the common events conducted by the institute.
- The calendar is circulated and uploaded in the notice board for easy access to students and faculty member.
- The Academic Schedule provided by the SPPU is also taken into consideration while preparing the Academic Calendar.
- The Academic Calendar comprises of:
  - ✓ Dates for commencement of classes
  - ✓ Class Committee Meeting Dates
  - ✓ Online Students Feedback Dates
  - ✓ Schedule for weekly tests, internal tests and model exams
  - ✓ Details of Holidays
  - ✓ International Days to be celebrated
  - ✓ Various department level activities

We get Academic Calendar from SSPU and we prepare College and Department's Academic Calendar

2.3.1.1.1 SPPU Academic Calendar
2.3.1.1.2 SNJB's Late KBJ College of Engineering : Academic Calendar
2.3.1.1.3 Department wise Academic Calendar

2.3.1.1.4 Time Table:

Time table of regular lectures for the academic semester is prepared and displayed on the notice board and ERP, department wise in which master timetable, Class time table, Lab Time table, Individual Time table Included. There is academic monitoring committee appointed by the Principal/HOD who monitors day to day conduction of the lectures based on the time table displayed.

2.3.1.2 Teaching Plan

At the Next Level, detailed teaching plan according to syllabus is prepared.

Course file is prepared by concerned faculty members for all the subjects before the start of the semester taking into consideration, the difficulty level of the syllabus content. The teacher ensures the completion of the syllabus and possible revision and it is approved by the HOD.

The teaching plan generally highlights the content and total lectures for completion of the units in the syllabus.

SNJB's Late Sau. KantabaiBhavarlalji Jain College of Engineering, Chandwad
DEPARTMENT OF COMPUTER ENGINEERING
Teaching Plan

Name of Faculty :							(<<Course Code>>)	
Designation :			Course Name:				Marks : 100	
Academic Year : 2016-17			Class :SE/TE/BE CompTh (Hrs/Week) : 3					
			Total Hours as per : SPPU:38Value Addition: 09 Total :47					
Lecture #	Unit #	Topic Name	Planned Date	Date of Completion	Resources Required	Remark		Sign
1	Pre	Prerequisite : Test on Perquisite						
2		Coverage of Syllabus of Perquisite 1						
3	1							
4								
5								
6								
7		Unit Test						
8		Revision Session for Needy/Poor Students						
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21		Mock Test : In-Semester						
22		Remedial Classes						

The Course File contains Course Planning and Delivery aspects. Contents are as follows:

Sr.No	Topic	Page No
01	University Syllabus and Course Outcomes (Attested by HoD)	
02	Teaching Plan	
03	Individual Time Table / Workload	
04	Roll Call List (Attested by Student Section)	
05	Unit wise Study Material	
06	PPT's (In the form of CD/DVD/Blog if any)	
07	Oral / Assignment / MCQ (if any) (Questions based on Bloom's Taxanomy)	
08	Result Analysis of University Exam with Graph / History (Last Three Years)	
09	University Question Papers (InSem / EndSem) with Solution(Recent)	
10	Academic Calendar	
11	CIS (Course Information Sheet)	
12	Gap Analysis	
13	Gate Questions and Analysis (If Applicable)	
14	Pre- Semester work list	
15	Unit wise Questions	
16	Prerequisite Test Paper with answer and result	
17	Unit test Question Paper	
18	Subject wise Progress Report	
19	University Question Paper Analysis Report	
20	Course Exit/Outcome Survey Analysis	
21	Any addition study material used	

2.3.1.3   Evaluation

2.3.1.3.1   Theory Subject evaluation
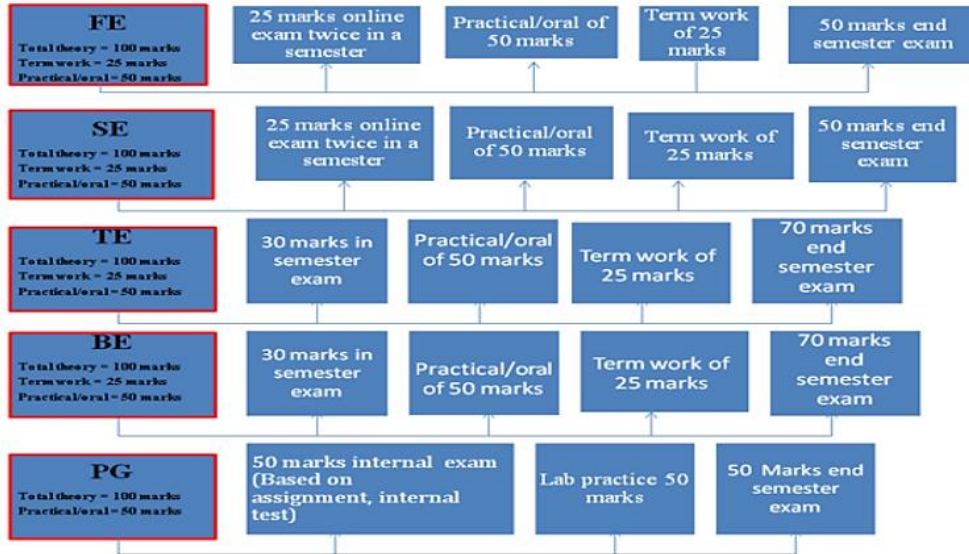
2.3.1.3.2   Practical evaluation

2.3.2 How does IQAC contribute to improve the teaching –learning process?

Internal Quality Assurance Cell is a key function for the Institution which formulates academic and administrative polices.

2.3.2.1   Objective of IQAC:

Continuous improvement and sustenance in academics and administration through evaluation, monitoring, recognizing weak areas and strengthening.

2.3.2.2   Composition of the IQAC

➢ **The IQAC consist of senior leaders of the institution, senior faculty members from each department**

➢ **IQAC meets once in three months for the development and application of quality**

Benchmarks/parameters for various academic and administrative activities of the institution

The composition of the IQAC is given below:

S.No	Name of the Faculty	Affiliation	(IQAC) Designation

2.3.2.3   Internal Quality Audit Cell (IQAC) functions for Academic department

➢ Checking of Course files (Theory and practical)

➢ Checking of Theory and practical attendance sheets

➢ Checking of Staff feedback

➢ Checking of Lab manuals

➢ Checking Progress of students and report to parents.

➢ Preparation of the Semester wise Quality Assurance Report (AQAR) as per the guidelines and parameters of NAAC.

2.3.2.4   Internal Quality Audit Cell (IQAC) functions for Administrative Department

➢ Creating a Quality Culture in the institution.
➢ Ensures teaching-learning process takes place as per the schedule.

- Arrangement for feedback system from students, parents, alumni and others and **Corrective Action based on the feedback received.**
- Organization of workshops, Conference, seminars on quality related themes.
- Arranging faculty development program (FDP).
- Documentation of the various programmes/activities leading to quality improvement.
- Preparation of the Semester wise Quality Assurance Report (AQAR) as per the guidelines and parameters of NAAC.

2.3.3 How learning is made more student-centric? Give details on the support structures and systems available for teachers to develop skills like interactive learning, collaborative learning and independent learning among the students?

2.3.3.1 Student Centric Learning
- Self-learning assignments are given to the students based on e-resources at the end of each unit.
- Students are motivated to undertake projects and apply for intellectual rights like patents.
- Students are given opportunity to work with faculty on research projects
- Interdisciplinary projects and Industry sponsorship based on current technology.
- Students are encouraged to take part in Group discussion ,Exhibitions ,Project
- Competition, Technical events, Seminar, Workshop, Mock oral test

2.3.3.2 Collaborative Learning
- Students Discussion Forums is created via special chair arrangement in internet lab for project development process.

2.3.3.3 Support structure and system
- E-learning initiatives have been taken up to promoted for learning.
- Central and departmental library are available to promote the culture of reading books and to kindle creative.
- Computer and internet facilities are available for every student in Well-equipped Laboratories.
- To make the classes more interesting and effective, Quiz Programs, Video Clippings etc. are used through ICT enabled class rooms.
- **Training and placement cell organizes activities like personality development**
- **Guidance, aptitude test, quiz, group discussion and debate competition etc.**
- Availability of online courses (e.g.,) NPTEL, which can be taken up at the convenience of students.
- Guidance given for GATE, GRE, Civil Services Exams.

- ➢ Entrepreneurship development cell organizes expert lectures , entrepreneurship
- ➢ Awareness camp
- ➢ Industrial visits are organized for the students to gain practical knowledge about
- ➢ the functioning in various firms and industries
- ➢ **Expert lectures, seminars, workshops, paper presentation and industrial visits are arranged for students in every semester/ academic-year.**
- ➢ College publishes Magazines, in which number of students shows their creativity through their articles, poems, drawing.

2.3.4 How does the institution nurture critical thinking, creativity and scientific temper among the students to transform them into life-long learners and innovators?

2.3.4.1 Critical Thinking
- ➢ Critical thinking habit of students is nurtured in the classroom.
- ➢ Each subject teacher has a question bank on his/her subject framed in manner that students are encouraged to think and find the answers. Such questions are based on the fundamentals of the subject.
- ➢ Teacher Guardian Scheme is so effective that every teacher explore hidden talent in there student and make them enough confident to participate in every event.
- ➢ Industrial visits are organized for the students to gain practical knowledge about the functioning in various firms and industries. This knowledge gives broad thinking in the minds of students.
- ➢ College publishes Magazines with new innovative topic so students are forced to think with different ideas.

2.3.4.2 Creativity
- ➢ Students encouraged taking up projects and applying for patents.
- ➢ 15 minutes activity is conducted every day through which students try to share ideas and views among themselves after the lecture in classroom.
- ➢ Institute promotes students to participate in various national level project competitions organized by other institutes and universities such as "Avishkar " implemented through Board of College and University Development(BCUD), SPPU, Pune
- ➢ Institute nourishes the students to select industry sponsored projects.
- ➢ Institute motivates students to take part in National Service Scheme (NSS).
- ➢ College publishes Magazines, in which number of students shows their creativity through their articles, poems, drawing.

2.3.4.3   Scientific Temper

➢ Students are promoted to become members of Professional society's chapter and student forums like IEEE, IETE, ISTE, CSI, ACM and IEI.
➢ Students are encouraged to present and publish research papers in conferences and journals.

2.3.5   What are the technologies and facilities available and used by the faculty for effective teaching? Eg: Virtual laboratories, e-learning - resources from National Programme on Technology Enhanced Learning (NPTEL) and National Mission on Education through Information and Communication on Technology (NME-ICT), open educational resources, mobile education, etc.

➢ Teaching-learning is made effective and interesting by the use of illustrations, Power point presentations, e-learning, open educational resources etc., apart from conventional teaching.
➢ Students are encouraged to register for online certification courses viz., Coursera etc.
➢ Blogs an online Learning Management System has been deployed to make learning more effective.
➢ The faculty members also use e-learning resources like NPTEL (National Programme on Technology Enhanced Learning)
➢ Internet facility and Wi-Fi in the campus are available.
➢ Library is enriched with e-learning resources, e-journals, magazines, subscriptions to National and International journals for students/staff in every semester.
➢ Additional departmental library facility is available for students and faculty.
➢ ICT enabled classrooms with LCD Projectors are available.

2.3.6 How are the students and faculty exposed to advanced level of knowledge and skills (blended learning, expert lectures, seminars, workshops etc.)?

2.3.6.1 Student

➢ In the beginning of every semester, each head of department conducts meeting tochalk out the programmes and activities to be conducted during the semester. This information is incorporated in the department calendar.

➢ Department drafts the time table of programme well in advance.

➢ Institute organizes and motivates students to participate in project competitions, paper presentation, poster presentation, workshops and conferences.

➢ Guest lectures are arranged regularly by eminent people from industries and academia.

➢ Students uses teacher's blog for knowledge.

➢ Final year students are allowed to choose open elective from other disciplines and to undergo interdisciplinary projects for blended learning.

➢ Institute has the student's chapters of professional bodies like CSI, IEI, ISRD which organizes events to expose the students for advanced level of technology.

2.3.6.2 Faculty

➢ The institute sponsors faculty members for FDP/Workshops/STTP"s organized by university and other premier institutions.

➢ Institute organizes seminar conferences, workshops, short term training program and faculty development program to upgrade the knowledge level.

- The institute sponsors and encourages the faculty and students to present papers in national and international conferences.
- Faculties are encouraged to publish papers in national and international journals.
- Faculty members get training for advanced courses under center of excellence program of every department.
- Guest lectures by eminent people from industries and academia are arranged regularly.
- Teachers create their own blogs to share knowledge with students.

2.3.7   Detail (process and the number of students \benefitted) on the academic, personal and psycho-social support and guidance services (professional counseling/mentoring/academic advise) provided to students?

2.3.7.1   Academic Support

- In Departmental Library book reading via Kindle is available.
- Laboratory Manuals is provided to Students in hard copy.
- Guest lectures, extra classes and tutorial for some subjects is arranged as per need.

2.3.7.2   Personal and psycho-social support
- Mentor scheme is followed in the institute.
- Particular mentor is in contact with the parents of these students on regular basis.
- A full time Professional Counselor, (Clinical Psychologist) is available. Psychological counseling is provided by our sister institute Medical Collage Further, the hostel wardens are accessible to students any point of time during their off working time.
- Improved result in mentor is shown according to following formats.

Academic year	Branch	Names of Students - Year	Counselling		
			Type	By	Impact

2.3.7.3   Guidance Services
- Mentor scheme is followed in the institute.
- Every faculty has been assigned some students for counseling purpose. This scheme helps the students to overcome personal problems, especially when they enter as fresher to the college and also they continuously monitor the attendance and progress of the students.
- To facilitate the students take up higher studies, the institution provides guidance to them on entrance tests like GRE, TOEFL, GMAT, CAT etc.

- Entrepreneurship Development Cell at provides guidance to students on entrepreneurship ventures.
- The training & placement cell provides professional counseling to the students.
- Training & Placement officer (TPO) and HODs takes feedback from the employers during their campus placement visits and identifies the area to impart training to the students.
- The personality development, skill development and entrepreneurship awareness sessions are organized for students.
- College magazines and NSS camp aware the students about social responsibility and upcoming global and national problems.

2.3.8   Provide details of innovative teaching approaches/methods adopted by the faculty during the last four years? What are the efforts made by the institution to encourage the faulty to adopt new and innovative approaches and the impact of such innovative practices on student learning?

2.3.8.1   Approaches / methods adopted by the Faculty
- Well organized teaching plans are prepared for all theory and lab courses on a before the commencement of semester.
- Power point presentations are available on blog for all subjects for easy communication of complex concepts covering all difficult topics
- Case studies
- Multiple choice questionnaire and quiz programmes are made available for all subjects
- Use of ICT
- Usage of technology for effective teaching learning
- Quiz Programs on Topics
- Guiding projects
- Student Seminars
- Arranging guest lecture for difficult topics
- e-Resources
- e-learning through NPTEL
- Registration and Completion of online courses
- Faculties distribute tutorial problems, assignments, lecture notes and other relevant materials through ERP or blog and that can be assessed by the students at any time.

2.3.8.2   Efforts taken by the Institution for faculty
- Teachers are encouraged to publish papers in journals and present in national & international conferences.
- Teachers are encouraged for doing Masters/Ph.D degrees.
- Sponsorships are given to faculty for higher studies.

- Frequent FDP on Teaching Learning process
- Good collection of new edition published books in library
- Arranging training at Industry on specific domain Giving training on emerging technologies
- Online facilities for learning

2.3.8.3 Impact of Adopting Innovative Teaching Approaches/Methods

- Classes becoming more effective and enjoyable for the students
- Moving from Teacher Centric Learning to Student Centric Learning
- Improving the confidence of the students by making them do activities
- Anytime availability of materials for easier reference
- Making the students understand the concepts better through case studies and demos
- Improvement in pass percentage in university examinations
- Increase in No. of students placed in product and core companies
- Students are using this knowledge in their companies/Business.
- Due to such innovative practices improvement in academic performance of students and placement takes place.
- Such practices have strengthened the bonding between students and teachers and inculcated better relationships and paved for towards improved learning.

2.3.9 How are library resources used to augment the teaching- learning process?

- SNJB KBJ has central library used by both the members of faculty and students.
- Our Central Library houses a wide variety of resources like books, journals, magazines, e-resources, video CDs to assist teaching learning processes.
- Separate digital library with the setup of 10 computers with internet and intranet facilities is provided.
- Library is equipped with more than 4000 NPTELs audio- video lectures CD's for Engineering courses.
- Library has subscribed e-journals for its users: Elsevier (Science Direct) J-Gate (Social and Management Sciences)
- The Central library of Institute has provision of spacious reading room with 180 students.
- It offers very inceptive and peaceful ambient for students.
- It is remain open morning 9.30 am to 4.30 p.m in regular (and till 12 midnight during examinations.) Uninterrupted power back up and CCTV surveillance is installed in the library and reading room.
- A separate reading room is provided for the staff in the same library.

- The University revises syllabus every four years. Hence there is a need to procure new books. All faculties from every department actively participate in procurement of the latest edition of the books in the library as per the requirements given in the new syllabus.
- Addition to central library each department have departmental library also.
- Details of library facilities.

Sr. No.	Branch	No. of Titles	No. of Volumes	Journals / Magazines	
				National	International
1.	Civil Engineering	667	4593	11	Elsevier (Science Direct) J-Gate (Management & Social Science)
2.	Computer Engineering	684	4382	08	
3.	Electronics & Telecommunication	696	4356	08	
4.	Information Technology	427	3839	06	
5.	Mechanical Engineering	739	4617	09	
6.	Applied Science & Mathematics	629	3912	07	
7.	ME	85	534	12	
8.	MBA	370	3128	13	
9.	General Books	345	1735	06	
TOTAL		4642	31096	80	

2.3.10 Does the institution face any challenges in completing the curriculum within the planned time frame and calendar? If 'yes', elaborate on the challenges encountered and the institutional approaches to overcome these.

There are generally no challenges in completing the curriculum within the planned time frame and calendar but in some cases institute faces problems to complete the curriculum in time as below.
- Late admitted students due to delays in admission process carried out by DTE, especially for direct second year admitted students (lateral entry).
- Late admission of other state candidates due to their result problem in their state board.
- University provides uniform time frame for covering curriculum, but certain subjects need extra classes to convey the subjects more clearly.
- Actions to overcome the challenges:

- Additional classes are planned for late admitted students after college time and on holidays to cover the topics.
- Tutorials are arranged for mathematical subjects for extra practice.
- For slow learners special efforts are taken by counseling.
- Extra labs sessions arranged to cover the practical.

2.3.11 How does the institute monitor and evaluate the quality of teaching learning?

- The teaching plan with study material or lecture notes is prepared by the faculty member well in advance and it is verified by the HOD.
- The actual progress of the subject is updated in the ERP, acknowledged by the class representatives and approved by the HOD on a daily basis.
- Student attendance monitoring and reporting of the same to the parents by SMS and letters.
- Portion completion status is obtained from the ERP tool to verify completion of the portion as per schedule.
- Monitoring through IQAC
- The student's feedback of faculty is informed to faculty about their weakness and suggestions.
- Management Review Meeting is conducted which in its agenda includes assessment of Teaching-Learning process.
- Result analysis of monthly class tests and prelims and remedial measures are taken.

2.4 Teacher Quality

2.4.1 Provide the following details and elaborate on the strategies adopted by the college in planning and management (recruitment and retention) of its human resource (qualified and competent teachers) to meet the changing requirements of the curriculum

Faculty strength of the college is:

Sanctioned student strength is:

Number of staff member outside the state is:

Department	Highest Qualification	Professor Male	Professor Female	Associate Professor Male	Associate Professor Female	Assistant Professor Male	Assistant Professor Female	Lecturer Male	Lecturer Female	Total
Civil Engineering	D. Sc./D. Litt	--	--	--	--	--	--	--	--	--
	Ph. D.	--	--	--	--	1	--	---	--	1
	PG	--	--	1	1	4	--	--	--	6
	UG							7	1	8
Computer Engineering	D. Sc./D. Litt	--	--	--	--	--	--	--	--	--
	Ph. D.	1	--	--	--	--	--			1
	PG	--	--	1	--	8	4			13
	UG							2	1	3
E&Tc Engineering	D. Sc./D. Litt	--	--	--	--	--	--			
	Ph. D.	2	--	--	--	--	--			2
	PG	--	--	1	--	6	6			13
	UG							1	2	3
Information Technology	D. Sc./D. Litt	--	--	--	--	--	--			
	Ph. D.	--	--	--	--	--	--			
	PG	--	--	--	--	6	7			13
	UG									
Mechanical Engineering	D. Sc./D. Litt	--	--	--	--	--	--			
	Ph. D.	--	--	--	--	1	--			1
	PG	1	--	1	--	18				20
	UG							6	1	7
MBA	D. Sc./D. Litt	--	--	--	--	--	--			
	Ph. D.	--	--	--	--	--	--			
	PG	--	--	--	--	5	3			8
	UG									
Applied Science	MPhil / PG					00	2	04	02	08
Total										107

Strategies adopted for recruitment and retention of human resources-
Recruitment strategies

➢ Institute follows AICTE and University norms for recruitment at all faculty position (e.g. Professor, Associate Professor, Assistant Professor etc.)

➢ Advertisement is published in national, state and local newspaper as well as made available on institute website.

➢ Before final interview with selection committee, demo lectures are conducted for all positions.

➢ In case of emergency, faculty recruitment is made through Local Selection Committee.

Retention strategies

- ➢ Payment / Salary are paid as per AICTE norms.
- ➢ **Institute deputes faculty members with sponsorship for higher studies in India and abroad.**
- ➢ Institute encourages faculty members to attend QIP, Conferences/ Workshop /Seminar /FDP at national and international level.
- ➢ **Leaves and vacation given as per government rules and regulations particularly maternity leave for lady faculty and staff.**
- ➢ Staff welfare through group insurance of all faculty and staff, provident fund, gratuity, service book maintenance etc.

2.4.1.1   Group insurance details –

Academic Year	Number of faculties insured	Annual premium per faculty/head	Total annual premium paid	Number of faculties settled claim
2012-13	147	506	74382	--
2013-14	167	506	86798	02
2014-15	79	500	41180	--
2015-16	100	513	53124	01
2016-17	114	518	59110	02

2.4.1.2   Staff Welfare fund –

Academic Year	Amount of contribution by each staff	Total collection per month	Number of faculties benefited
2012-13	--	--	--
2013-14	--	--	--
2014-15	--	--	--
2015-16	Teaching 50 NonTeaching 25	7000	01
2016-17	Teaching 50 NonTeaching 25	6725	--

2.4.1.3   Staff quarters –

Academic Year	Number of staff quarters available	Number of faculties benefited
2012-13	03	03
2013-14	03	03
2014-15	03	03
2015-16	03	03
2016-17	04	03

2.4.1.4 The existing faculty is encouraged for higher studies. The detail of faculty pursuing higher studies is as given below.

Academic Year	Number of faculties encouraged for PG	Number of faculties encouraged for Ph.D.	Total
2012-13	42	7	49
2013-14	11	5	16
2014-15	09	2	11
2015-16	12	3	15
2016-17	15	1	16

2.4.1.5 Does the College encourage diversity in its faculty recruitment? Provide the following departments-wise details.

Answer: Yes

Table A

Department	% of faculty, who are product of same college	% of faculty, From other colleges within the state	% of faculty, From other state	% of faculty, From abroad
Civil	40	60	--	--
Computer	35	65	--	--
E&TC	45	55	--	--
IT	53	47	--	--
Mechanical	21	79	--	--
MBA	22	78	--	--

Table B

Department	% of faculty, who from same university	% of faculty, From other university within the state	% of faculty, From other state	% of faculty, From abroad
Civil	53.34	33.33	13.33	-
Computer	76.5	17.6	5.9	-
E&TC	70.58	29.41	-	-
IT				
Mechanical	81.50	18.50	-	-
MBA				

2.4.2 How does the institution cope with the growing demand/ scarcity of qualified senior faculty to teach new programmers/ modern areas (emerging areas) of study being introduced (Biotechnology, IT, Bioinformatics etc.)?

Provide details on the efforts made by the institution in this direction and the outcome during the last three years.

➢ The Institute has appointed highly qualified faculty to handle new and emerging subjects as proposed in the curriculum of SPPU.

➢ Encourage faculty to do research in new emerging areas and percolate the same among the students.

➢ For best performing faculties, additional promotions are given by institute.

➢ To attract senior faculties, handsome salary packages are provided by institutes.

➢ Medical facilities are made available by institute for all faculties.

➢ Freedom and transparency in system encourages staff.

➢ Staff quarters are available for the staff members in the campus.

➢ Institute has a policy towards inviting senior professors / industry experts /visiting faculty to teach new technology or programmes and modern subjects whenever required.

➢ Overall number of faculty and their qualification has been improved in last three years.

➢ As a result of the efforts made by the institute, the results are improved drastically.

➢ The placement of AY 2015-16 has been improved by various efforts taken by department, Central Placement cell and institute compared to last two years.

2.4.2.1   Experts from academia as well as from industry are called to deliver guest lectures on modern and emerging areas.

Department	Year	No. of Expert Talks & Guest Lectures organized by college	No. of Seminar series
Civil	2013-14	6	-
	2014-15	2	-
	2015-16	4	-
Computer	2013-14	-	-
	2014-15	3	4
	2015-16	1	2
E&TC	2013-14	-	4
	2014-15	1	5
	2015-16	-	4
IT	2013-14	-	4
	2014-15	3	12

	2015-16	8	7
Mechanical	2013-14	-	-
	2014-15	-	-
	2015-16	-	-
MBA	2013-14		
	2014-15		
	2015-16		

2.4.2.2 How many visiting Professors are on the rolls of the College?

Department	Visiting Professors	No. of Visited College
Civil	-	
Computer	1	
E&TC	6	
IT	-	
Mechanical	-	
MBA		

2.4.2.3 Does the College have the required number of qualified and competent teachers to handle all the courses for all departments? If not, how do you cope with the requirements?

- Yes, the college has required number of qualified and competent faculties to handle all the courses for all departments.
- The College recruits faculty members strictly following AICTE and UGC norms. The advertisements are published in leading dailies. The entire details about the recruitment will be clearly given in the advertisement.
- Based on the qualifications, the initial screening will be done.
- **At Assistant Professor level recruitment, the second screening is done based on Presentation followed by personal interview.**
- **Associate Professor and Professor level recruitment is carried out as for Assistant professor.**
- The committee, consisting of Subject Experts, Management Members assesses the performance of the candidates

Following documents are maintained –
For new faculty –
  1. **Advertisement Details**
  2. **Candidate's Application**
  3. **Attendance record**
  4. **Assessment sheet while interview**

5. **Call letter**

For existing faculty
1. **Joining report**
2. **CAS format, institute appraisal format, college appraisal format (designation wise)**

2.4.3 Providing details on staff development programs during the last four years elaborate on the strategies adopted by the institution in enhancing the teacher quality.

2.4.3.1 Nomination to staff development programs

Academic Staff Development Programs	Number of faculty nominated
Refresher courses	
HRD Programs	
Orientation Programs	
Staff training conducted by the university	
Staff training conducted by other institutions	
Summer / winter schools, workshops, etc.	

2.4.3.2 Faculty Training Programs organized by the institution to empower and enable the use of various tools and technology for improved teaching-learning

Academic Year	Civil	Computer	E &Tc	IT	Mechanical	MBA	Total
2013-14							
2014-15			1				
2015-16							
2016-17			2				
Total							

2.4.3.3 Faculty Training programmes organized by the institution to empower and enable the use of various tools and technology for improved teaching-learning

a) Teaching learning methods/approaches-
b) Handling new curriculum-
c) Content/knowledge management-
d) Selection, development and use of enrichment materials-
e) Assessment -
f) Cross cutting issues -
g) Teaching learning material development, selection and use

a) Teaching learning methods / approaches
- Course Orientation programmes is conducted for FE/SE students at the beginning of semester.
- Faculties are trained for e – learning tools/ techniques.

b) Handling new curriculum
- Faculties are deputed to attend syllabus implementation workshop conducted by university.
- E-learning material viz. NPTEL lecture series, books animation, video, journal proceeding etc are referred.

c) Content / knowledge management
- Contents are delivered effectively through demonstration and experimentation.
- For sharing knowledge and content, modern aid such as LCD projector are utilized.

d) Selection development and use of enrichment material
- MOU's are signed with institutions like IIT and industries.
- Institute invites experts from other organization to impart knowledge about new developments.

e) Assessment
- Practical session is conducted for students and feedback is taken at the end of session.
- Institute gets benefited through self appraisal for staff development and students get improvement in learning feedback systems.

f) Cross cutting issues
- FDP imparted self motivation and improved retention rate of a faculty member.
- Gender biasing has been eradicated with good team work which helped in teaching-learning process.
- Audio visual Aids/ multimedia.
- Faculties are trained for different e- learning tools through audio-visual aids and multimedia in class room.

g) Teaching learning material development, selection and use
- Faculties are updated with new teaching aids which made them possible to collect information from various resources.

2.4.3.4 Percentage of faculty

- Invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies.
- Participated in external Workshops / Seminars / Conferences recognized by National/ international professional bodies.
- Presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies.

Department	Faculties invited as resource person in workshops/ seminars/ conferences (in %)	Faculties participated in external workshops/ seminars/ Conferences (In %)	Faculties presented papers in seminars/ Conferences (in %)	Faculties teaching Experience in other Colleges (in %)	Faculties industrial Engagement (in %)	Faculties international Experience in teaching (in %)
Civil						
Computer						
E&TC						
IT						
Mechanical						
MBA						

- How many Faculties from the institute, are members of different professional bodies?

Sr. No	Name of Professional Body	Number of faculty	Type of Membership
1	CSI	5	Life Time (2), 5 Years
2	IEI	16	Life Time
3	ISRD	04	Life Time
4	IAENG	06	Life Time
5	SDIWC	03	Life Time
6	IETE		
7	IES-HMT	01	
8	ISHRAE	01	

2.4.3.5 How the faculties are attached with the society? Does the institute encourage the faculties for the activities, which will be benefited to the society?

Sr. No	Name of Social Activity	Number of faculty	Institute Support (Yes/No)
Department			
Civil			
Computer	1. Blanket distribution for needy around chandwad town on 25th Dec. 2. FDP on "Computer Fundamental" for pre-primary teachers on 9th Dec 2016 3. One day workshop for 220 "Aanganwadi Sevika" 4. Computer Donation on the occasion of birthday of Shri. Zumbarlalji Bhandari	3+Students	Yes , support from SPACE student chapter and CSI. Yes Yes
E&TC	1. Dam 2.Awareness about "Cashless India" for Aadivasi Aashram School Students and Staff	3	Yes
IT			
Mechanical			
MBA			

2.4.4 What policies/systems are in place to recharge teachers? (eg: providing research grants, study leave, support for research and academic publications teaching experience in other national institutions and specialized programes industrial engagement etc.)

Provision of research grants
- ➢ Institute encourages faculty members to avail research grants from university / organization / departments.
- ➢ Institute supports the research activity by providing various facilities like equipment, software, e-resources for research publications, library books etc.

Study leave and research support
- ➢ Institute deputes faculty members for FDP / Workshop / QIP / Conferences / Seminar with on-duty leave.
- ➢ **The institute has policy to give study leave to faculty and send them on deputation for PhD course work.**

- The institute always put efforts to inculcate the research attitude in department by faculty as well as students

Academic Publications
- **The financial support for attending national/international conferences, conducted at various places is provided by the institute.**
- **The interactive sessions on research methodology, technical report writing, and various research areas are arranged wherein the faculty members can take inputs from renowned personalities from research organizations such as NIT, IIT etc.**

2.4.4.1 Teachers are motivated to apply for research grants from various funding agencies such as AICTE, BCUD.

Academic Year	Name of faculty & department	Funding agency	Grant grabbed	Name of project/research
2013-14	P.S.Desai	SPPU	1.7Lac	IPCA_ICA Algorithm for Face Recognition
2013-14	Prof. M. M. Rathore	BCUD, SPPU	2.6 lac	Test Protocol for Direct Steam generating solar concentrator
2014-15	Prof. R. C. Patil	BCUD, SPPU	1.2 lac	Comparative analysis of Solar Dryers
2014-2015	Prof.Tated Kavita S.	BCUD, SPPU	0.6 lac	Embedded based rice color sorter

2.4.4.2 Teachers are encouraged to carry out quality research and present/publish papers in national international conferences/journals.

Academic Year	Number of faculties	Papers published in International conferences	Papers published in International journals	Papers published in national conferences	Papers published in national journals
2013-14		18	10	2	1
2014-15		4	8	-	2
2015-16		53	60	1	-
2016-17					

2.4.4.3 The institute reimburses the conference registration fees, publication fees paid by the faculty.

Academic Year	Number of faculties benefited	Total reimbursement given by institute
2013-14		
2014-15		
2015-16		
2016-17		

2.4.4.4 The institute provides on duty leave for attending seminars, conferences, STTP and FDP.

Academic Year	Duty leaves provided for attending seminars	Duty leaves provided for attending conferences	Duty leaves provided for attending STTP	Duty leaves provided for attending FDP
2013-14				
2014-15				
2015-16				
2016-17				

2.4.4.5 Number of faculties availed on-Duty leaves, provided for attending seminars, conferences, STTP and FDP.

Academic Year	Number of faculties availed Duty leaves provided for attending seminars	Number of faculties availed Duty leaves provided for attending conferences	Number of faculties availed Duty leaves provided for attending STTP	Number of faculties availed Duty leaves provided for attending FDP
2012-13				
2013-14				
2014-15				
2015-16				
2016-17				

2.4.5 Give the number of faculty who received awards / recognition at the state, national and international level for excellence in teaching during the last four years.

Enunciate how the institutional culture and environment contributed to such performance/achievement of the faculty.

The institute always takes initiative for the development of faculty and creates a research culture. The efforts taken by faculty always recognizes by the Institute management. **Institute provides supports in term of duty leaves for attending conferences, workshops, seminars etc. The following staff members have received awards in last four years.**

Sr. No.	Name of Faculty	Award Received	Academic Year	Awarded by
1	Prof. Dr. Wankhede. V. A	Engineers Achievement Award	2015-16	Institution of Engineers
2.	Prof. Shirude. P. B	Lady Engineer Award	2013-14	Institution of Engineers
3.	Prof. P. R. Bhaladhare	Promising Engineer Award		Institution of Engineers
4.	**Prof. L. B. Pawar**	Promising Engineer Award	2016-17	Institution of Engineers
5.	Prof. M. R. Sanghavi	1. Significant contribution Award, 2. Promissing Engineering Award, 3. Best Teacher Award	2015-16 2012-13 2013-14	1. Computer Society of India, 2. Institution of Engineers, 3. International Jain Conference
6.	Prof. K. M. Sanghavi	Lady Engineer Award	2012-13	Institution of Engineers
7	Prof. B. A. Khivsara	Lady Engineer Award	2016-17	Institution of Engineers
8	Prof. S. D. Sancheti	Engineer Achievement Award	2016-17	Institution of Engineers
9	Prof. A. R. Bramhecha	Adarsh Shikshak	2016-17	Mahavir International, Nasik
10	Prof. P. N. Achaliya	Adarsh Shikshak	2016-17	Mahavir International, Nasik

2.4.5.1 What are the teaching innovations made during the last five years? How are innovations rewarded?

The various teaching-learning methods are as follows:
- ➢ Lecture method
- ➢ Interactive method – LCD Projector.
- ➢ Experimental learning (through practical's)
- ➢ Seminars/ workshops
- ➢ Assignments/ group discussions
- ➢ Project work/ field trip.
- ➢ In House Training for students by industry experts.
- ➢ Internship for students at industry.

Innovative pedagogical practices of individual members are shared with other members of the department. This spurs others into a healthy competition to develop novel classroom strategies.

2.4.6 Has the institution introduced evaluation of teachers by the students and external Peers?

If yes, how is the evaluation used for improving the quality of the teaching-learning process?

- ➢ Yes, the institution introduced evaluation of teachers by the students and external Peers. This is monitored by HoD for improving the teaching learning process.
- ➢ Students are provided individually online/offline access for giving feedback of faculty members / institute.
- ➢ HOD reviews the entire feedback every semester and gives necessary suggestion for improvement.
- ➢ The teaching load (Theory & Practical) is assigned to faculty members for the next semester at the end of current semester so that they get sufficient time for the preparation of the subject.
- ➢ The theory subject and its practical are probablyassigned to same faculty member so that there be correlation between theory and practical.
- ➢ The theory subject is assigned to the faculty members based on previous student's feedback, subject choice given by faculty.
- ➢ The senior faculty members whose student's feedback is good are assigned to first and second year engineering classes.
- ➢ Subject is not changed for at least three years if feedback is good.
- ➢ The self-appraisal forms are also filled by respective faculty in the month of June and are verified by the HoD with their remarks on various performance parameters.

2.4.6.1 Evaluation of Teachers by students:

The evaluation of teachers by students is carried out every semester by means of feedback form, each particulars rating is out of 10.

Feedback form format –

Sr. No.	Particulars	T-1	T-2	T-3	T-4	T-5	T-6	T-7	T-8
1	Language/Teaching Method Understand								
2	Basics/Fundamentals Cleared/Example given properly								
3	Syllabus Covered till the end of semester								
4	Impartial with students								
5	You wish same teacher to teach you again(Overall Tanking								
Total									

- The feedback form is made available for students to respond the set of questions.
- The students also provide suggestions through the suggestion box.

2.5 Evaluation Process and Reforms

2.5.1 How does the institution ensure that the stakeholders of the institution especially Students and faculty are aware of the evaluation processes?

Awareness of the evaluation processes:

➢ The regulations, curriculum and syllabus of all the programs offered by the Institute are available in the Central Library and respective departmental library also on the affiliated University websites.

➢ At the commencement of the term students are notified about the criteria for evaluation of SPPU, Credit system, Grades, Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA).

➢ Induction programmes are conducted for First Year students as well as parents and for second year students where they are made aware about university and institute evaluation procedure.

➢ Institute also declares criteria for distribution and evaluation of term work marks which includes attendance, timely submission, viva and performance.

➢ Academic calendar is drafted and notified to students in the beginning of semester containing s academic and extracurricular activities including dates of internal exams.

- The students are informed of the same through Class Committee Meetings and distributing the circular in the class rooms and displaying the same in the Notice Boards.

- The complete evaluation procedure in the form of regulations of various programmes are printed in the academic calendar and distributed to all the students.

- The End Semester Exam (ESE) results once declared are also displayed on notice board to students.

- Any Change/amendments made in the regulations are conveyed to the students by the Class Coordinator in the Class.

- The evaluation processes are also explained to the parents during the First year Orientation.

- Announcement of test dates to students are in academic calendar as well as any change in dates are also informed through departmental notice boards and email.

- Information is also send to parents through SMS, Letter.

- Maintaining records and access to the same by students and faculty as and when required.

- The question paper pattern, unit wise question bank and model answer paper is informed to the students by the concerned faculty members.

- From the Academic Year 2013-14, the assessment of answer sheets of In-semester exam for Third Year and from 2014-15 for Final Year has been handed over to the College. The College is responsible to get the papers assessed from appropriate teachers appointed by SPPU and upload the marks of corresponding subject. The College has appointed a separate Central Assessment Program (CAP) Committee for this purpose. It is the responsibility of this committee to communicate the results to the students through department.

- Information regarding verification and revaluation for University examination is displayed in noticeboard from time to time.

2.5.2 What are the major evaluation reforms of the university that the institution has adopted and what are the reforms initiated by the institution on its own?

University Reforms adopted by the institute-

The institute follows all the evaluation reforms prescribed by the SPPU. Following are the major evaluation reforms introduced by the University-

- **Appointment of single point of contact**- The Institute has appointed a senior and experienced faculty member as Chief Examination Officer (CEO) as per the

directives of university. The Examination Committee is a structured with the Principal as the Chairman assisted by CEO who is the member Secretary.

- ➢ **SPPU Examination Pattern** – The examination structure of SPPU is given in table 2.5.1. In SPPU, evaluation pattern contains online examination,In-semester examination and end semester examination per semester.

- ➢ **Computerization**- Online examination for evaluation of first and second year engineering students. The Institute conducts online examinations during every semester.

- ➢ **Appointment of Internal Examiners**- Institute appoints internal examiners for conduction of practical/oral examinations as per the guidelines of the SPPU.

- ➢ **Credit system**- As per the SPPU guidelines credit system has been introduced for the UG and PG Programmes.

- ➢ **Photocopy of answer sheets** can be obtained by the individual student in case he/she is not satisfied with the assessment.

Table 2.5.1: SPPU Evaluation Pattern

Year	Exam by SPPU		Marks	Exam by SPPU	Marks
FE	Phase I [25M]	Phase II [25M]	50	End semester	50
SE	In- semester		50	End semester	50
TE	In – semester		30	End semester	70
BE	In – semester		30	End semester	70
ME	In – semester		50	End semester	50
MBA	On-line [20M]	Internal [30M]	50	End semester	50

Reforms initiated by the Institute-

- ➢ Institute also organizes supporting competition for students to develop their intellect.

- ➢ Faculty members are advised to set the Continuous Internal Assesment (CIA) Test like Unit test and prelim.

- Supplementary coaching classes are conducted immediately after the announcement of results for weak and needy students.

- CEO has been appointed on behalf of university to conduct all examinations smoothly.

- Institute conducts mock online examinations, tutorials, mid-semester examination and mock practical/oral examinations. Institute also conducts project competitions, quizzes and soft skill development competitions for the students

- Internal evaluation process is manual as well as automated through ERP software. The faculty enters attendance and marks of the students periodically.

- As per the University directions, institute contacts the externals appointed for the practical & oral exams and conducts smoothly.

- Institute deputes the faculty to set question paper as per BCUD directions.

- The Institute sends its faculty members as examiners to evaluate semester answer sheets to the affiliating University.

2.5.3 How does the institution ensure effective implementation of the evaluation reforms of the University and those initiated by the institution on its own?

- University Evaluation: The reforms recommended by the SPPU and initiated by the institution are effectively implemented.

- The CEO and his committee conduct the online, In-Semester and End semester, Lab and Theory exams.

- The institute has sufficient IT infrastructure. CCTV cameras are used for monitoring the online examinations.

- For smooth conduction of University theory examination, an internal squad comprising of senior faculty members is appointed.

- Institute has coordinator in each department for smooth conduction of online exam.

- The duty of Chief Exam Officer has been assigned for smooth conduction of University exam.

- Internal Tests are conducted and records are shown to the student and their parents. If any doubt arises, then test copy evaluations is made clear to the students and encourage or counsel them for better future performance. Retest is also organized for absent and poor performer students.

- Practice sessions are conducted for FE and SE online exam at university level.

- Along with Regular assignments,Self learning assignments are also given and answers are discussed in the class.

- CEO, HoD and examination coordinator of departments make sure the completion of term work, conduction of mock practical and theory examinations, Submission of term work marks based on continuous evaluation scheme, Assessment of in semester examination answer sheets, conduction of online and theory examinations.

- Student can verify their performance and faculty also make use of this analysis for student's evaluation.

2.5.4 Provide details on the formative and summative assessment approaches adapted to measure student achievement. Cite a few examples which have positively impacted the system.

Formative Evaluation Process:

Formative assessment is essential to monitor individual student learning and modify the teaching methodology by the teacher accordingly. Assessment is done on the basis of:

- Assignments (From syllabus content, self-learning)

- Presentations (on selective topics from subject contents)

- Industrial Visits

- Co-curricular activities viz. workshops / seminars /mini and major projects/ Group Discussions, technical quiz/debate etc.

- Workshops/Seminars

- Unit test and Prelim.

- Department Functions/events

- Social activities

- Participation in International/National/state level/Inter departmental competitions

- Attendance to theory and practical sessions throughout the semester

- Class room interaction

➤ Mock on-line and practical/oral examinations

Summative evaluation Process:

Summative assessment is conducted by university at the end of each semester in the form of:

➤ University written examination

➤ Online and In-semester examination conducted by University

➤ Oral / practical examination

➤ Project Oral / practical examination

Many of our students achieved excellent performance in University examinations and obtained University ranks.

Sr.No.	Exam	Name of the Student	Branch	University Rank

2.5.5 Detail on the significant improvements made in ensuring rigor and transparency in the internal assessment during the last four years and weightages assigned for the overall development of students (weightage for behavioral aspects, independent learning, communication skills etc.)

Efforts are taken by the institute authority to have transparency in the internal assessment through;

Transparency

➤ Academic calendar is displayed on notice board consisting details of test slot and institute/department events, at the start of semester.

➤ A unit wise question bank and model answer is provided to the students.

➤ Students are given ample opportunity to discuss issues regarding test performance with the concerned teacher.

➤ For failure in the internal test, retest or assignments are asked from the student.

➤ Evaluation criteria for the term work marks are based on continuous assessment, timely submission and attendance are discussed with students in induction programmes.

- Institute has designed assessment sheet which includes attendance, conduction of practical, performance in internal oral, timely completion.

- Institute also considers the student behavior, social work done by the student and his/her participation in extracurricular activities inside or outside the institute.

- The appointed Class Coordinator, Mentor and respective subject teacher monitors the academic progress of the Students.

- Monthly attendance of the student is communicated to the parents through SMS and letters along with test marks.

- Every year Management, Teachers and Parent Meet is organized through which progress of the students and institute achievements are communicated to the parents.

- For special cases, parents of irregular students are called in between as well.

- The respective department maintains record for every student which contains details of the student such as their attendance record, test marks for theory, and their applications/documents for participation/leave.

- For special achievements, students get felicitation and certificates are provided to the students.

Behavioral aspects

- The importance is given for the overall behaviors of students which is also responsible for term work marks of students.

- The efforts are taken on different level viz. Mentor, Subject Teacher, Class teacher, HoD and Principal for improving the behavior of students which is responsible for their overall development.

- The overall development of students gets reflected not only in academic performance and mark sheets, but also reflects in developed personality and confidence amongst the students due to acquired knowledge and skills.

Independent Learning

- Institute encourages Independent and group learning by giving self-learning assignments based on reference book, International journal and websites.

- Independent learning of the student is tested during execution of mini – projects, final year projects and completing their independent tasks of assignments, for which SPPU has given suitable weightage in the marking scheme of curriculum.

Communication skills

- SPPU has also marked suitable weightage of marks for communication skills in the curriculum implementation by the student in the semester. Students are evaluated during seminar and presentation of their projects as well as practical/oral exams, while explain concepts of respective subjects.

2.5.6 What are the graduates attributes specified by the college/affiliating university? How does the college ensure the attainment of these by the students?

The university has specified following graduates attributes.

To academia

- **Engineering Knowledge**: to apply fundamental concepts of mathematics, science, engineering to solve engineering application problems.

- **Problem Analysis**: to analyze a problem, to conduct experiment, interpret and analyze the results with logical reasoning.

- **Design / Development of Solutions**: to design and conduct experiments, develop model and analyze physical system, components or process to meet desired needs.

- **Conduct Investigations of Complex Problems**: to conduct independent research for solving complex engineering problems.

- **Modern Tool Usage**: to use modern engineering techniques, skills and computing tools necessary for engineering practice.

To society / community

- **The Engineer and Society**: to predict the impact of engineering solutions in a the context of global and societal.

- **Environment & Sustainability**: to incorporate economic, environmental and safety considerations in design process.

- **Ethics**: to execute professional and ethical responsibility

To work and career

- **Individual and Team Work**: to work on practical assignments, seminars,case studies and projects to enhance interpersonal and leadership skills.

- **Communication**: to communicate effectively through engineering drawing, written reports and oral presentations

- **Project Management and Finance**: to understand engineering and management principles and apply in own work, as a member and leader in a team to manage project.

- **Life-long Learning**: to recognize the need and an ability to engage in life-long learning after graduations their employability in private and government sector.

Measures taken at institute level to attain graduate attributes

- For academic excellence college ensures continuous monitoring of students progress by his/her Mentor appointed by department as well as by class coordinator and HoD. The slow learner and advance learner are identified and corrective / supportive steps are taken accordingly.

- Students are encouraged to share benefit to their technical expertise to society through various activities conducted by departmental and institute level (e.g. SPACE,MESA,CESA…etc.)

- Students are also encourages to become a member of professional bodeies like CSI,IEI etc.

- Different entrepreneurial skill development programmes are organized by EDC at institute level.

- The mock are also conducted in every department to build confidence amongst the students and enhance their communication skills before they appear for placement drives arranged by T&P. The institute also organizes professional training and internship programmes for placement activities and personality development**.**

2.5.7 **What are the mechanisms for redressal of grievances with reference to evaluation both at the college and University level?**

- **Level 1 - Departmental Level**: The continuous evaluation of students is carried out by faculty in terms of theory lectures, labs, assignments etc. The term work is allotted based on defined strategies and displayed on notice board. Query if any is discussed with faculty and HoD.

- **Level 2 – College Level**: The institute appoints a Senior Supervisor who controls all the online/ theory examinations, displays schedules, instructs to the students for smooth conduction of examinations of University. If students are facing any problems, they are solved by Senior Supervisor in coordination with CEO appointed by the University. The

grievances during the conduction of online/theory examinations are considered and discussed in consultation with the Principal and if necessary forwarded to the SPPU by examination section. Figure 2.5.1 shows Grievances Handling with reference to Evaluation.

➢ **Level 3 – University Level**: Examination online form filling, exam seats allotments, results, photocopy, revaluations etc. are coordinated by office superintendent to University. The result queries, printing mistakes of mark sheets, corrections if any are handled at University examination section after forwarding such quires through the college examination section. Any queries of students during online examinations are communicated to the SPPU immediately and get clarified to satisfy the student who is appearing for online examinations. The same policy is also adopted for SPPU theory examination. The queries related with errors in mark sheets, evaluation, photocopy are totally handled by SPPU in which the role of institute is to take the follow – up with SPPU till the student satisfies.

Level –I : Departmental Level
Grievances related with continuous evaluation of students carried out by faculty and department and term work marks given to the students transparently

Level –II : College Level
Grievances during the conduction of Online/Theory examinations are solved by Senior Supervisor in coordination with CEO and principal

Level –III : University Level
Grievances related with unfair means, results, mistakes in mark sheets etc. are handled by university examination section after forwarding such quires through the college examination section
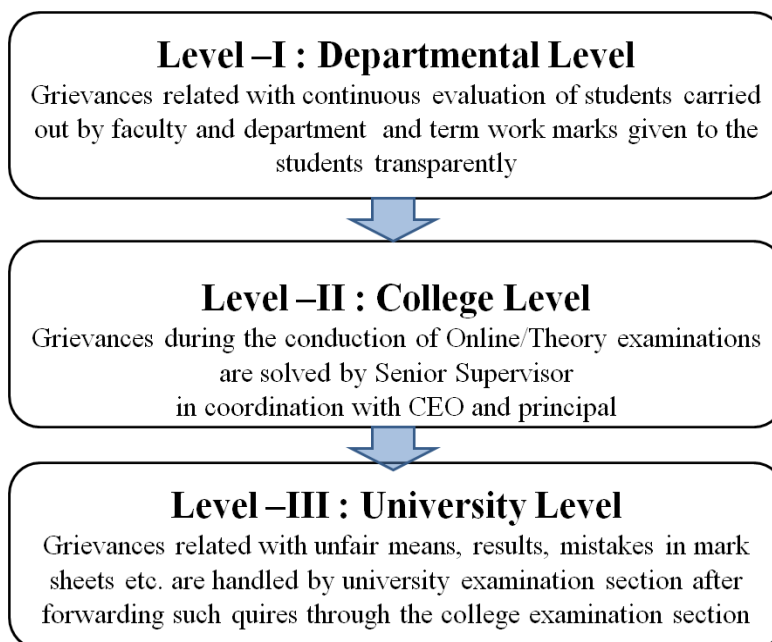
Figure 2.5.1: Grievances Handling with Reference to Evaluation

2.6 Student performance and Learning Outcomes

2.6.1 Does the college have clearly stated learning outcomes? If yes give details on how the students and staff are made aware of these?

- Yes, every department prepares its own Program Educational Objectives and Outcomes.(Need to verify for all the departments)
- For every course/subject separate course objective and outcomes are specified by SPPU, Pune.
- These are discussed with staff in departmental meetings. These are also reflected in course files.
- It is communicated to the students through notice boards and emails.
- As an example the Program Educational Objectives and Outcomes Department of Computer Engineering are stated below.
- Program Educational Objectives (PEO)

The Objective of the UG Programme is to: To develop a high level of technical expertise so that students are able to succeed positions in Computer science and engineering practice or research and in other fields they choose to pursue. To develop competency so that students will produce efficient software / hardware design based on sound principles and that consider functionality, efficiency, cost effectiveness and sustainability. To encourage lifelong learning habits among students so that they will easily face day by day challenges. To develop leadership qualities both in their chosen profession and other activities

- Program Outcome (PO)
- To develop mathematical foundation for computer science.
- Ability to design efficient algorithms.
- Ability to develop well designed software.
- Ability to handle large databases.
- Ability to design programming languages and their compilers.
- Ability to modify routines of operating system.
- Ability to design computer networks and analyze their performance parameters.
- Deal with the security issues.
- Ability to understand computer logics and hardware.
- Ability to model and simulate real life complex problems.
- Ability to learn multi-disciplinary systems.
- Understanding professional and ethical responsibilities.
- Ability to extract knowledge from large data.
- Ability to apply human intelligence on computer.
- Ability to work in group.

2.6.2 Enumerate on how the institution monitors and communicates the progress and performance of students through the duration of the course/programme? Provide an analysis of the student's results/achievements and explain the differences if any and patterns of achievement across the programmes/courses offered.

Progress and performance of students is communicated to students and Parents through:

- The student progress is monitored using continuous evaluation system which consists of monthly tests, preliminary examination, mock, practical and oral exam. Using this, institute find out progress of the students. The mechanism is used to send feedback to parents of students about internal marks and attendance regularly.
- To have communication with students and parents, Parent / Guardian meet is organized regularly.
- SPPU conducts the written/theory/practical examination at the end of semester. The academic result analysis of each program is carried out which also helps for academic monitoring.
- The result analysis for last four years is given below. Every year institute has produced results which are better than overall university results.

Class	Academic Year	% of Passing
BE	2011-2012	93%
	2012-2013	95.31%
	2013-2014	85.71%
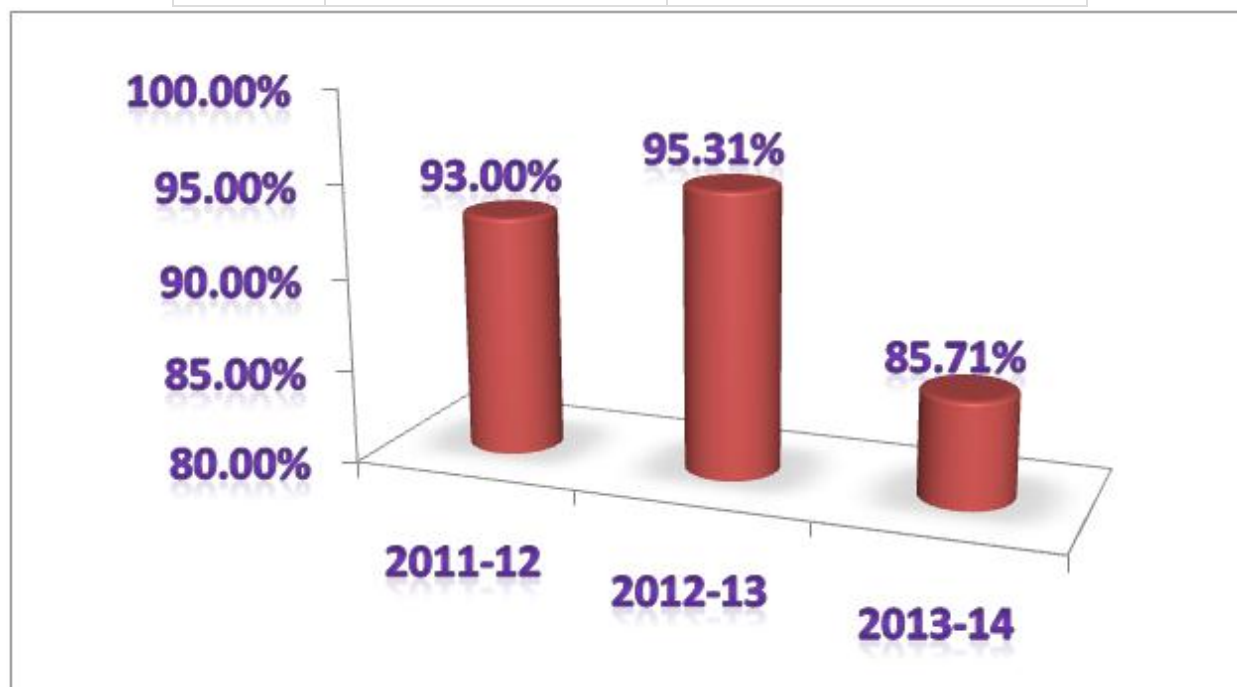
- Website: Result Analysis example: http://www.snjb.org/engineering/pages/computer-engineering-results
- Placement Statistics: http://www.snjb.org/engineering/pages/computer-engineering-placements-statistics
- Continuous assessment of practical (TW Performa)

➢ Last four year result analysis of all departments

2.6.3 How are the teaching, learning and assessment strategies of the institution structured to facilitate the achievement of the intended learning outcomes?

➢ Qualified, experienced, subject specialized staff is recruited for ensuring quality.
➢ Faculty development programs arranged for training the new staff.
➢ Before the commencement of semester academic calendar is prepared.
➢ Academic calendar is prepared by college and individual departments.
➢ Academic calendar includes academic, curricular, co-curricular activities and extracurricular activities.
➢ Every faculty prepares teaching plans based upon SPPU curriculum.
➢ Faculty prepares the course files and other study materials, unit wise notes to support the learning outcomes.
➢ Practical plans are also prepared along with the development of laboratory manual.
➢ Additional practical considering the subject requirement are conducted.
➢ Weekly follow up of theory and practical syllabus coverage is carried out and for shortage extra lectures are conducted.
➢ Monthly class tests are conducted to check the student progress.
➢ Competitive exam cell provides guidance for GATE, GRE, and Civil Services Exams.
➢ Students are encouraged for rural based and social need based projects. Institute motivates students to participate in national level project competitions organized by other institutes and universities such as Avishkar, Dipex, Baza and Shrujan.
➢ Students are encouraged to attend seminar/workshop/symposiums to share and express their innovative ideas. Registration/publication fees, TA/DA is provided to the students.
➢ To meet the outcomes, guest or expert lectures are organized for critical subject and current trends in technology.
➢ Staff Blog : Notes and course file Contents are maintained on blog of all staff members
➢ Google Groups: Google group is created by class coordinator and all the important notes or notices are circulated through it.

2.6.4 What are the measures/initiatives taken up by the institution to enhance the social and economic relevance (student placements, entrepreneurship, innovation and research aptitude developed among students etc.) of the courses offered?

➢ Registered GATE tutor
➢ International Conference
➢ NSS Camps are organized for students
➢ T& P Cell activities
➢ Soft skill training like FACE is organized for TE and final year students
➢ EDC Cell
➢ Avishkar Project competition

2.6.5 How does the institution collect and analyze data on student performance and learning outcomes and use it for planning and overcoming barriers of learning?

- ➢ PG Scheme
- ➢ Oral in Practical session

Barriers of learning outcomes are:

- ➢ Communication Skills
- ➢ Communication of Students/Parents with staff
- ➢ Health concern

Steps taken to overcome barriers are:

- ➢ FACE training and other sessions to improve Communication skills
- ➢ Monthly reporting of attendance to parents via Letter.
- ➢ Extra Lecture or Guest lecture for Students.
- ➢ Parents Meet is organized.
- ➢ Social activities like Blood Donation Camp or health checkup Camp are organized.

2.6.6 How does the institution monitor and ensure the achievement of learning outcomes?

- ➢ The Internal Quality Assurance Cell in the Institute monitors the achievement of learning outcomes.
- ➢ The achievements of learning outcomes are ensured by Institute through the feedback from its stakeholders and the industry. Student Placement through in campus & off campus interviews and number of students pursing higher studies indicates the achievement of learning outcome.
- ➢ Teaching learning process is continuously monitored and immediate remedial measures are taken to overcome problems.
- ➢ Regular review of teaching learning process is taken.
- ➢ Online feedback from stake holders is obtained.
- ➢ Faculty development programs are arranged for training and guidance.

2.6.7 Does the institution and individual teacher use assessment/ evaluation outcomes as an indicator for evaluating student performance, achievement of learning objectives and planning? If „yes‟ provide details on the process and cite a few examples.

- ➢ Yes, Individual teacher uses University result as indicator for student performance.
- ➢ The overall performance, regularity and sincerity of the students matters as an indicator for evaluating student performance, achievement of learning objectives and planning.

CRITERION III: Research, Consultancy and Extension

3.1   Promotion of Research

3.1.1   Does the institution have recognized research center/s of the affiliating University or any other agency/organization?

The institute does not have recognized research center/s at present. However, the institute plans to apply for research center soon under SPPU, Pune.

3.1.2   Does the Institution have are search committee to monitor and address the issues of research? If so, what is its composition? Mention a few recommendations made by the committee for implementation and their impact.

Yes, the institute has a research committee constituting experienced faculty members. The committee members guide the faculty members in completion of the research projects. A meeting of research committee is conducted every six months to address the issues of research and monitor the progress. The committee regularly assesses the research potential of faculty members and tries to facilitate their research and academic extension activities.

The research committee facilitates with the objective of

1. Promoting research culture and innovations in students and faculties.
2. Creating awareness regarding the research grants from various funding agencies.
3. Promoting research publications from students and faculties in various national and international journals.
4. Organizing visits to various research centers.
5. Organizing state/national/international level workshops, seminars and conferences and motivate students and faculties to participate in such events.
6. Encouraging patents from faculties and students.
7. Having liaison with professional societies such as CSI, IEI etc.
8. Promoting students to participate in various project completions.
9. Encouraging consultancies.
10. Encouraging faculty members for higher studies.

The composition of research committee is as follows:

1. Principal: Chairperson

2. Dean Research & Development: Secretary

3. Heads of Concerned Departments: Member

4. One UG Faculty: Member

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5. One PG Faculty: Member

6. Industry Persons and Scientists: Member

Some recommendations of the research committee are as follows:

1. To motivate the staff and students to publish quality papers in national and international journals.
2. To organize in-house international conferences with a view to provide platform to students and staff for quality publications. For that purpose, to liaison with renowned publishers like TMH and ElseVier.
3. To organize sensitization programmes to emphasize the importance of research in academics.
4. To allocate seed money for purchase of research tools.
5. To motivate faculty members for higher studies.
6. To provide on-duty leave for Ph.D work.

Impact of the Recommendations of Research Committee:

1. The institute has been organizing an International conference since 2011 to promote research culture in staff and students.
2. The Conferences held in these years had a tie up with the renowned publishers like ElseVier and Tata McGraw Hill publication.
3. There has been potential increase in the number of publications by the faculty members in National/International Journals and Conferences.
4. Subscription is made available of Online e-journal for all disciplines
5. The institute has journal with ISBN Number
6. The institute has Competitive Exam Cell to help students to clear competitive examinations such as GATE.
7. With the encouragement and motivation of research committee, college received grants for four minor research project funded by BCUD, Savitribai Phule Pune University.
8. The research committee took an initiative in conduction of sensitization programmes on research.
9. The efforts of research committee led to the allocation of seed money and purchase of research tools such as MATLAB and ardruino kits.
10. Number of faculty members has registered for higher studies (Ph.D.).
11. The faculty members of the institutes are registered as Ph.D. guides in various universities.
12. Provision of on-duty leave for Ph.D work.
13. The equipment purchased under funded projects are as follows:

Table 3.1: Equipment Purpose under QIP

Sr.no.	Department	Name of the Equipment
1.	Computer Engg.	Cisco Firewall
2.	E&TC Engg.	Explore ARM Kit with Board Interface
3.		CAN Protocol using LPC1768
4.	Mechanical Engg.	Scheffler Solar concentration Cooker
5.		Maxtech Thermometer Model
6.		KM SPM 530 Digital Solar Power Meter
7.		Solar Cabinet Dryer System without Glassware
8		KM SPM 530 Digital Solar Power Meter
9	Information Technology	Datalogger
		MATLAB ToolKit

3.1.3 What are the measures taken by the institution to facilitate smooth progress and Implementation of research schemes/projects?

Autonomy to the Principal Investigator (PI) – YES

The selection of area of research solely depends on the PI. PI has complete autonomy and authority to decide about the utilization of the allotted research fund. However the utilization is monitored by the <u>financial administrator</u>. In support of the research carried out by the PI, he/she can organize expert lectures from academicians and researchers. The institute co-operates the PI by providing seed money, e-journals, e-books, lab facilities.

Timely availability or release of resources – YES

The funds for the projects sanctioned have been expedited in time. Timely release of grants have been greatly helpful in carrying out the funded projects, received from funding agencies. On certain occasions, the college has advanced the necessary funds before the release of grants from external agencies.

Adequate infrastructure and human resources – YES

The college has adequate infrastructure facilities and human resource for research. In case of any unavailability of any equipment, the college makes special provisions to carry out the research in other colleges or research centres where the facility/equipment is available.

Time-off, reduced teaching load, special leave etc. to teachers – YES

The college provides special leave and reduced teaching load to the faculty who are involved in research project.

Support in terms of technology and information needs – YES

The college provides support for the completion of the project work in term of technology and information as needed.

Facilitate timely auditing and submission of utilization – YES

The statement of expenses for projects is audited every financial year and also on the completion of the project. The financial administrator reviews them and the utilization certificate is submitted to the funding agencies.

Any other: Faculty members are allowed to apply for Ph. D. programmes in their respective fields of specialization.

3.1.4 What are the efforts made by the institution in developing scientific temper and research culture and aptitude among students?

The college believes that students should not become mere carriers of information and gatherers of knowledge. They should become innovators by applying their knowledge in the real world problem. Thus, various efforts have been made in order to develop scientific temper. Some of them are as follows:

1. The institute has been organizing an International conference since 2011 to promote research culture in staff and students.
2. Students are also motivated to participate in College level,state level, University level competition like Project competition *"Avishkar" and PGCON(conference for PG Student).With the help of proper guidance and motivation, a project entitled "*Smart Onion Warehouse" has received first prize in university level "AVISHKAR" competition as well as in many other project competitions. Project groups are selected to compete in "Smart India Hackathon". Many project groups received awards.
3. The institute encourages students to participate in the conferences, project exhibition, and Paper presentation in various places.

4. Institute has organized visit to research institutes and industries to promote applicability in students and faculties.

5. Institute believes that the digital library also a one of the useful media for research. Hence, the digital library has been made available which has online research journals along with e-books.

6. Institute has student chapter of CSI, under which various technical programs such as expert talk of eminent personalities, seminars, work-shops are organized to develop technical know-how of students and faculties.

7. The institute organizes department wise technical events of college/zonal/state level. The technical event comprises of technical quiz competitions, programming, gaming, paper presentations, project exhibition, aptitude test etc.

8. The institute also has a chapter IEI, CSI.

9. The institute allows participation of students in the funded research projects of the faculties.

3.1.5 Give details of the faculty involvement in active research (Guiding student research, leading Research Projects, engaged in individual/collaborative research activity, etc.

Guiding student research, leading research Projects

1. The institute allows participation of students in the funded research projects of the faculties.

2. The faculty members guide and lead the project of BE students towards completion.
3. The faculty members guide UG and PG students for seminars, project and technical paper presentation.
4. The faculty members and students are involved in paper presentation in national and international conferences.
5. The institute has recognized Ph.D. guides.
6. Faculty and students are associated with industry sponsored projects.

Engaged in individual /collaborative research activity etc.

1. Institute has Research and Development Laboratory and staff can use this lab for research activity.
2. Faculties have regularly presented the research papers in journals and conferences and have also attended conferences.
3. Many of the staff members are invited as a key note speaker in research conferences at various places.
4. Faculties have contributed in development of low cost housing project as a social service to the community..
5. A number of faculties have registered for Ph.D. programme.
6. Faculties have also guided for collaborative research activity.

3.1.6 Give details of workshops/ training programmes/ sensitization programmes conducted/organized by the institution with focus on capacity building in terms of research and imbibing research culture among the staff and students.

Yes, Institute organizes conference, workshop, seminar to build research culture among the staff and students. The summary as follows

Table 3.2: Workshops/ Training programmes conducted/organized by the Institute/Departments for the staff and students

Sr.No.	Tilte	Dept	Resources Institute/Person
1	2 Days Hands On Traning Session on Python	Computer	Gadakh Navnath, Cybage Pune
2	Rasberry pi	E&TC	Mr. Shekhar Borse
3	Digital Signal processing using XILINX FPGA	E&TC	Mr. Mayur Deshmukh, COREL Technologies. (SPPU Sponsered)
4	Network Simulation and Server Administration	IT	InfoSystem Pvt.Ltd.Pune
5	Crazy Bikers	Mechanical	Haribhau Shinde
6	One Day Hands On Session on Salesforce	Computer	Mr. Mitersh Gidiya, Cloud Action

Table3.3: National/International Conference conducted/organized by the Institute/Departments for the staff and students

Sr No.	AY	Name of Conference conducted/organized	Program Director	Date of Conduction (to and from)	Number of Participants
1	2011-12	ICRTET 2012	Prof. P.R.Bhaadhare	24-25 March 2012	127
2	2012-13	ICRTET 2013	Prof. M.R.Sanghavi	22-24 February, 2013	391

3	2013-14	ICRTET 2014	Dr. V.A.Wankhede	28-30 March 2014	
4	2014-15	ICRTET 2015	Prof. R.M.Sonar	2-4 July 2015	350
5	2015-16	ICRTET 2016	Prof. Y.L.Bhirud	28-30 April, 2016	218

3.1.7 Provide details of prioritized research areas and the expertise available with the institution.

Table 3.4: Prioritized Research areas

Sr. No	Department	Research areas	Name of Faculty (who is expertise in research area)
1	E & TC	Optimize resource allocation for physical layer of mobile WIMAX network applied in scheduling of scalable video multicast. (PhD)	Dr. Wankhede V. A.
2		Advanced Techniques for classification of remotely sensed Images(PhD)	Mr. Agrawal R. K.
3		Improvement in the efficiency of solar panel by Solar Tracking and Fresnel Lens Concentrator	Mr. Mechkul M. A.
4		Harmonic Reduction system using active Filters	Ms. Hon Y. S.
5		FPGA based implementation of correlation Radar for use in CAS	Mr. .Thakare.S.S
6		Embedded based Rice Grain & stone sorting system	Ms..Tated.K.S
7		Isolated Digit speech recognition for English language using HTK	Mr..Pawar.G.S
8	Computer Engg.	Image and video Processing	Dr. M.R. Sanghavi
9		Image and video Processing	Mrs. K.M. Sanghavi
10		Privacy Preserving in Data Mining	Mrs. B.A. Kivsara
11		Cyber Security	Mr. D.R. Agarwal
12		Wireless Sensor Network	Mr. R. R. Bhandari

13		Image Processing	Mr. P.S. Desai
14		Web mining	Mrs. S.A. Chavan
15	IT	Image Processing	Mrs. M.D. Kawade
16		Image Processing	Mr. P.N. Achaliya
17		Big Data Analysis	Mrs. K.R. Nirmal
18		Image Processing	Mrs. S.V. Sinha
19		Thermal Engineering	Prof. M. M. Rathore
20		Solar Energy	Prof. R. C. Patil
21	Mechanical	CFD and Heat Exchanger	Prof. Dr. S.D. Sancheti
22		Heat Transfer	Prof. H.R. Thakare
23		Design Engineering	Prof. M. A. Ahire
24		Self-compacting concrete, Fibre reinforced concrete.	Prof. Y L Bhirud
25		Optimal Irrigation planning by FUZZY logic, Water Conservation and Managemen.	Prof. S. M. Pawar
26	Civil	Water resources management	Prof. S.N. Kalia
27		Enhancement of Flexural strength of concrete using Kevlar fabric.	Prof. P M Yeole
28		Post tensioned concrete, use of fibers in concrete	Prof. L. B. Pawar
29		HR Practices in Hospitality Industry	H.K.Padmanabhan
30	MBA	Customer Perception & Selling Methods in Life Insurance in Rural Area	U.S.Kasar
31		A comparative study of customer perception towards public and private hospitals in Nashik city with reference to accessibility, affordability and adequacy	P.A.Kapse

3.1.8 Enumerate the efforts of the institution in attracting researchers of eminence to visit the campus and interact with teachers and students?

Institute organizes international conference every year to attract researchers from various areas. The institute has a tie-up with renowned publishers like Tata McGraw Hill publication, ElseVier and others. With an aim to boost academic standards of both faculty and students, the departments and their colleagues regularly conduct expert talks/seminars/workshop/state level seminar by prominent resource persons from different research institutions/industry in India.

3.1.9 What percentage of the faculty has utilized Sabbatical Leave for research activities? How has the provision contributed to improve the quality of research and imbibe research culture on the campus?

No, but institute gives special leave facility and faculty members have availed special leave for their research work. Faculty can utilize special leaves for the following purpose:

➢ To attend the hand-on training in reputed organization.
➢ MoU with the industries
➢ To attended the conferences / seminar in other institutions.
➢ For Faculty Development programmes.
➢ For completion of PhD programme.
➢ To deliver the guest lecture in other institutes.

3.1.10 Provide details of the initiatives taken up by the institution in creating awareness/advocating/transfer of relative findings of research of the institution and elsewhere to students and community (lab to land)

The significant measures undertaken so far are as listed below:

➢ The institute organizes International conference every year and tie-up with journals having a good impact factor every year.
➢ Institute has its own online journal for every stream.
➢ The institute organizes project exhibition, poster competitions (Pre-Aviskar) to motivate student innovations.
➢ PG Student research group is established to deliver lectures to the UG student according to their respective discipline.

3.2 Resource Mobilization for Research

3.2.1 What percentage of the total budget is earmarked for research? Give details of major heads of expenditure, financial allocation and actual utilization.

Total budget allocation for research is increased substantially during last four years and 3% of the total budget is earmarked for research.

3.2.2 Is there a provision in the institution to provide seed money to the faculty for research? If so, specify the amount disbursed and the percentage of the faculty that has availed the facility in the last four years?

➢ Instead of providing seed money institute provide travel expenses of faculty attending National/ International conferences, seminar, workshop.
➢ Special amount five thousand is granted for international conferences outside of India and rupees one thousand for best paper award at international conference.
➢ Non sponsoring workshop/STTP/Training programs registration amount is paid by the college for particular staff.

3.2.3 What are the financial provisions made available to support student research projects by students?

The financial provisions have been made available by department student association that provide seed money as well as laboratory facilities to start the project development.

Also, the institution provides funds for students to participate in various project competitions.

3.2.4 How does the various departments/units/staff of the institute interact in undertaking inter-disciplinary research? Cite examples of successful endeavors and challenges faced in organizing interdisciplinary research.

The Institute has a Research and development Cell that consists of subject experts from all the departments. Faculty members of all the departments interact with the Research and Development Cell in undertaking inter-disciplinary Research work.

Challenges faced in organizing interdisciplinary research are as follows.

➢ Problem identification.
➢ Guide allocation.
➢ Co-ordination amongst faculties guiding interdisciplinary projects.
➢ Co-ordination of the facilities required for interdisciplinary work like laboratories, instruments etc.

3.2.5 How does the institution ensure optimal use of various equipments and research facilities of the institution by its staff and students?

According to the norms and procedures mentioned by IQAC Cell following documentation is carried out to ensure optimal usage:

➢ Equipment history register
➢ Lab utilization register
➢ Equipment utilization-loan slip
➢ Printing register
➢ Sharing of major equipment among various department
➢ Providing testing and consultancy in the form of design of structural elements
➢ Sharing of technical expertise, etc.

3.2.6 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facility? If yes, give details.

No, the institution has not received any special grants or finances from the industry or other beneficiary agency for developing research facility. However, the faculty members have received financial grants from research funding agencies like BCUD, SPPU.

3.2.7 Enumerate the support provided to the faculty in securing research funds from various funding agencies, industry and other organizations. Provide details of ongoing and completed projects and grants received during the last four years.

• Institute has formulated a research committee to monitor the fund that is granted to Principal investigator.
• The faculty is encouraged with proper guidelines given by research committee from time to time for preparing various research proposals for BCUD, ISRO.
• Freedom is given to the principal investigator for utilization of funds.
• The research fund can be utilized as and when required.

Table 3.5 Funded Minor Research Title

Sr. No.	Name of the funding Agency	Year	Name of the principal Investigator	Research Title	Status
1	BCUD	2013-15	Mr..P. S. Desai	IPCA_ICA Algorithm for Face Recognition	Completed
2	BCUD	2013-15	Mr. M. M. Rathore	Test Protocol for Performance Evolution of Stream Generation Solar Drying Cooker	Completed
3	BCUD	2014-16	Mr. R.C. Patil	Comparative Analysis Solar	Completed

				Drying System	
4	BCUD	2014-16	Ms. K.V. Tated	Embedded Based rice grain and stone sorting system	Completed

3.3   Research Facilities

3.3.1   What are the research facilities available to the students and research scholars within the campus?

a. Central library and digital library as well as a separate library department wise.
b. Wi-Fi Campus support 24/7
c. Central Computing center and labs are open beyond working hours
d. E-books in central library.
e. An FTP server that servers as data hub for softwares, ebooks, and other e-resources.
f. Research Lab for E&TC and Computer department with IOT kit, big data analytics software, and other software like MATLAB etc.
g. National and International Journals subscription.
h. Institute owns a journal.
i. Online resources such as JGate and Science direct subscription for staff and students.
j. E-learning facility.
k. Competitive Exam Cell.
l. Well-equipped laboratories in all departments.
m. Guidance from qualified and experienced staff members.

3.3.2   What are the institutional strategies for planning, upgrading and creating infrastructural facilities to meet the needs of researchers especially in the new and emerging areas of research

The institutional strategies for planning, upgrading and creating infrastructural facilities to meet the needs of researchers are as follows:

➢ The research committee does a thorough review of the curriculum of the students to plan for the state-of-the-art equipment/soft wares for students.
➢ This also leads to well-equipped laboratory set-up. Also, the technical changes are made every year to meet the demand.
➢ The institute organizes and allocates experienced and qualified faculty for research programs.
➢ The funds received by the funding agencies are utilized in purchasing of research equipment which ultimately results in up gradation of Lab.
➢ The research committee also suggests technical events such as workshops, seminars, expert lectures for students and staff.

3.3.3 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facilities?? If "yes", what are the instruments/Facilities created during the last four years

No, the institution has not received any special grants or finances from the industry or other beneficiary agency for developing research facility. However, the faculty members have received financial grants from research funding agencies like BCUD, Savitribai Phule Pune University.

3.3.4 What are the research facilities made available to the students and research scholars outside the campus / other research laboratories?

➢ The institute promotes students to visit research labs.
➢ The Institute sponsors student for research competition like PGCON, Avishkar and other zonal/state and national level project competitions.
➢ Students are involved in industry sponsored project.
➢ Students are also involved in funded research that is carried out by the faculty.

3.3.5 Provide details on the library/information resource center or other facilities available specifically for the researchers?

➢ The library and Information Centre of the college creates a stimulating atmosphere for research by making journals, books and e-resources available for the researchers.
➢ The Institute has Central computing facility which available after working hours as well.
➢ The institute has central as well as department libraries.
➢ The institute also owns a digital library.
➢ The central library has a wide range of books and National and International Journals.
➢ Institute has a membership of IIT, Mumbai (Pawai) library

3.3.6 What are the collaborative researches facilities developed / created by the research institutes in the college? For ex. Laboratories, library, instruments, computers, new technology etc.

Yes, Under the sponsorship of MHRD, Government of India, IIT Mumbai supports the research and training for faculty in Robotics filed , in its multidisciplinary project can be handed

➢ Institute has a MoU's with reputed organizations.
➢ Major Organizations involved in MOU
    1. ARK Technosolution Mumbai
    2. Sonic Multitech Pvt.Ltd.Nasik
    3. Electronics Study Center,Nasik
    4. Next Zone Technology,Nasik
    5. TAACT Automation,Nasik
    6. TELEMAN Institute of Wireless Technology, Thane
    7. Arete Technologies, Nashik
    8. WebWing Technologies, Nashik

9. TechnoCrats Forum, Nashik

10. TAACT, Nashik

11. Zest Engineering Services and Technologies, Pune

12 . Maharashtra Centre for Entrepreneur Development, Nashik

3.4   Research Publications and Awards

3.4.1   Highlight the major research achievements of the staff and student in term of
*Patents obtained and filed (Process and Product)

Table 3.6: Patent Record

Sr. No.	Department	Name of staff	Title of the Patent	Status/Remark
1	Computer	Dr. M. R. Sanghavi , Mr. R.R. Bhandari	Internet of Things Based Garbage Bin	Filed

* Original research contribution to product improvement -Nil

* Research studies or survey benefiting the community or improving the services -Nil

* Research inputs contributing to new initiatives and social development.-Nil

3.4.2   Does the Institute publish or partner in publication of research journal(s)? If 'yes', indicate the composition of the editorial board, publication policies and whether such publication is listed in any international database?

The institute has journal with ISBN Number. In addition, the institute has a partnership with journal in the publication of research journals.

The editorial members are eminent academicians from esteemed organizations. There are two layers of editors: the Editor – in – Chief and the Editorial Boards Members.

3.4.3   Give details of publications by the faculty and students:
* Publication per faculty - 02

* Number of papers published by faculty and students in peer reviewed journals (national / international) – Faculty: 168   Student: 293

* Number of publications listed in International Database (for Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) - 11

*Monographs - Nil

* Chapter in Books -03

* Books Edited -Nil

* Books with ISBN/ISSN numbers with details of publishers -

Following is the list of books of the faculty members:

1. Mr. Rathore M.M., "Thermal Engineering", McGraw Hill Education, ISBN:97800768113,2010
2. Mr. Rathore M.M. ," Engineering Heat and MassTransfer ," University Sc, Press " , ISBN: 97881318061 ,2004
3. Mr. Rathore M.M., "Engineering Heat Transfer", " J.B. Learning ,Berliton ,9780763775,2008
4. Mr.Rathore M.M. , " Comprehensive Engineering heat transfer " ,"Laxmi Publication ,New Delhi , ISBN: 978817008647,2000
5. Mr. Rathore M.M. ," Essential Engineering Thermodynamics " ,"Dhanpat Rai Publication Company , New Delhi ,ISBN: 818743388-3 ,2001
6. Mr. Rathore M.M. ," Introduction to Mechanical Engineering " ,"Dhanpat Rai Publication Company , New Delhi ,ISBN: 818743388-5,2002
7. Mr. Rathore M.M. ," ABC of Mechanical Engineering " ,"Dhanpat Rai Publication Company , New Delhi ,ISBN: 818743388-7 ,2004
8. Mr. Rathore M.M. ," Basic Mechanical Engineering   " ,"Dhanpat Rai Publication Company , New Delhi ,ISBN: 818743388-6 ,2004
9. Mr. Rathore M.M. ," Basic Mechanical Engineering (RGTU) " ,"Dhanpat Rai Publication Company , New Delhi ,ISBN: 81-87433-88-4,2004
10. Mr. Mechkul M. A. ,"Basic Electronics and Mechatronics", Vision Publications Pune, ISBN:978-93-5016-193-7, 2013
11. Mr. H.K. Padmanabhan , "MBA-II " , "Thakur Publisher" ,ISBN:978-93-5163-116-3 , 2014
12. Mr. H.K. Padmanabhan , "EPM" , "Thakur Publisher" ,ISBN:978-93-5163-499-7 , 2014

3.4.4 Provide details (if any) of
   * Research awards received by the faculty -Nil

   * Recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally:

1. Dr.V.A. Wankhede Awarded as "Engineers Achievement Award "by "Institute of Engineers (I) ", Nashik Chapter
2. Dr. M.R. Sanghavi Awarded as "Promising Engineering Award "by "Institute of Engineers (I) ", Nashik Chapter
3. Mrs. K.M. Sanghavi Awarded as "Lady Engineers Award" by "Institute of Engineers (I) ", Nashik Chapter
4. Mrs. B.A. Khivsara Awarded as "Lady Engineers Award" by "Institute of Engineers (I) ", Nashik Chapter
5. Dr. M.R. Sanghavi Awarded as "Significant Contribution Award " by CSI
6. Dr. S.D. Sancheti Awared as "Promising Engineer Award by "by "Institute of Engineers (I) ", Nashik Chapter
7. Mr. P.N.Achaliya Awarded as " Adarsh Shikshak " by Mahavir International ", Nashik
8. Mr. A.R. Bramhecha Awarded as " Adarsh Shikshak " by Mahvir International ", Nashik
9. Mr. U.S. Kasar Awared as " Best Teacher Award " by Ajinkya D.Y. Patil University & Lions Club of Pune
10. Mr. M.S. Barkale Awared as " Best Teacher Award " by Ajinkya D.Y. Patil University & Lions Club of Pune
11. Prof. L B. Pawar Awarded as "Promising Engineering Award "by "Institute of Engineers (I) ", Nashik Chapter
12. Ms. Shirude P.B. Awarded as "Lady Engineers Award" by "Institute of Engineers (I) ", Nashik Chapter

* Incentives given to faculty for receiving state, national and international recognitions for research contributions-Nil

3.5   Consultancy

3.5.1 Give details of the systems and strategies for establishing institute-industry interface?

The institute strongly believes in interaction between technical institutions and industry. The main objective of the cell is to build the relationship between engineering institute and the industry for the research work, placement, summer internship, industrial visit and the consultancy. A number of industry employees conduct expert lectures for the students and provide the information about the latest technologies and methodologies used in the industry. Thus, it helps the students to prepare for jobs in the industry and get exposure to industry requirement.

Objective of the III cell

➢ To build the relationship between the college and the industry
➢ To give an exposure to the students, staff through industrial visit, summer internship and project works

- To help the industry through training, consultancy and research
- To upgrade knowledge and skill through education and training
- To achieve this objective following schemes can be undertaken
  - Organizing Workshops and conferences with joint participation of the faculty and the industries
  - Organizing expert lecture of industry person
  - Involve the industry person for curriculum development
  - Arranging visits of staff members to various industries
  - Provide consultancy by the faculty to industries
  - Joint research programs by engineering faculty and industry person
  - Joint guidance of engineering faculty and industry expert for the students project work

3.5.2 What is the stated policy of the institution to promote consultancy? How is the available expertise advocated and publicized?

- Consultancy is promoted by the management and the institution for the departments and faculties.
- The revenue generated by the consultancy is spent in the research work.

3.5.3 How does the institution encourage the staff to utilize their expertise and available facilities for consultancy services?

- The institution has laboratory facilities, testing tools, and library for faculties and students that can be used to develop projects that are needed in the industries.
- The institution encourages the faculties and students to participate in such type of project development.

3.5.4 List the broad areas and major consultancy services provided by the institution and the revenue generated during the last four years.

Table 3.7.: List of Consultancy area

Sr.no.	Name of Department	Area of Consultancy
1	Civil Engineering	Surveying and Construction work
		Construction, structural audit nd ground water surveying.
		Material testing, soil testing, rock testing, and Geological consultancy.
		Material testing, soil testing, ground water surveying.

3.5.5 What is the policy of the institution in sharing the income generated through consultancy (staff involved: Institution) and its use for institutional development?

- The institution encourages the faculties and students to participate in project development of industry related projects (identified during industrial visit).
- The institution provides facilities for faculties and students that can be used to develop such projects.

3.6   Extension Activities and Institutional Social Responsibility (ISR).

3.6.1   How does the institution promote institution-neighborhood-community network and student engagement, contributing to good citizenship, service orientation and holistic development of students?

The educational philosophy of the institution emphasizes on promotion of social concern and good citizenship. Thus, based on the need, the institute has organized various programmes.

➢ The institute involves students and faculty in community network to **"Plant and Save tree Abhiyan"** under the NSS activity.
➢ Faculty members are also involved in "Dam cleaning Abhiyan" with Tahsil Chanwad at village Panhale.
➢ Faculty members are also involved in propagating awareness regarding higher education, career opportunities and development after 12th standard student in rural and adivasi areas.
➢ The Institute organizes social programmeslike blood donation camp in college, hemoglobin check-up of girls students under "Vidyarthini Aarogya Prabodhan Upkram", SPPU.
➢ Institute organizes computer awareness program such as "E-banking awareness program for women" of chandwad at free of cost.
➢ The institute has "National Social Services (NSS) "Chapter of the Savitribai Phule Pune University, which organizes different community program.
➢ Every year NSS students and staff go camping for 8-days in a village named Panhale (Tahsil: Chandwad), where they carry out activities like dam cleaning, swachata abhiyan, computer training, yoga training, tree plantation etc. for the villagers and students cook their own food.
➢ Under NSS, and social activities, staff and students visit the nearby orphanages and make generous donations.
➢ Institute has implemented the "Earn and learn Scheme" under SPPU, where in financial help can be extended to students.
➢ Also, the annual college magazine team of students and staff carry out social activities related to the theme of magazine such as android app using guidance to the farmers, motivational lectures to the farmers to prevent them from committing suicide, smart devices training to the villagers nearby etc.

➢ On the occasion of Women's Day, motivational lectures are organized for the women employees of the college and outside. The topics of expert lectures are women health care, Women Entrepreneurs etc.

3.6.2 What is the Institutional mechanism to track students' involvement in various social movements/activities which promote citizenship roles?

Every department has a Student association and with the help of student association students can participate in social activity. University level has its own mechanism to track a record of social activity of student under NSS and earn &learn activity.

Also, the annual college magazine team of students and staff carry out social activities related to the theme of magazine such as android app using guidance to the farmers, motivational lectures to the farmers to prevent them from committing suicide, smart devices training to the villagers nearby etc.

3.6.3 How does the institution solicit stakeholder perception on the overall performance and quality of the institution?

Feedback Evaluation Cell oversees the feedback mechanism to solicit stakeholder (student, parents and staff) perception on the overall performance and quality of the institution. These feedback forms are analyzed for improvements

 Internal Stakeholder:
1. Students feedback forms and direct interaction
2. Staff (Teaching and non-teaching) feedback forms

Meeting External Stakeholder:
1. Alumni Association-feedback and suggestions
2. Parents- feedback and suggestions

In some committees constitute students as well as parents such as Women Grievances Redressal Committee, Anti Ragging Committee, and Students Welfare Committee.

3.6.4 How does the institution plan and organize its extension and outreach programmes? Providing the budgetary details for last four years, list the major extension and outreach programmes and their impact on the overall development of students.

The college has conducted various extension activities and outreach programmes. The extension activities and outreach programmes activities viz. NSS Rural Camp, training to the villagers on the use of the fertilizers, Awareness Programs on Waste Management, Environment protection. The Institute has a NSS chapter and arrange NSS camp in association with Savitribai Phule Pune University .the student of NSS participate in various activities such as, awareness regarding social issues , tree plantation and blood donation .

Table 3.8: The following table shows the details regarding extension and outreach.

Name of Activity	Purpose	Target Audience	Venue	Budget/Expenditure
Job Opportunities in Automation	Creating Awareness about jobs after engineering	TE & BE Students	Auditorium, SNJB COE, Chandwad.	2000/-
Importance of GATE in Public Sector Companies	Creating awareness about competitive exams	BE Students	Auditorium, SNJB COE, Chandwad.	NIL
Workshop on PLC basics	To enhance the knowledge of automation in students	Polytechnic students of E&TC of nearby colleges	PG LAB, E&TC Department, SNJB COE, Chandwad	NIL
How to bridge gap between Industry & Institute	To realize the difference and similarity between academics and industry environment	TE & BE students	Auditorium, SNJB COE, Chandwad.	NIL

3.6.5 How does the institution promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International agencies?

As an effort to stimulate social consciousness among students, the institution encourages student participation in NSS. They promote understanding of social realities and develop concern for the well-being of the community particularly of the weaker sections. It also enriches the personality of the volunteers. NSS motivates students to make positive contribution towards the community. The regular activities of the NSS are conducted at the villages such as Panhala and other nearby villages of Tal. Chandwad. NSS students organize annual blood donation camps and other community development initiatives.

3.6.6 Give details on social surveys, research or extension work (if any) undertaken by the college to ensure social justice and empower students from under-privileged and vulnerable sections of society?

A number of guest lectures have been delivered by faculty members on career opportunities after 12th to create awareness about career and higher education among the rural students.
Extension:

➢ Visit to "*Anathasram"* and donation to Anathasarm .
➢ Awareness campaign on water management
➢ Blood donation camp
➢ Hemoglobin checkup of girls

3.6.7 **Reflecting on objectives and expected outcomes of the extension activities organized by the institution, comment on how they complement students' academic learning experience and specify the values and skills inculcated.**

➢ Through the extension activities qualities like communication/ expressive skills, group work culture, self-esteem are inculcated in the students.
➢ Students can understand day today life and culture of the rural areas.
➢ It helps to identify the thrust areas in rural development and plan for the same in upcoming years.
➢ The extension activities help students to understand real life problem.
➢ NSS camp plays a vital role to develop social awareness of a student.
➢ Students learn vital qualities like team work, leadership, sense of responsibility and above all compassion for fellow human beings who are less benefitted.
➢ It helps in nurturing moral values in students.

i. **How does the institution ensure the involvement of the community in its reach out activities and contribute to the community development? Detail on the initiatives of the institution that encourage community participation in its activities?**

The activities initiated by the institution for community development are:

- Blood Donation camp
- Tree plantation.
- E-Banking training for Women.
- Hb checking of girls students.
- Computer Fundamentals training for Anganwadi Sevika.
- Swachhata Abhiyan
- Matdar Nondani Abhiyan .

These activities ensures community involvement.
NSS students visit the rural area and involve the villagers in their group activity.

3.6.9 Give details on the constructive relationships forged (if any) with other institutions of the locality for working on various outreach and extension activities.

➢ Blood donation camp in collaboration with red-cross society
➢ Tree plantation in collaboration with schools and villages
➢ Dam Maintenance.
➢ Cleanliness drive in village Panhale
➢ Awareness camp for villagers about computer literacy. Ex. Anganvadi Sevika Computer training.
➢ The college infrastructure is made available to the nearby institutions on demand to carry out computer training activities for staff and students.

3.6.10 Give details of awards received by the institution for extension activities and/contributions to the social/community development during the last four years.

➢ The college has received Appreciation Certificates and memento from …………….for excellent work in blood donation activity.
➢ Institute has received an appreciation letter form ….Village for dam maintenance and also News was broadcast in news media.

3.7   Collaboration

3.7.1 How does the institution collaborate and interact with research laboratories, institutes and industry for research activities. Cite examples and benefits accrued of the initiatives – collaborative research, staff exchange, sharing facilities and equipment, research scholarships etc.

➢ Signing MoUs with industries.
➢ International Conferences gives the platform for student and staff to communicate with research and maintain the collaborative culture.
➢ Executive industry sponsored student projects
➢ Joint Venture with Research journals in International Journals
➢ Membership of IIT Bombay Library.
➢ Experts from research field and industry are called to give guest lectures on the emerging areas of research.
➢ State and National level workshop with BCUD SSPU organized for Staff and student.
➢ The collaboration has following favorable effects on college activities:
➢ It helps students and staff to undergo in plain training in various types of industries.
➢ Invites industry expert to address recent trends technologies used in industry.
➢ Publication of joint research papers.

3.7.2 Provide details on the MoUs/collaborative arrangements (if any) with institutions of national importance/other universities/ industries/Corporate (Corporate entities) etc. and how they have contributed to the development of the institution.

Table: 3.9: The institute has MoUs with several esteemed industries at departmental level.

Sr.No.	Name of the Collaborating Agency	For Research Facilities	No. of year
1	ARK Technosolution, Mumbai	Seminars, Training to Students	5
2	Sonic Multitech Pvt.Ltd, Nashik	Seminars, Training to Students	3

3	Electronics Study Center, Nashik	Training to Students	5
4	Next Zone Technology, Nashik	Training to Students	5
5	TELEMAN Institute of Wireless Technology, Thane	Training to Students	3
6	TAACT Automation, Nashik	Training to Students	3

i.   **Give details (if any) on the industry-institution-community interactions that have contributed to the establishment /creation/up-gradation of academic facilities, student and staff support, infrastructure facilities of the institution viz. laboratories / library/ new technology /placement services etc.**

- An Industry-Institute-Interaction cell has been established by the college.
- Under III cell following activities have taken place:
- Formation of III cell at the institute.
- Framing the Manual of III cell and distribute to the industry.
- Formation of Advisory board.
- Event Calendar, Expert lectures, industry experts in the field related to syllabus.
- Industrial visits.
- Identification of industrial needs.
- Sponsored projects, training program etc.
- Consultancy work.
- To finalize training needs of the students.

3.7.4 High-lighting the names of eminent scientists/participants who contributed to the events, provide details of national and international conferences organized by the college during the last four years.

The college organizes International Conference every year. These conferences invite eminent academicians from diverse disciplines as a key note speaker as well as for participation in the conference as a member. The details of the conferences organized and some person participated invitees are as follows:

Table: 3:10 Eminent Personality

Sr.No.	Event Name	Name of the Eminent Participant	Date
1.	ICRTET'13	Dr.A.S.Sayyad	22nd Feb 2013
2.	ICRTET'13	Prof.S.B.Bagal	22nd Feb 2013
3	ICRTET'13	Prof.S.T.Gandhe	22nd Feb 2013
4	ICRTET'14	Prof.Dr.N.Futane	28th March 2014
5	ICRTET'14	Prof.Hemprasad Patil	2^{8th} March 2014
6	ICRTET'14	Prof.P.G.Salunke	28th March 2014
7	ICRTET'14	Prof.S.George	28th March 2014
8	ICRTET'15	Prof.B.S.Agarkar	2nd July 2015
9	ICRTET'15	Prof.Dr.D.M.Chandwadkar	2nd July 2015
10	ICRTET2014	Dr. S. K. Somani	28-30 March 2014
11	ICRTET2014	Dr. A. G. Chandak	28-30 March 2014
12	ICRTET14	Prof. Dr. S. H. Sawant	28-30 March 2014
13	ICRTET2014	Prof. Dr. C. S. Pathak	2-4, July 2015
14	ICRTET2015	Dr. M. P. Ray	2-4, July 2015
15	ICRTET-15	Prof. Dr. R. G. Tathed	2-4, July 2015
16	ICRTET2016	Dr. S. D. Suryawanshi	28-30 April 2016
17	ICRTET2016	Dr. A. G. Thakur	28-30 April 2016
18	ICRTET2013	Dr. P D Jadhav	24/03/13
19	ICRTET2015	Dr. Suhasini Madhekar	28/03/14
20	ICRTET2016	DR. D. G. Regulwar	02/07/15
21	ICRTET2016	Dr. Sunil Kute	28/04/16
22	Expert Lecture	Dr.Ashok Joshi (Utah, USA)	16/03/2017

3.7.5 How many of the linkages/collaborations have actually resulted in formal MoUs and agreements? List out the activities and beneficiaries and cite examples (if any) of the established linkages that enhanced and/or facilitated –

   a) Curriculum development/enrichment
   b) Internship/ On-the-job training
   c) Summer placement
   d) Faculty exchange and professional development
   e) Research
   f) Consultancy
   g) Extension
   h) Publication
   i) Student Placement
   j) Twinning programmes
   k) Introduction of new courses

l) Student exchange

m) Any other

a) Curriculum development/enrichment

A number of co-curricular activities to enrich students' knowledge quests are organized by the departments of the institute. Following few are enlisted in the table below:

Table 3.11: List of add-on Courses for student.

Sr.No.	Name of the Add-on Course	Name of the Organization
1	50 Days Course on Automation	TAACT, Nashik
2	180 Days Course on CAD,CAM,CAE	Zest Engineering Services and Technologies, Pune
3.	5 Days Soft Skill Training (IT & Computer student)	Zensar Technologies , Pune
4.	15 Days core Java and advance Java Programming Training (IT & Computer Student)	Zensar Technologies , Pune
5	10 Days project Based Training	Arete Technology , Nashik
6	1 Month IOT Practical Hands on training	Intelidemics , Nashik
7	PHP Web Development Training	Congnifront Technology , Nashik
8	3 Month Android Application Development Training	Spark Technology , Nashik
9	Automation	TAACT Automation, Nashik
10	Android	Virscent Technologies pvt ltd.
11	Digital Signal processing using XILINX FPGA	COREL Technologies, Pune (SPPU Sponsered)
12	Industrial approach in Electronics	Electronic Study Center, Nashik
13	PCB Design using Eagle CAD software	Technocop Technologies, Noida
14	STAAD PRO	Dr. P. D. Dhake, ,KKWEER

b) Internship/ On-the-job training

Table 3.12: List of Internship/On-the-job training

Sr.no.	Name of Program: Internship/ On-the-job training	Name of the Organization
1	Project based Internship /on –the Job training on PHP and Android for TE Student	Arete Technology

2	1 Month PHP Web development Internship Program	Cognifront
3	Project based Internship /on –the Job training on PHP and Android for BE Student	Arete Technology
4	FACE Aptitude Test Training First phase for TE and BE Students	FACE
5	15 Days Android App Development Program	Spark Technology
6	Training on PCB Designing	Electronics Study Center, Nasik
7	Internship on Telecommunication Engineering	Bharat Sanchar Nigam Limited Akola
8	On the job training on Telecom customer services.	OMIZ Solution Nasik

c) Summer placement

Table 3.13: List of Summer Placement.

Sr.no.	Name of Placement Program	Name of the Organization
1	Automation Engineering Program	TAACT Automation,Nasik
2	Telecommunication Training Program	TELEMAN Institute of Wireless Technology Pvt. Ltd. Thane
3	Cocubes Assessment Program	Cocubes Agency,Pune
4	Zero Plus Tech designs	Nashik
5	Ureka Forbs	Nashik
6	Just Dial	Pune
7	Competent Servies Pvt.Ltd	Nashik
8	Epitrans Electricals Pvt.Ltd.	Nashik
9	Magatram Clearing and forwarding Pvt. Ltd.	Nashik
10	IDBI	Nashik
11	Mahindra & Mahindra	Nashik
12	Glaxo Smith Kline	Nashik
13	NAMCO Bank	Nashik
14	Merksline	Mumbai
15	Global Innoserve Solutions Pvt.Ltd.	Mumbai

16	Aherrao Associates Nashik	Nashik
17	Gameloft Software Pvt.Ltd.	Hydrebad
18	ADESH CONSULTANCY Pvt.Ltd.	Nashik
19	ICICI Bank	Malegaon
20	Geojit Finance ltd	Nashik
21	Syntel Inc	Pune
22	Tech Trainers & Testers Ltd	Malegaon
23	Vodafone Ltd	Malegaon
24	Videocon Ltd	Aurangabad
25	Fena Ltd	Jalgaon
26	Pantaloon India Ltd	Nashik
27	Y.J. Padhey & Co.	Thane
28	LIC India	Thane
29	Pramukh Kotex P. Ltd	Shirpur
30	Alembic Pharmacutical Ltd	Mumbai
31	Bajaj Allinaz Life Insurance Ltd	Satana
32	Bajaj Allinaz Life Insurance Ltd	Yeola
33	Bajaj Allinaz Life Insurance Ltd	Nashik
34	Vishwas Auto Engineering Works	Pune
35	Mahindra Sona Tractors Ltd	Nashik
36	ICICI Prudentila Life Ins. Co.	Nashik
37	Edu NET IT Solutions	Nashik
38	Aadesh Texfab Ltd	Dhule
39	Gateway Business Solution Ltd	Nashik
40	Just Dial Ltd.	Mumbai
41	Prsshant R. Sharma & Associates	Yeola
42	Wellness Forever Medicare Pvt. Ltd.	Mumbai
43	Just Dial Ltd.	Nashik
44	Datamatics Global Services Ltd.	Nashik
45	Bank of Newyork & Melon	Pune

d) Faculty exchange and professional development

Table 3.14: List of training programs

Sr.no.	Name of training Program	Name of the Organization
1	IOT Hands Practical Session	G.H. Raisoni College of Engineering , Pune
2	MIS Seminar	Ashoka School of Management , Nashik
3	Physical Layer of IEEE 802.16e	LokneteVyankatraoHiray Arts, Science & Commerce College, Nashik
4	Data Communication	Pravara Rural engineering college, Loni

e) Research –Nil

f) Consultancy

Table 3.15: Types of Consultancies undertaken

Sr.no.	Type of Consultancy	Name of the Organization
1	Testing	BPCL
2	Testing	Smart Steel Merchant
3	Bitumen Content Gradation	Supreme Infra. , India
4	Filed Density by core cutter	M/S Tuljai Const.
5	Inspection of Tank	ZPRWS Dugaon
6	Testing	M/S Kiran v Arote
7	Tensile	M/S Baviskar Saurabh Sunil
8	Compressive Strength	M/S Ayaz Pathan
9	Test Pit for Soil exploration	KKH Arts & SMGL Comm, & Sci. College, Chandwad
10	Compressive Strength	Smart Steel Merchant
11	Gradation, Slit content , water absorption	BPCL
12	Compressive Strength	IOCL

i)   Student Placement
Table 3.16: Student placement record

Sr.No.	Number of students Placed	Year of placement
1	48	2013-14
2	58	2014-15
3	94	2015-16
4	49	2016-17

3.7.6 Detail on the systemic efforts of the institution in planning, establishing and implementing the initiatives of the linkages/collaborations.

➢ Every department encourages the students to undertake the industry sponsored project.
➢ The institute encourages the staff to put your research proposal with BCUD.
➢ The institute offers the labs, library, training and other facilities for development of linkages.

Criterion IV: Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 What is the policy of the Institution for creation and enhancement of infrastructure that facilitate effective teaching and learning?

As per norms provided by AICTE & SPPU we have provided adequate infrastructure to facilitate effective teaching & learning. In addition to the physical infrastructure which caters for co-curricular and extra-curricular activities, the policy is to provide educational infrastructure for students in terms of library resources, software and equipment in the laboratories prescribed in the curriculum. The institute has a policy to provide Wi-Fi facility to the students. Adequate provisions of class rooms with audio visual teaching aids and laboratory infrastructure for each department has been made available.

4.1.2 a) Detail the facilities available for Curricular and co-curricular activities – classrooms, technology enabled learning spaces, seminar halls, tutorial spaces, laboratories, botanical garden, Animal house, specialized facilities and equipment for teaching, learning and research etc.

The institute has infrastructure as per AICTE and SPPU norms. The institute has planned and constructed the infrastructure which facilitates the curricular and co curricular activities .All the departments are fully equipped with the necessary infrastructure to meet the ever-increasing requirements with adequate classrooms, seminar halls, tutorial rooms, laboratories and sufficient space for hosting all academic activities as shown below.

Instructional area (carpet area) in sq.m

a) **Existing programmes (UG)**

Particulars	For existing Intake			
	Numbers		Area	
	Required	Available	Required	Available
Class rooms	18	18	1188	1304.21
Tutorial rooms	05	05	165	184.17
Laboratories	46	48	3036	4472.59
Drawing hall	01	01	132	132
Workshop	02	02	400	602.12
Seminar Hall	03	03	396	443.59
Computer centre	01	01	150	262.4
Library and reading room	01	01	400	490
Total	77	79	5867	7891.08

b) Existing programmes (PG)

Particulars	For existing Intake							
	Numbers				Area			
	Required		Available		Required		Available	
	MBA	ME	MBA	ME	MBA	ME	MBA	ME
Class rooms	02	-	02	-	132	-	149.7	-
Tutorial rooms	01	02	01	02	33	66	33.75	66.79
Laboratories	-	01	-	01	-	66		66
Research lab		01		01		120		120
Drawing hall	-	-	-	-				
Workshop	-	-	-	-				
Seminar Hall	01	01	132	132				
Computer centre	-	-		-				
Library and reading room	-	-	-	-				
Total								

Administrative Area (carpet area) in sq.m.

Particulars	For existing Intake			
	Numbers		Area	
	Required	Available	Required	Available
Principal/directors office	01	01	30	65.77
Board room	01	01	20	32
Office all inclusive	01		300	300.67
Department offices	06	06	120	92.26
Cabins for HODs	07	07	70	117.7
Faculty rooms			$5m^2$/faculty	sufficient
Examination control office	01	01	30	42.18
Placement office	01	01	50	50
Central store /(Stationary stores & Reprography)	01	01	30	78.3
Maintenance	01	01	10	22.18
security	01	01	10	10
House keeping	01	01	10	15
Pantry for staff	01	01	10	10
Total				

Amenities Area (carpet area) in sq.m.

Particulars	For existing Intake			
	Numbers		Area	
	Required	Available	Required	Available
Toilet (ladies & gents)	Adequate		350	374.4
Boys common room	01	01	100	99.35
Girls common room	01	01	100	100
Cafeteria	01	01	150	182.58
Stationary stores & Reprography	01	01	10	10
First aid cum sick room	01	01	10	13.4
Total			720	779.73

The specialized facilities and equipment for teaching learning and research etc. are available in each department and the investment on major and minor equipments available is as follows

Investment on equipments (department wise)

Department	Major equipment cost in Rs.	Minor equipment cost in Rs.
Civil Engg.		
Mechanical Engg.		
Computer Engg.		
Eltr. & Tele-communication Engg.		
Info.Tech engg.		
MBA		
Total amount		

Facilities are available at two different venues:

Research Facilities:

PG Research Laboratory

Other Facilities:

i. Language Laboratory

ii. Video conference room

iii. Computer centre

4.1.2.b) Extra –curricular activities – sports, outdoor and indoor games, gymnasium, auditorium, NSS, NCC, cultural activities, Public speaking, communication skills development, yoga, health and hygiene etc.

The institute encourages and provides facilities for students to participate in various extracurricular activities in order to build team spirit and leadership qualities. A team of faculty members and director of physical education look after all cultural and sports and extracurricular activities of the college.

The details of the facilities are given below:

Outdoor games: PHYSICAL LOCATIONS?

1 .Volley ball court

2. Kho-Kho Ground

3. Holleyball Ground

4 .Kabaddi Ground

5. Cricket Turf

6 .Footballs

7 .Basketball

Indoor Games/ Facilities:

Indoor game facilities like table tennis, chess are provided by the institute, the details of which are given below:

S.N	Details	Numbers
1.	Table tennis	
2	Chess	
3	Carom Boards	
4	Gymnasium equipment	

NSS-

As per guidelines by the university the institute has formed a NSS unit of students. The NSS unit in the college provides platform for various socially relevant services such as

- Jal Yukt Shiwar-weirs construction, sludge removal to enhance storage capacities.

To carry out all the above activities the college provides financial aid, necessary equipments and transportation facilities for camps.

Cultural activities-

The institute has a committee for cultural activities .This committee along with the staff and students of the college organize annual cultural functions. The college provides financial assistance and infrastructure facilities like amphitheatre, public address system, audio visual aids etc. for successful conduction of the event.

Public speaking & communication skills development:

Language lab facility is provided for developing the public speaking and communication skill of students. Soft skill sessions are also arranged for each class.

Yoga health and hygiene

Every year institute organizes sessions on yoga, which will create awareness among staff members and students. Regular health checks up camps are also organized in the institute by physical director.

4.1.3   How does the institution plan and ensure that the available infrastructure is in line with its academic growth and is optimally utilized? Give specific examples of the facilities developed/augmented and the amount spent during the last four years (Enclose the Master Plan of the Institution / campus and indicate the existing physical infrastructure and the future planned expansions if any).

The institute possesses infrastructure as per AICTE and SPPU norms. The requirements and availability of infrastructure is reviewed periodically and the infrastructure is optimally enhanced and utilized.

 ➢ No Deficiency Report from AICTE is obtained every year which ensures that the availability of the infrastructure is in line with the academic growth.
 ➢ All the class rooms are equipped with LCD Projectors and screens. Additionally there are central facilities like central library, computer centre, examination control office, canteen and student recreational facilities.
 ➢ The campus also provides appropriate parking facility for two wheeler and four wheeler vehicles.

Land availability

Land category (Rural /District Head quarter/state capital/metropolitan city)	Area required as per land category (acres)	Total area available
Rural	7.5	7.5

The investment (Rs) in the last four years for enhancing the various infrastructure facilities

Items	2017-18 expensed(Rs)	2016-17 expensed(Rs)	2015-16 expensed(Rs)	2014-15 expensed(Rs)
Building				
Furniture				
Equipments				
Computers and other softwares				
Games and sports/student activity				
Vehicle				
Administrative and other				
Total				
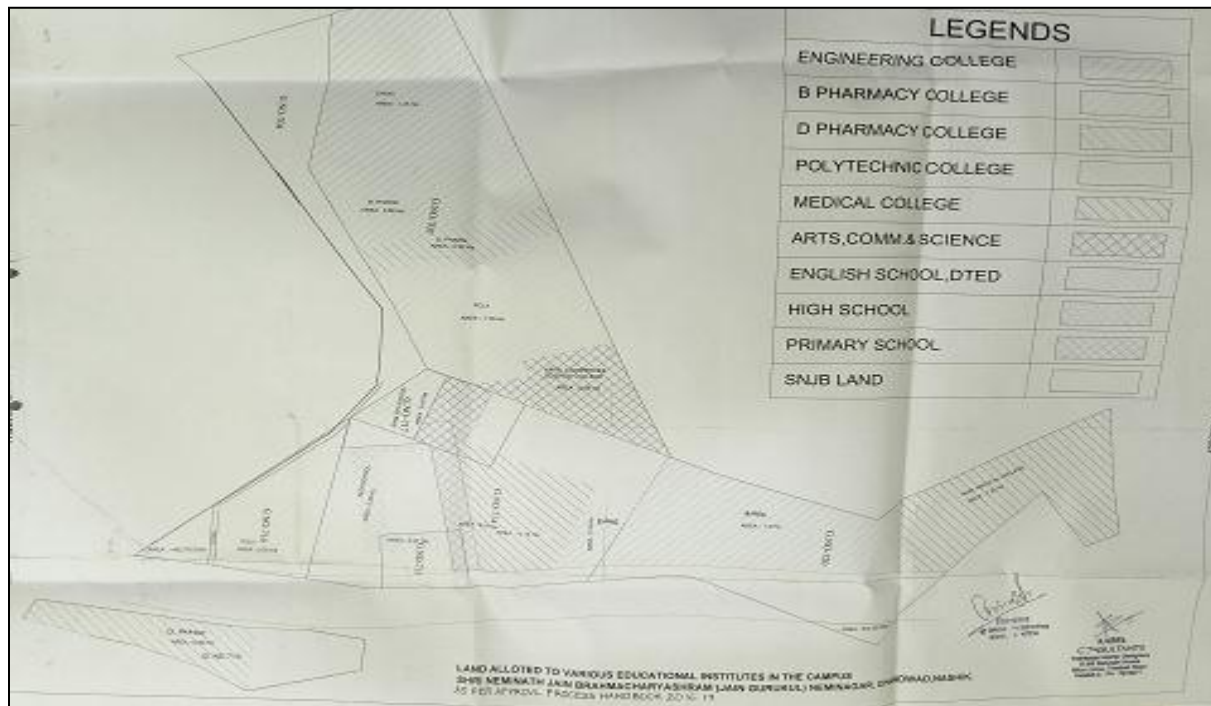
4.1.4 How does the institution ensure that the infrastructure facilities meet the requirements of students with physical disabilities?

➢ The institute has a provision of ramp and wheel-chair for physically disabled students.
➢ Lift facility is available for such students.
➢ Security guards and peons inside the building have been instructed to render necessary physical help.

Provision for special toilet blocks

In accordance with point 2.2.1

4.1.5   Give details on the residential facility and various provisions available within them:

➢ **Hostel Facility –** Accommodation available for Boys & girls
➢ **Recreational facilities, gymnasium, yoga center, etc.-**common to all institutes
➢ **Computer facility including access to internet in hostel-**yes
➢ **Facilities for medical emergencies-** Yes, tie up has been made with homoeopathic college for necessary help.
➢ **Library facility in the hostels-**No
➢ **Internet and Wi-Fi facility-** Yes
➢ **Recreational facility-common room with audio-visual equipment:-**TV room and sports equipment for playing indoor games such as carom, badminton, chess board are available in the hostel
➢ **Available residential facility for the staff and occupancy-** Not available.
➢ **Constant supply of safe drinking water-**Yes, safe drinking water with RO facility is provided.
➢ **Security:** The institute provides 24 hours security.

Security guards are present in the institutes building and for hostels. CCTV has been installed at strategic locations for security reasons.

Rectors are appointed to look after discipline inside the hostel.

Anti-ragging committee of institute visits periodically to hostels.

4.1.6   What are the provisions made available to students and staff in terms of health care on the campus and off the campus?

➢ Tie up has been made with homoeopathic college for necessary help.

➢ Two ambulances are always ready for any emergency in the institute campus.

➢ First aid kit has been provided to each department.

➢ Every year Haemoglobin check up for girls is arranged. Those having deficiency, necessary medical treatment is provided to them.

4.1.7   Give details of the Common Facilities available on the campus –spaces for special units like IQAC, Grievance Redressal unit, Women's Cell, Counselling and Career Guidance, Placement Unit, Health Centre, Canteen, recreational spaces for staff and students, safe drinking water facility, auditorium, etc.

Sr. No.	Name of facility	Availability	
1	IQAC	√	Equipped with phone, computer, fan etc.
2	Grievance Redressal unit	√	
3	Women's Cell	√	
4	Counselling and Career Guidance	√	
5	Placement Unit,	√	
6	Health Centre	√	
7	Canteen	√	1 no. (common)
8	recreational spaces for staff and students	√	Gymnasium, badminton, Table-tennis, cricket, yoga etc.
9	safe drinking water facility	√	RO facility and water cooler
10	auditorium	√	1 no.
11	Amphitheatre	√	1 no.

4.2 Library as a Learning Resource

4.2.1 Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?

Yes, the library has advisory committee as follows

Sr. No.	Name of the Member	Designation
1.	Dr. M. D. Kokate	Chairman (Principal)
2.	Prof. M. M. Rathore	Professors In-charge
3.	Prof. S. J. Rayte	Member
4.	Prof. S. M. Pawar	Member
5.	Prof. N. C. Mutha	Member
6.	Prof. P. P. Chopda	Member
7.	Prof. Y. K. Desai	Member
8.	Prof. H. R. Thakare	Member
9.	Prof. S. P. Fulfagar	Member
10.	Mr. S. Y. Burkule	Member of Non- Teaching Staff
11.	Mr. Shubham Kahandal	Member of Boys Student
12.	Ms. Shivani Hiran	Member of Girls Student
13.	Mr. M. B. Kedar	Coordinator/Secretary (Librarian)

[Answer prepared by Librarian]

Significant initiatives implemented by the committee to render the library, student/user friendly

Our library is providing Open Access Facility to our students; Books are arranged as per department wise as well as classification wise. For the students convenience the cupboards of books are labeled according to the classification wise. We have divided the reference section and magazine section separately. The various sections of the library are displayed by showing arrows. SEROSOFT ERP software is used for easy access of Library.

[Answer prepared by Civil engg. Dept]

significant initiatives implemented by the committee to render the library, student/user friendly

1. Library provides e-books in computer systems to avail the benefit to students and staff.
2. The students have been provided with excellent environment for studies. Daily newspapers, magazines are made available in the reading room.
3. Giving due considerations to the students request, library reading room timings have been extended during examination period. The students are allowed to carry their own books in the library for study.
4. CCTV cameras are installed in the Central Library for security purpose.
5. Online journals are made available through college server within the campus for the access to library electronic resources such as ELSEVIER (science direct) ,J-GATE , Social and Management Science.
6. Library provides OPAC (Online Public Access Catalogue) facility using SEROSOFT ERP software.
7. Spacious study rooms are available.

4.2.2 Provide details of the following:

* Total area of the library (in Sq. Mts.)

* Total seating capacity

*Working hours (on working days, on holidays, before examination days, during examination days, during vacation)

* Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)

Sr. No.	Information	Details	Remark
1.	Total Area of the Library	490 sq.m.	
2.	Total Seating Capacity	125	
3.	Working Hours (Daily)	8 hrs.	
	Before Exam Days	9:30 am to 4:30 pm	
	During Exam Days	9:30 am to 10:00 pm	
	During Vacations	10:00am to 5:00 pm	
	National Holidays & Holidays As Per SPPU Calendar	Closed	
4.	Reprographic Facility	Available	
5.	Library Networking Facility	Yes	
6.	Annual Library Budget (Percentage of Annual Student Fee Collected)	--	
7.	Layout of the Library	Plan attached	
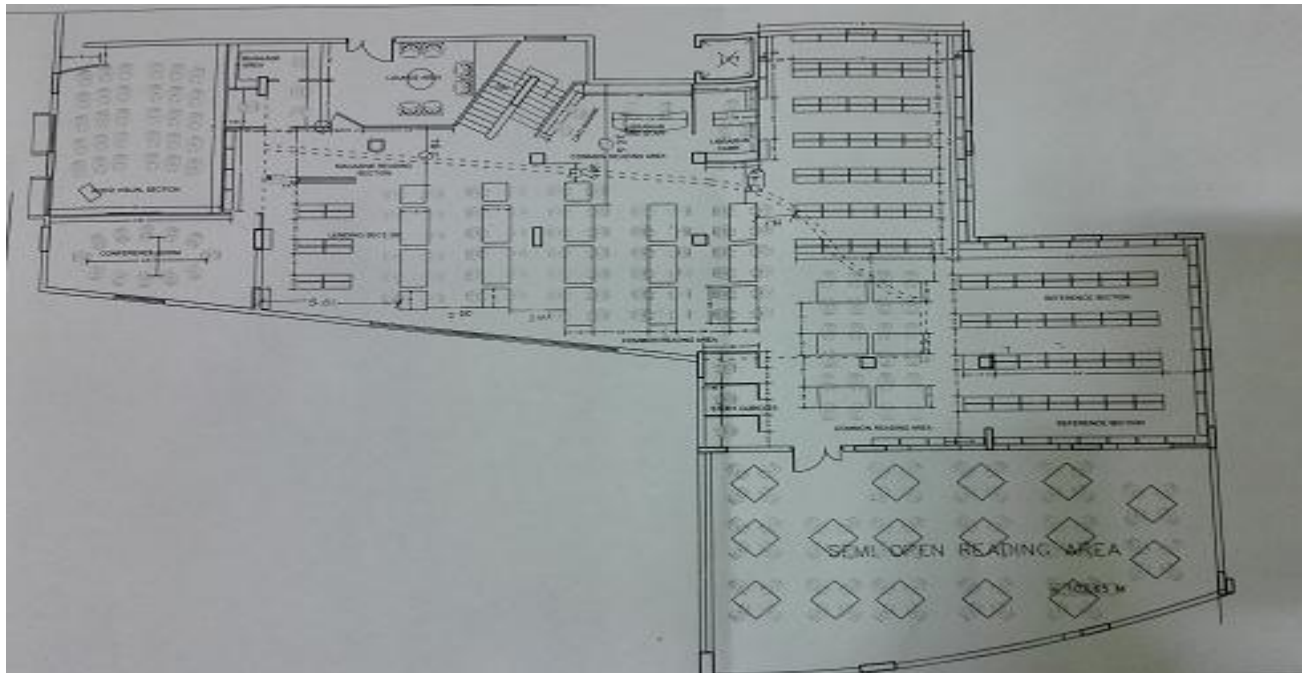
Library Layout

4.2.3 **How does the library ensure purchase and use of current titles, print and e-journals and other reading materials? Specify the amount spent on procuring new books, journals and e-resources during the last four years.**

Librarian issue the circular to all Head of Department with the permission of principal. HOD's collect book requirement from concern subject teacher and send to the LAC before commencement of semester. LAC gives recommendation for purchase of books through HOD and lastly it is put to the principal by checking the availability of the books and costing.

Details of amount spent

Library Holding	2016-17		2015-16		2014-15		2013-14	
	Total No.	Total Cost (Rs)	Total No.	Total Cost (Rs)	Total No.	Total Cost (Rs)	Total No.	Total Cost (Rs)
Text Books	683		950	6,37,643/-	1073	7,43,171/-	756	5,81,981/-
Reference Books	244		686	4,61,741/-	388	2,67,946/-	338	2,61,470/-
Journals/ Periodicals	80	1,63,647/-	98	2,21,805/-	94	1,92,389/-	88	1,57,861/
E-Resources	02	6,30,708/-	02	5,58,361/-	01	4,59,459/-	01	67,416/-
*Any Other (Specify)	--	--	--	--	--	--	--	--
Total								

The college has subscribed following e-journal packages which covers comprehensively all disciplines.

- Elsevier (Science Direct) for Engineering
- J-GATE for Management

*Any other- Library has taken library membership of IIT, Powai

4.2.4 Provide details on the ICT and other tools deployed to provide maximum access to the library collection?

* OPAC

* Electronic Resource Management package for e-journals

* Federated searching tools to search articles in multiple databases

* Library Website

* In-house/remote access to e-publications

* Library automation

* Total number of computers for public access

* Total numbers of printers for public access

* Internet band width/ speed 2mbps 10 mbps 1 gb (GB)

* *Institutional Repository*

* *Content management system for e-learning*

* *Participation in Resource sharing networks/consortia (like*

Inflibnet)

ICT and Other Tools Deployed

Sr. No.	Details	Remark	
1.	OPAC (Online Public Catalog)	Yes	Work in progress
2.	Electronic Resource Management Package For E-Journals	Yes	Elsevier J-GATE
3.	Federated Searching Tools to Search Articles in Multiple Databases	No	
4.	Library Website	Yes	http://www.snjb.org/engineering/ pages/engineering-mba-library
5.	In-House/ Remote Access to E-publications	Yes	Through internet, Wi-Fi
6.	Library Automation	Partially	
7.	Total Number of Computers for Public Access	05[10-as per AICTE]	
8.	Total Numbers of Printers for Public Access	01	
9.	Internet Band Width/ Speed 2mbps 10 mbps 1 gb (GB)	Yes	100 Mbps
10.	Institutional Repository	No [Yes]	An institutional repository includes power point presentations, course notes, NPTEL learning objects, MCQ, Syllabus, Previous Question papers, College

Sr. No		Yes	
			proceedings or research paper of faculties on blogs and website.
11.	Content Management System for E-Learning	Yes	NPTEL
12.	Participation in Resource Sharing Networks/ Consortia (Like Inflibnet)	Yes	DELNET

4.2.5 Provide details on the following items:

* Average number of walk-ins-

* Average number of books issued/return

* Ratio of library books to students enrolled

* Average number of books added during last three years

* Average number of login to opac (OPAC)

* Average number of login to e-resources

* Average number of e-resources downloaded/printed

* Number of information literacy trainings organized

 * Details of "weeding out" of books and other materials

Sr. No.	Details	SEM I	SEM II	Remark
1.	Average Number of Walk-ins	12144	137days	From 1st July 2016
2.	Average Number of Books Issued/ Returned	2448	-	
3.	Ratio of Library Books to Students Enrolled	-	-	
4.	Average Number of Books Added During Last Three Years			5118
5.	Average Number of Login to OPAC			
6.	Average Number of Login to E-Resources	-	-	e-resources are made available through institute's IP address and difficult to specify the number of login
7.	Average Number of Login to E-Resources Downloaded/ Printed	-	-	Not recorded

8.	Number of Information Literacy Trainings Organized	1		Library orientation programme
9.	Details of " Weeding Out" of Books and Other Materials	--	--	

4.2.6 Give details of the specialized services provided by the library

* Manuscripts

* Reference

* Reprography

* ILL (Inter Library Loan Service)

* Information deployment and notification (Information Deployment and Notification)

* Download

* Printing

* Reading list/ Bibliography compilation

* In-house/remote access to e-resources

* User Orientation and awareness

* Assistance in searching Databases

* INFLIBNET/IUC facilities

Sr. No.	Specialized Services	Details	Remark
1.	Manuscripts	No [yes]	Rare books ,FDP resource material is available
2.	Reference	Yes	
3.	Reprography	Yes	1 Xerox machine, 1 scanner, 1Lamination machine
4.	ILL (Inter Library Loan Service)	Yes	IIT, Powai
5.	Information Deployment and Notification	Through notice board	
6.	Download	Yes	through internet
7.	Printing	Yes	

8.	Reading List/ Bibliography Compilation	-- [yes]	Book catalogue
9.	In-House/ Remote Access to E-Resources	-- [yes]	Through internet
10.	User Orientation and Awareness	-- [yes]	Library awareness programmes are held every year and through circulars
11.	Assistance in Searching Databases	Yes	Library staff provides necessary assistance
12.	INFLIBNET/ IUC Facilities	--	

4.2.7 Enumerate on the support provided by the Library staff to the students and teachers of the college.

Library staff helps the students and teachers in case of difficulty in getting the available books. Also, arrival of new books is informed to all departments through circular. Further, copies of revised syllabus send to all the respective heads of departments. In addition to this, different websites for accessing and downloading the research papers, e-books to students as well as staff are provided. Orientation and awareness program arranged for students as well as staff regarding accessing e-resources, OPAC, NPTEL video lectures and, e-books.

[Answer prepared by Civil engg. Dept]

> To search reference books, Journals in shelves and online databases, library staff helps students and faculty members.

> Library conducts awareness and training programs for students and faculty members.

> Question papers and syllabus are made available through college website.

> Photo copying facility, issue of book and book bank facility are also provided by library.

> Through circulars students and staff are made aware of new arrivals.

4.2.8 What are the special facilities offered by the library to the visually/physically challenged persons? Give details.

Library staffs help the physically challenged persons for getting the books and provide necessary help.

[Answer prepared by Civil engg. Dept]

> Priority and assistance is given to such students for their library needs.
> These students can keep books for longer duration.

4.2.9 **Does the library get the feedback from its users? If yes, how is it analysed and used for improving the library services. (What strategies are deployed by the Library to collect feedback from users? How is the feedback analysed and used for further improvement of the library services?)**

Yes, Library gets the feedback from the users by providing the forms to the concerned HOD and the HOD issue the forms to the last year students and get it filled from the students. Then the HOD submit it to LAC, the LAC analyzes the feedbacks forms and recommends corrective measures if any.

[Answer prepared by Civil engg. Dept]

Feedbacks are taken from students at the end of academic year.

Students issues noted in feedback or by interaction are resolved by taking appropriate actions.

4.3   IT Infrastructure

4.3.1. Give details on the computing facility available (hardware and software) at the institution.

• **Number of computers with Configuration (provide actual number with exact configuration of each available system)**

• **Computer-student ratio**

• **Stand alone facility**

• **LAN facility**

• **Wifi facility**

• **Licensed software**

• **Number of nodes/ computers with Internet facility**

• **Any other**

> ➢ **Number of computers with configuration (provide actual number with exact configuration of each available system)**

Sr. no	Configuration	Quantity	Year of purchase
Department:- Computer Engineering			
1	Model: Desktop Computer System IBM 9215-D56	8	2006

	Processor: Pentium IV- 2.8 Ghz RAM: 1GB DDR1 HDD: 80 GB SATA VDU: 15" TFT Monitor Keyboard, Mouse		
2	Model: Desktop Computer System Lenovo 7298-A43 Processor: Core 2 Duo- 2.8 Ghz RAM: 2GB DDR2 HDD: 160 GB SATA VDU: 17" LCD Monitor Keyboard, Mouse	40	2009
3	Model: Desktop Computer System Lenovo 4089-A13 Processor: Core 2 Duo- 2.93 Ghz RAM: 2GB DDR3 1066 Mhz HDD: 320 GB SATA VDU: 18.6" LCD Monitor Keyboard, Mouse	98	2010
4	Model: Desktop Computer System Lenovo 3175-A85 Processor: Core i3 – 3 Ghz RAM: 2GB DDR3 HDD: 500 GB SATA VDU: 18.5" LCD Monitor Keyboard, Mouse	1	2013
5	Model: Desktop Computer System Lenovo Processor: Core i3 – 3 Ghz RAM: 2GB DDR3 HDD: 500 GB SATA VDU: 18.5" LCD Monitor Keyboard, Mouse	1	2014
6	Model: Desktop Computer System Lenovo Tiny Processor: Core i3 – 3 Ghz RAM: 4 GB DDR3 HDD: 500 GB SATA VDU: 18.5" LCD Monitor Keyboard, Mouse	24	2015
7	Model: Desktop Computer System Apple Mini Model A1347 Processor: Core i5 – 1.4 Ghz RAM: 4GB DDR3 HDD: 500 GB SATA VDU: 18.5" LCD Monitor Keyboard, Mouse	1	2015
8	N computing Dump Terminal	10	2015
9	Model: Desktop Computer System Lenovo 8985-B99 Processor: Core 2 Duo – 3 Ghz RAM: 1GB DDR2	2	2015

	HDD: 160 GB SATA VDU: 15" TFT Monitor IBM Keyboard, Mouse		
10	Laptop Lenovo make Model - 76107A	3	2006
11	Laptop IBM make Model :9457A7B INTEL CARE DNO/666 GHz/ Intel 945 GVC SN-L 9AO617/69 A060	2	2006
12	Laptop Lenovo make Model - 7761 1AQ	0	2007
13	Laptop Lenovo ThinkPad SL 410 Model:2931RC2	05	2011
14	Dell laptop Core i5	1	2015
15	Lenovo G50 Model	1	2015
16	THINK CENTRE EDGE 73 10AS00KUHF Core i3 Processor, 4 GB Ram, 500 GB HDD, WIN 8.1 SL, NO ODD, 19.5" LED Screen	20	2016
Department:- Civil Engineering			
1	Model: Computer System Think centre model-359 LU7 Processor: RAM: 4GB DDR1 HDD: 500 GB SATA VDU: 18.5" TFT Monitor Keyboard, Mouse	30	29/9/2013
2	Laptop Lenovo B Series Model –59068974 with 2 GB RAM	1	1/6/2016
3	Model: Desktop Computer System IBM 9215-D56 Processor: Pentium IV- 2.8 Ghz RAM: 1GB DDR1 HDD: 80 GB SATA VDU: 15" TFT Monitor Keyboard, Mouse	6	28/6/2016

Department:-Electronics and Telecommunication			
1	Model: Desktop Computer System Lenovo Tiny Processor: Core i3 – 3 GHz RAM: 4 GB DDR3 HDD: 500 GB SATA VDU: 18.5" LCD Monitor Keyboard, Mouse	25	2015
2	Model: Desktop Computer System Lenovo 7298-A43 Processor: Core 2 Duo- 2.8 Ghz RAM: 2GB DDR2 HDD: 160 GB SATA VDU: 17" LCD Monitor Keyboard, Mouse	02	2009

3	Model: Desktop Computer System IBM 9215-D56 Processor: Pentium IV- 2.8 Ghz RAM: 1GB DDR1 HDD: 80 GB SATA VDU: 15" TFT Monitor Keyboard, Mouse	37	2006
4	IBM-Q2W VDU: 15" RAM: 1 GB HDD: 40 GB Keyboard, Mouse	03	2004
5	HCL Infinity make P4 2.8GHz VDU: 15" RAM: 1 GB HDD: 40 GB Keyboard, Mouse	05	2004

Department:- Information Technology		
1	Lenovo make model 8985-B99* RAM: 2GB HDD: 160 GB VDU: 15" TFT Monitor Keyboard, Mouse	5	23/7/2008
2	Computer System Lenovo make model 9439-BF9 RAM: 2GB HDD: 160 GB VDU: 19" TFT Monitor Keyboard, Mouse	43	23/7/2008
3	Laptop Lenovo Think pad SL410 RAM: 2GB HDD: 320 GB	21	11/8/2011
4	Laptop Lenovo B series Model RAM: 2 GB HDD: 500 GB	2	11/8/2011
5	Model: Desktop Computer System Lenovo Tiny Processor: Core i3 – 3 Ghz RAM: 4 GB DDR3 HDD: 500 GB SATA VDU: 18.5" LCD Monitor Keyboard, Mouse	10	31/8/2015
6	Asus Desktop D3/OMT RAM – 4 GB HDD- 500 GB VDU: 18.5" TFT Monitor Keyboard, Mouse	10	7/1/2015

7	Computer System IBM Model RAM – 256 MB HDD-80 GB VDU: 15" TFT Monitor Keyboard, Mouse	23	16/9/2006
8	HCL make CPU RAM: 1GB HDD: 40 GB VDU: 15" TFT Monitor Keyboard, Mouse	2	2004

Department:- MBA			
1	Model: Desktop Computer System IBM 9215-D56 Processor: Pentium IV- 3.00Ghz RAM:256 MB, DDR1 HDD: 8GB SATA VDU: 15" IBM TFT Monitor Keyboard, Mouse	20	2006
2	Model: Desktop Computer System IBM 9215-D56 VDU: 15" IBM TFT Monitor Keyboard, Mouse	19	2007
3	Model: Desktop Computer System IBM 9215- VDU: 15" IBM TFT Monitor Keyboard, Mouse	1	2009
4	Laptop Lenovo make Model –59068974 Ram -2gb	1	2011

Department:-Mechanical Engineering			
1	Lenovo PC [Model 7298_A43 with 17" LCD, 1GB RAM, HDD 256GB]	10	**5/10/2009**
2	Lenovo PC [Model 4098 A13 with 18.6" LCD,2GB RAM,HDD 256GB]	10	**20/8/2010**
3	Lenovo Computer System Think Model 3597 CU7 [Model 4098 A13 with 18" LCD,2GB RAM,HDD 256GB]	20	**11/9/2013**
4	Lenovo Think Center [Model M72E with i3 processor, 18" LCD,4GB RAM,HDD 500GB]	20	**02/9/2015**
5	Asus computer system [Model D310 MT with i3 processor,17.5" LED,4GB RAM,HDD 500GB]	20	**29/9/2015**

List of Application, System Software (Licensed Software)

Sr. no	Software details	License no.	Qty (no of users)	Date of purchase	Unit cost	Amount
Department:- Computer Department						
1	Operating system win XP Pro	With system	3	2006	6500.00	13000.00
2	Microsoft windows server 2003 (with 20 clients)		2	2006	14943.00	29887.00
3	Microsoft Volume License Agreement Open Value Subscription, Contract Package Number: PKG05826256	V9254269	108	2016	3473.91	375182.28
	Win Svr Std ALNG LicSAPk OLV E 1Y Acdmc AP 2Proc Part No: P73-05566	V9254269	2	2016	2994.75	5989.50
	MAC Operating System	With system	1	2015		
	Android Operating System	With device	1	2016		
Department:- Civil Engineering						
1	WINSL 8 SNGL ACADEMIC LEGALISATION		30	30/9/2013	4950	175197/-
Department:- Information Technology						
1	MS Windows Vista Business SNG IWPG OLP NL		20	5/11/2008	2840	56800/-
Department:-Mechanical Engineering						
1	Operating System Windows Vista Starter		11	**28/9/2013**	7,44,650	7,44,650

Application Software

Sr. no	Software details	License no.	Qty (no of users)	Date of purchase	Unit cost	Amount
Department:- Computer Department						
1	Turbo C++ with media		1	25/09/2006	2798.00	2798.00
2	Microsoft office 2003 Academic Edition		1	25/09/2006	4869.00	4869.00
3	MSDN O.S. 2005 WIN 32 ENG.1 YR.		1	10-05-2006	28808.00	28808.00
4	Visual studio Pro 2005 English OLP NL AE		10	26/09/2006	3913.80	39138.00
5	Visual studio Pro 2005 MEDIA Kit - English OLP NL AE		1	26/09/2006	1666.00	1666.00
6	Visual studio NET media kit		1	26/09/2006	1666.00	1666.00
7	Turbo C++ with media Academic Edition		20	26/09/2006	2548.00	50960.00
8	Oracle 9 i STANDARD (For 10 user license)		1	31/12/2006	54831.00	54831.00
9	Oracle 9 i Media kit		1	31/12/2006	2931.00	2931.00
10	IBM Rational Suite Enterprise(Floting License) 10 user		1	17/10/2006	306720.00	306720.0
11	IBM Rational Suite Enterprise Media		1	17/10/2006	9620.00	9620.00
12	IBM RSA Programme -1) IBM Rational Software Architect. 2) IBM Rational Suit Ent (30 user)		1	14/07/2010	175000.00	175000.00
13	Data Str. Silver plus edition		1	03-09-2011	23940.00	23940.00
14	Cognifront Data Str.&Algorthms V 30		1	29/2/2012	7474.00	7474.00

	Silver Plus Edition					
15	Data Str.&Algorthms Student Version Convert yr To Life Time		10	29/2/2012	355.10	3551.00
16	IIT Video Lecture Series -Engineering Courses Total Aprox -4000 Videos FE -12 Subject -400 Videos .Civil Eng.-16 Subject -600 Videos .Computer 19 Subject 650 Videos .Electrical Eng.-23 Subject 800 Videos Electronics Eng.19 Subject 8000 Videos .Mechanical Eng.13 Subject -700 Videos Add Ext. USB Hard Disk (1000GB) Add Inst.Charges For Out		1	15/11/2010	25000.00	25000.00
1	Fore Sight Software		1	24/09/2014	150000/-	150000/-
2	Auto Cad					
3	Super Civil -CD Software		1	17/08/2005	1350/-	1350/-
4	E- TAB					
5	Midas Gen Plus Version Software		1	15/04/2015	80000/-	80000/-
6	Gram++ GIS Version 11.2		1	17/04/2015	21000/-	21000/-
7	Coagnifrontengg. Mech .Teacher & Student Version		10	3/3/2012	41475/-	41475/-
8	S.R.V.		1	17/08/2005	2000/-	2000/-
9	Super Rate Analysis		1	17/08/2005	2000/-	2000/-

10	ARC GIS Desktop					

Department:- Electronics and Telecommunication

1	MATLAB 7.01		10	29-06-2006	51814.6	518146
2	Microwind Package		10	10-01-2012	35700	357000
3	Microwind Package		05	07-08-2007	61880	309400
4	Xilinx ISE edition 13.2		25	2012	3903.52	97588
5	MATLAB	161052	09	31-3-2014	35784.55	322061
6	Multisim Educational version 10	M71X39165	10	2008	28210	282100

Department:- Information Technology

1	Antivirus Quick heal total security(3 years)		30	15/9/2008	1295	38850/-
2	Quick heal total security standard		20	5/11/2008	1295	25900/-
1	Office 2007 Sngl OLP NL Part No. 021-07856	64605473 ZZE1009	01	5/11/2008	2393/-	2393/-
2	MS Code gear C++ Buqilder pro 2009 AE		20	22/12/2009	1250/-	25000/-
3	Datalogger-16 channel with window compatible software		01	29/3/14	31500/-	31500/-
4	Matlab		01	31/3/14	17040.24/-	17040.24/-
5	Quick heal total security		01	9/2/2016	2000/-	2000/-

Department:- MBA

1	Statistical software-Systat	797094104	10	30/1/2015	20000	200000
2	ORELL-Digital Language lab		20	06/02/2009	6250	125000

Department:- Mechanical Engineering						
1	PRO-ENGG.SOFTWARE		01	**09/03/2007**	**3,22,400**	**3,22,400**
2	Autocad 2009 Perpetual Lic. Ed.		20	**26/02/2009**	**3,11,656**	**3,11,656**
3	Engineering Graphics Teachers Version		05	**28/03/2009**	**8,906**	**8,906**
4	Ansys Software		05	**03/04/2009**	**45,000**	**2,25,000**
5	Catia Software catia V5 R20 Ed.version		15	**18/05/2010**	**22,534**	**3,38,000**
6	Master CAM X6		19	**11/02/2013**	**2,10,000**	**2,10,000**

4.3.2 Detail on the computer and internet facility made available to the faculty and students on the campus and off-campus?

➢ The institute avails internet facility through LAN and Wi-Fi to all the faculty and students.
➢ Laboratories, administrative office and central library are equipped with internet facility
➢ Institute has subscribed for dedicated lease line connectivity of 100Mbps
➢ Wi-Fi routers are installed in all departments and common areas.

Central computing facility with 100 nodes is available for faculty as well as students

4.3.3 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

The college upgrades the computer systems with recent configurations as per requirements of users. As per the norms laid by governing bodies, institute initiates changes in IT infrastructure

➢ The IT infrastructure is available in all the laboratories as per requirements.
➢ Separate computer labs are available in Civil, Mechanical and E&TC Engineering departments.
➢ All the classrooms in the institute are equipped with LCD projectors
➢ Administrative office, T&P cell are also equipped with IT infrastructure
➢ HOD cabins are provided with the internet access.
➢ The institute provides Wi-Fi facility for the staff and students for studies.
➢ The institute ensures network security via -------------- firewall system.

4.3.4 **Provide details on the provision made in the annual budget for procurement, up gradation, deployment and maintenance of the computers and their <mark>accessories</mark> in the institution (Year wise for last four years)**

The details have been shown in the following Table

Sr. No.	Year	Budget (Rs.)	Expenditure (Rs.)
1	2016-17	1500000.00	1340560.00
2	2015-16	2000000.00	1876443.00
3	2014-15	2000000.00	1545885.00
4	2013-14	2000000.00	1986743.00

4.3.5 **How does the institution facilitate extensive use of ICT resources including development and use of computer-aided teaching/learning materials by its staff and students?**

The institute has lease line connectivity of <mark>…</mark>Mbps for internet. All the computers in the laboratories staffrooms and library are networked which provide internet access to all the students and the staff.

Facilities for the staff-

- ➢ For preparation of lecture contents staffs are using ICT facilities.
- ➢ Faculty members download video lectures of the experts like NPTEL and shows it to the students in classrooms as per requirement.
- ➢ All the classrooms in the institute are equipped with LCD projectors.
- ➢ Computer systems for staff in their respective labs are provided with the internet access to keep students records, academic performance, result analysis etc.

Facilities for students-
- ➢ The institute has availed GATE tutor software for preparation of GATE examination.
- ➢ Faculty members have their blogs to share study materials and resources with students.
- ➢ <mark>Cloud based enterprise resource planning (ERP) software for automation of academic and non academic processes is used in the institute to maintain and analyze the data related to various processes of institute.</mark>
- ➢ Scanning, printing and CD writing facilities are made available for students.

4.3.6 Elaborate giving suitable examples on how the learning activities and technologies deployed (access to on-line teaching - learning resources, independent learning, ICT enabled classrooms/learning spaces etc.) by the institution place the student at the center of teaching-learning process and render the role of a facilitator for the teacher.

The learning activities and technologies deployed by the institution keeps the student at the center of teaching-learning process and render the role of a facilitator for the teacher in the following way.

The faculty member exhibit

- The use of various system and application softwares required for the academic growth.
- The online examination software is used for the purpose of university online exams.
- Use of open source software, free learning materials like e-books and PDFs.
- Formation of blogs and web pages.
- Use of software like Latex for writing project reports
- Inspection of plagiarism using software ------------etc.
- Setting up of various utility software such as antivirus and basic formatting and installation of operating systems.
- Conduction of video conferencing.

4.3.7 Does the Institution avail of the National Knowledge Network connectivity directly or through the affiliating university? If so, what are the services availed of?

Currently institute has not availed connectivity of National Knowledge Network but the institute has the facility of NPTEL video downloading.

For different subjects online resource materials of reputed institutes like IIT's are shown in classes.

4.4 Maintenance of Campus Facilities

4.4.1 How does the institution ensure optimal allocation and utilization of the available financial resources for maintenance and upkeep of the following facilities (substantiate your statements by providing details of budget allocated during last four years)?

a. Building

b. Furniture

c. Equipment

d. Computers

e. Vehicles

f. Any other

Institute review the requirements of buildings, furniture, equipments and computer system etc every year. Budget is being allocated from the requirement collected. Below table provides details of budget allocated and expenses done under following items.

	CFY 2017-18		CFY 2016-17		CFY 2015-16		CFY 2014-15	
	Allocated Budget In Rs.	Utilization of budget in Rs.	Allocated Budget In Rs.	Utilization of budget in Rs.	Allocated Budget In Rs.	Utilization of budget in Rs.	Allocated Budget In Rs.	Utilization of budget in Rs.
Building maintenance								
Furniture								
Equipment								
Computer (hardware and software)								
Total								

4.4.2 What are the institutional mechanisms for maintenance and upkeep of the infrastructure, facilities and equipment of the college?

Maintenance of infrastructure:

➢ The institute outsource (provide contract) the maintenance of the infrastructure facility like campus premises ,elevator, water cooling, and purification system, housekeeping to external agencies.

➢ Institute has centralized committee which supervises and monitors maintenance of the infrastructure done by external agencies. Institute also gives yearly contract for pest control.

➢ The institute has a housekeeping supervisor for looking after the maintenance of cleanliness and minor repairs (sanitation and carpentry) required on day to day basis.

➢ Repair and maintenance of civil work is done based on the requirement and complaints received from individual departments. Maintenance of furniture is done by workshop instructor under the guidance of workshop superintendent from mechanical engineering department.

➢ Maintenance of electric appliances is taken care by coordinator from electronics and tele-communication department.

Maintenance of the equipments:

➢ The institute has outsourced the maintenance of lab equipments, computer systems, printers, hardware kit and other lab equipment by the coordinator from IT and Computer department.

Lab in charges at the department level monitors and supervises maintenance done by external agencies.

4.4.3 How and with what frequency does the institute take up calibration and other precision measures for the equipment/ instruments?

The frequency of calibration of the equipment/ instruments are done on ―As and when needed‖ basis. The calibrations of most of the instruments are done by the respective equipment suppliers or concerned company personnel.

Sr.no	Name of the equipment	Date of calibration	Calibration validity	Calibrating agency	Expenditure in Rs.
1.					

Note- Attach necessary calibration certificate

4.4.4 What are the major steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water etc.)?

The major steps taken for location, upkeep and maintenance of sensitive equipment are

> ➢ Logbooks, history card, dead stock register and breakdown register are maintained for sensitive equipment
> ➢ Sensitive equipment are located in a safe place of the institute, routine checkup is also followed.
> ➢ Fire extinguisher are refilled and checked before the expiry date.
> ➢ AMC is followed for all critical equipment like lift, generator etc.
> Maintenance of academic infrastructure facilities
> ➢ The sanction load of MSEB to the institute is 250kVA with 3-phase line. In addition institute has own transformer which is of capacity 325 kVa.
> ➢ The institute also has diesel generator of capacity 125kVA.
> ➢ UPS of rating 7.5 kVA are also available in all computer labs. UPS of rating 0.5kVA has also been given to PC's.
> ➢ Water supply from Chandwad Nagar Panchayat and bore wells situated at different locations in the campus ensures constant supply of water. Ground water recharge is done for bore well situated near central office of the institute.
> ➢ Institute has water cooler installed at each floor with purifier and RO.
> ➢ For general use water having tank capacity of 30000lit. out of which 15000lit/day is used for drinking through coolers with water purifiers.
> ➢ Circuit breakers are provided to protect sensitive equipments.

Provision of transformer along with the stabilizer for sensitive equipments like CNC, CMM, robotic arm etc.

Any other relevant information regarding Infrastructure and Learning Resources which the college would like to include.

Fire fighting system

> ➢ Fire extinguishers are provided in laboratories and passages in the department.
> ➢ Multiple exits in case of emergency are provided.
> ➢ Training for firefighting equipment is also given.
> ➢ Fire extinguisher sand buckets are mounted in all departments.
> **Telecom facility**

> ➢ Telecom facility is available in institute for communicating outside the campus.

Ambience:

➢ The institute is situated in a healthy and good atmospheric location. Infrastructure of the building has good aesthetic view. Academic ambience is enhanced by modern furniture, improved infrastructure and state of the art facilities in class rooms and laboratories.

➢ Class rooms and laboratories are designed with sufficient ventilation and light. Also classrooms are having step structure for better visibility of blackboard. Students have a uniform dress code for equality among the students.

Rain water Harvesting

➢ Institute has a rain water harvesting system which maintains water table to make water abundantly available for usage. All students are made aware of rainwater harvesting.

Criteria V: Student Progress

5.1 Student Mentoring and Support

5.1.1 Does the institution publish its updated prospectus/handbook annually? If 'yes', what is the information provided to students through these documents and how does the institution ensure its commitment and accountability?

Yes, the institution publishes Prospectus every year, provides information to students like: Information of College: Course Details, Management council details (Prabandh Samiti, Board of trustee), Way to reach the campus (Route), Salient features / Facilities provided by Institutes, Course details with Choice code, intake, fees Structure and other details, Eligibility Criteria for various courses, Hostel and other infrastructure details, placement statistics, major recruiters, library & infrastructural facilities and achievements.

5.1.2 Specify the type, number and amount of institutional scholarships / freeships given to the students during the last four years and whether the financial aid was available and disbursed on time?

The institute provides the scholarships / freeships for students:

Academic Year	Financial Assistance Type	Number	Amount (Rs.)
2012-13	Scholarship	208	**6,170,111**
	Free Ship	79	**2,385,389**
	Other		
2013-14	Scholarship	245	**21,803,854**
	Free Ship	74	**2,430,123**
	Other		
2014-15	Scholarship	317	**24,760,597**
	Free Ship	99	**3,219,298**
	Other		
2015-16	Scholarship	3412	**32,265,279**
	Free Ship	133	**4,656,959**
	Other		

5.1.3 What Percentage of students receives financial assistance from state government, central government and other national agencies?

Academic Year	Financial Assistance	Total Student admitted	Total Eligible Student who got Financial Assistant from State Govt.	% of Student got State Govt. Financial Assistance
2012-13	State Government	1433	743	**52**
2013-14	State Government	1637	865	**53**
2014-15	State Government	1622	945	**58**
2015-16	State Government	1815	1151	**63**

5.1.4 What are the specific support services/facilities available for i) students from SC/ST, OBC and economically weaker sections ii) Students with physical disabilities iii) Overseas students iv) Students to participate in various competitions/National and International v) Medical assistance to students: health centre, health insurance etc.vi) Organizing coaching classes for competitive exams vii) Skill development (spoken English, computer literacy, etc.,) viii) Support for "slow learners" ix) Exposures of students to other institution of higher learning/ corporate/business house etc. x) Publication of student magazines

i) Students from SC/ST, OBC and economically weaker sections: Institute offers free Book Bank Facility of social welfare scheme of SPPU to SC/ST students. Under Learn and learn scheme of SPPU social welfare department, the economically weaker section students are given financial assistance under this scheme. The notice is circulated and applications are invited from students. Selection is done on the basis of income and merit of previous year. Remuneration is **Rs. 30 per** hour and students have to work for 90hours per month. They are involved in work like library stacking, clerical job in office and department library, lab monitoring etc.

➢ Students with Physical Disabilities:. Lift Facility is available in the college for Physically Disable students. Faculty and students help these students in academics and other things whenever possible.

- Overseas Students: There are no overseas students who have taken admission in the institute.
- Students to participate in various competitions (National and International): Students are encouraged to participate in various technical and non-technical competitions at College, State, National and International Levels. The notice is circulated in classes to students about various paper presentations, seminars, project competitions, model makings etc. and displayed on notice boards as well. Students are guided by faculty members for participation in these competitions. Usage of laboratories & computer facilities, e journals, library, workshop etc. is extended to students.
- Organizing coaching classes for competitive exams: Institute has established **"Competitive Examination Cell"** to prepare students for competitive examinations like GATE.
- Skill development: The College identifies the need of students who have poor communication skill and provide the coaching to improve their soft skill. Language laboratory facility is available. College conducts various workshops and guest lectures by experts to enhance their skills with the assistance of **"Training & Placement Cell"**.
- Support for "Slow Learners": Conduction of additional / Remedial lectures for slow learners, poor performers. Retests are held regularly conducted to improve performance in Internal Tests. Question bank & Set of question papers of previous University examinations are provided. Model Answers & solutions are provided on department servers. Every department runs **"Mentorship Activity"** for Mentoring the students in academic and social aspects
- Exposures of students to other institution for higher learning/corporate/business house etc.
- Experts, Academicians and industrialists are invited regularly for guest lectures. Our students get the benefit of sharing of their invaluable expertise. The college also arranges visits to industries for practical exposure to industry environment. The students are motivated to participate and present research papers in various national and international conferences. Each department has MoU with companies, through which student and staff can interact with industry in various activities like guest lecture, industrial visit, sponsored projects etc. **"Industry Institute Interaction Cell"** for giving exposure to business / corporate house. The cell helps in bringing industrial experts for lectures, open house discussion and project guidance.
- Publication of student magazines: Institute runs its own College magazine "IMPETUS" on recent social themes which provide a platform for students to express their creativity, showcase their literary talents and to inspire their fellow students. Institute gives financial support and faculty coordinator to guide them.
- As a result of this, "IMPETUS" has been a constant award winner in the past five years at the University level competition. The awards bagged by "IMPETUS" are

- 1st prize in 2013at Nashik district level
- 2ndprize in 2015 at Nashik district level

➢ Medical assistance to students: health centre, health insurance etc :

a) Every year at the commencement of college, Institute conducts medical examination of all students and provides medical assistance to whom it is necessary.

b) Institute provides Insurance Scheme to students which cover health and accidental benefits.

5.1.5 Describe the efforts made by the institution to facilitate entrepreneurial skills, among the students and the impact of the efforts.

The institute has established "Entrepreneurship Development Cell" to boost the entrepreneurial skill among students by organizing Awareness Camp, Business Competition, Project Guidance and bringing financial institutes and sponsors from (state , central , private and individuals)

1) "**EDC Awareness Camp** "was organized by with EDC for Final year students to promote Entrepreneurial skills among students.

2) With the view of creating self-identity for cell an "**EDC Design Competition"** was organized to motivate the students by exploring their creativity and knowledge in the form of visuals.

3) "**EDC Awareness Workshop"** was organized to brief about challenges faced during initial phase of set up, Network Building, Client Relationship and Developing Self-confidence. The workshop covered aspects on:- SME Project Selection, Market Survey Techniques, Project Report Preparation.

4) Seminar on **"Business Plan & Market Research"** was organized on "**How to Prepare Business Plan".** The seminar was intended to cover:- What is Business Proposal?, How to Draft Business Plan? Inclusion of Technical & Economical Feasibility, Identify Market, Methods of Market Research, Live case: Market Research.

5) **"Workshop for Women Entrepreneurship".** This workshop was meant specially only for female students and faculties of EDC. The workshop was carried by: Poster Presentation on Business Idea, Demo Interview, Open House Discussion : Challenges for Women Entrepreneur

6) The **"Bizz Stall Presentation"** was organized to promote and provide platform for those students who have inculcated their business ideas on paper by providing valuable suggestion and guidance. This event was the primary process of selecting business ideas from student.

7) Workshop on **"Fantastic Five and SBI Schemes"** was organized for Final year students. This workshop was put in action by bringing team of **"Fantastic Five- Women Entrepreneur"** on the eve of celebrating **"International Women's day"** This workshop covered in the form of Talk Show:- Different Avenues of Business, Mode of Raising Funds, Role of Various Govt. Bodies, Financial Schemes for SMEs., Role SBI: Entrepreneurial Development and Documentation & Loan Procedures

5.1.6 Enumerate the policies and strategies of the institution which promote participation of students in extracurricular and co-curricular activities such as sports, games, Quiz competitions, debate and discussions, cultural activities etc.

 * additional academic support, flexibility in examinations

 * special dietary requirements, sports uniform and materials

 * any other

➢ Institute encourages students to participate in extracurricular and co-curricular activities. In addition the institute organizes annual events like Technical competitions, Cultural Function, and Entrepreneur Competition.

➢ A student council is constituted which organizes and promotes these activities. Students are also encouraged to participate in various sports, quiz competitions, debate and discussions, cultural competitions at various levels like State, Zonal and National competition.

➢ This helps the students to explore their talents and capabilities in extra-curricular and co-curricular activities.

5.1.7 Enumerating on the support and guidance provided to the students in preparing for the competitive exams, give details on the number of students appeared and qualified in various competitive exams such as UGC-CSIR- NET, UGC-NET, SLET,GATE / CAT / GRE / TOFEL / GMAT / Central /State services, Defense, Civil Services, etc.

The institute has established "Competitive Examination Cell", which aims to provide support and guidance to the students for preparing in competitive exams.

1) The computer department students are provide with the facility of Online Gate tutor Software for preparation Gate Competitive Exams.
2) The MBA department has started Employment Practice Session for students in which Group Discussion, Case Study. This session is Writing, Interview Technique, PPT, Aptitude Test, Industry Desk research. In academic schedule 2 HR slot is kept for preparing students to appear competitive exam like IBPS, MBACET/CAT, LIC Exam, SSC , SET/NET, PET etc

5.1.8 What type of counseling services are made available to the students (academic, personal, career, psycho-social etc.)

1) The institute has promotion "Mentorship Scheme" under their academic practice during which every department runs, Mentors ship programme for counseling the students.
2) Regular monitoring is carried out every week, in which faculties are assigned to student in respect of discussion related to academic, personal, career and psycho-social development.

5.1.9 Does the institution have a structured mechanism for career guidance and placement of its students? If 'yes', detail on the services provided to help students identify job opportunities and prepare themselves for interview and the percentage of students selected during campus interviews by different employers (list the employers and the programmes).

The institute has "Training and Placement Cell", which aims to provide support and guidance to the students for organizing training activities and placement drives (in-house / pool campus drive).T&P cell conducts various sessions to provide career guidance for students. Students are also trained for Aptitude, logical reasoning to enable them for placement. Sessions are organized by key personnel of various companies to make the students aware of current industrial trends and requirements.

The list is attached and maintained by T&P Officer

Year	2012-13	2013-14	2014-15	2015-16
Number of students Placed	38	48	58	94
% of placed students	11	13	16	26

Representative List of Companies visited for Campus Recruitment

S. No	Name of the Company	S. No	Name of the Company
1	Alembic Pharma	13	Netwin Infosolutions
2	Datamatics Global Services	14	Nitor Infotech
3	eClex	15	Perennial Systems
4	Eternus Solutions	16	Persistent Systems Ltd.
5	eZest Solutions Ltd.	17	Rishabh Instruments Pvt. Ltd.
6	FACE Pvt. Ltd.	18	Shree Laxmi Engineering
7	Indus Towers	19	Syntel Inc.
8	Infosys BPO	20	Tata Consultancy Services
9	Inopen Technologies	21	Triveni Turbines
10	Kanchaan Infrastructure	22	Webtech Developers Pvt.Ltd.
11	L&T Infotech	23	Winjit Technologies
12	XL Dynamics	24	Zensar Technologies

List of Training Programmes done for Campus Recruitment

S. No	Name of the Programme	S. No	Name of the Programme
1	CRT for BE students on soft skills and aptitude skills by "Scout Technologies Pvt. Ltd."	6	Six sigma orientation program for BE students by Trybiz Solutions Pune
2	CRT Training for BE students by APART	7	Seminar on GDPI techniques by ITM speakers for BE students
3	Zensar Employability Skill Development program	8	One day seminar on "Entering into corporate world" for MBA students by Mr. Sanjeev Bhamre.
4	Employability Enhancement Skill trainings for 60 Hrs. by "Focus Academy for Career Enhancement, FACE"	9	Workshop on "Current industry scenario and industry requirements" by Mr. Sanjay Puranik from Mahindra and Mahindra
5	CRT Program by Mr. Shrikant Bacchav from "Soft Edge"	10	"Confidence Building Workshop" by Mr. Devadatta Gokhale from GATI.

5.1.10 Does the institution have a student grievance redressal cell? If yes, list (if any) the grievances reported and redressed during the last four years.

The institute has "Grievance Redressal Cell", which aims to attend any grievances with smooth handling and ensure to maintain disciplinary action. The body is constituted every year under the chairman of principal and heads of department. This cell meets regularly under close monitor to handle the complaints and grievance which ensures fair and transparent execution.

5.1.11 What are the institutional provisions for resolving issues pertaining to sexual harassment?

1) The institute had constituted Anti ragging committee which looks into the cases and resolves the cases related to Sexual harassment. This Committee follows the guideline of UGC mentioned in the SAKSHAM Report "Measures for Ensuring the Safety of women and Programmes for Gender Sensitization on Campuses"
2) The committee appoints only four members team for the sexual harassment issue in order to maintains Confidentiality and does fair enquiry providing a context of non-coercion as well as interim relief. Counseling method is used for both parties in a compliant to resolve the issue if possible else any party found guilty in the inquiry process depending on the witness and any other proofs, then punishment is imposed upon the respondent.
3) Sexual harassment committees consist of internal employee and one outside member from amongst non-governmental organization committed to the cause of women.

5.1.12 is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?

The institute has "Anti-Ragging Committee", which aims to attend any issue which smooth handling and ensure to maintain disciplinary action.

5.1.13 Enumerate the welfare schemes made available to students by the institution.

The Institute has made different Welfare schemes available for students like

Earn & Learn Scheme: Earn and learn scheme was implemented in the college with the permission, Guideline and norms of SPPU. The main objective of the scheme is to develop a student as multifaceted personality with academic excellence and a commitment to an towards society. Students are given technical work, official work, library work and sports ground preparation/maintenance work under supervision of the concerned staff. The students have

shown keen interest in the work along with their academics. The students get support and opportunity from institute and remuneration from SPPU.

Insurance: Students Insurance is given to Every Students (Amrtya Shikshan Yojna)

Scholarship: Scholarships is Given A per norms of DTE.

The following table exhibits the details of welfare schemes made available to students by institute.

Academic Year	Name of Schemes	Details	No Student Enrolled
2013-14	Learn & Earn Scheme	NA	29
	Insurance	380,815	850
	Free ship	2,430,123	74
	Scholarship	8,034,875	245
2014-15	Learn & Earn Scheme	131,880	30
	Insurance	360,526	533
	Free ship	3,219,298	99
	Scholarship	11,368,783	317
2015-16	Learn & Earn Scheme	115,650	55
	Insurance	323,344	592
	Free ship	4,656,959	133
	Scholarship	16,848,776	402

5.1.14 Does the institution have a registered Alumni Association? If 'yes', what are its activities and major contributions for institutional, academic and infrastructure development?

The institute has "Alumni Association", which aims to bring Alumni together for making development of institute through their suggestions and contribution for institutional, academic and infrastructure development. The alumni help through:

➢ Conducting mock interviews and resume writing sessions for enhancing placements.

➢ Organizing Placement Drives in campus.

➢ Arranging guest lectures by alumni members and other prominent people for students on current technical and non-technical topics

- Helping students to get sponsored projects and internships
- Donating books to library

Academic Year	Name of Alumni Student	Contribution Towards		
		Academic	Infrastructure	Institutional
2012-13	Manish Sawale	Conducted Seminars, Workshop and Guest Lectures		Member of III Meet as an industrial Representative
2015-16	Darshan Lodha Mr.Mitesh Gidiya Gaurav Polekar Mr.Mitesh Gidiya Mr. Nikhil Morankar			
2013-14	Mr.Tanpure Rohit Mr.Jain Himesh Mr.Badgujar Rajan Mr. Amit Bramhecha			
2016-17	Mr. Darshan Lodha Mr. Mangesh Fasle Mr. Jatin Nahar Ms. Shweta Lunkad Ms. Khyati Nirmal			Contributed to Vision & Mission Statement

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5.2 Student Progression

5.2.1- Providing the percentage of students progressing to higher education or employment (for the last four batches) highlights the trends observed.

Academic Year	Student Progression	Department wise % Student Progression							
		MECH	I.T	CIVIL	E&TC	COMP	MBA	ME	TOTAL
2013-14	UG to PG	12	2.04	10	12	10	-	NIL	7.67
	PG to Ph.D	-	-	-	-	00	-	NIL	
	Employed	-	-	-	-	-	-	NIL	
	1) Campus Selection	5	11.22	-	-	14	40	NIL	11.70
	2) Other than Campus Recruitment.	-	11.22	30	5.9	06	13	NIL	11.02
	Entrepreneurship/Self Employment	1	4.08	25	-	00	15	NIL	7.51
2014-15	UG to PG	12	4	15	7.7	07	-	NIL	7.61
	PG to Ph.D	-	-	-	-	00	-	NIL	
	Employed	-	-	-	-	-	-	NIL	
	1) Campus Selection	10	8.66	-	1.2	29	13	NIL	10.31
	2) Other than Campus Recruitment.	2	8.66	30	12.85	10	33	NIL	10.08
	Entrepreneurship/Self Employment		2.6	5		00	9	NIL	2.76
2015-16	UG to PG	14	-	4	6.12	11	-	NIL	5.85
	PG to Ph.D	-	-	-	-	00	-	NIL	
	Employed	-	-	-	-	-	-	NIL	
	1) Campus Selection	13	6	-	13.26	20	44	NIL	16.04
	2) Other than Campus Recruitment.	9	6	20	18.36	22	33	NIL	18.06
	Entrepreneurship/Self Employment	-	-	5		00	9	NIL	2.33

5.2.2- **Provide details of the programme wise pass percentage and completion rate for the last four years (cohort wise/batch wise as stipulated by the university)? Furnish programme-wise details in comparison with that of the previous performance of the same institution and that of the Colleges of the affiliating university within the city/district.**

A) 5.2.2.1   Batch wise Completion percentage –

Batch	particular	Department wise							
		MECH	I.T	CIVIL	E&TC	COMP	MBA	M.E.	TOTAL
2013-14	Enrolled students	-	73	58	67	61	54	18	47.71
	passed students	-	24	25	63	35	38	2	26.71
	%of passing	-	32.88	43.1	94.02	57.37	70.37	11	44.10
2014-15	Enrolled students	79	87	74	78	92	56	18	69.14
	passed students	39	38	38	56	58	37	10	39.42
	%of passing	49.37	43.68	51.35	71.8	63.04	66.07	56	57.33
2015-16	Enrolled students	160	87	80	98	88	46	17	82.2
	passed students	70	45	43	64	85	36	11	50.57
	%of passing	43.37	51.72	53.75	65.31	71.8	78.28	65	61.31

B) 5.2.2.2   Program/branch wise details of comparison of passing percentage

Year	% Of passing						
	MECH	I.T	CIVIL	E&TC	COMP	MBA	ME
2012-13	77%	98%	87			77	NA
2013-14	74%	98%	96	95		78	11
2014-15	80%	98%	91	90		86	56
2015-16	71%	95%	78	82		88	65

5.2.3. How does the institution facilitate student progression to higher level of education and/or towards employment?

The institute has established "Competitive Exam Cell' **for** conducting various activities and encouraging/guiding students for higher education and employment are carried out**.** This cell

focuses on preparing students to appear for entrance exams of higher education like GATE as well as competitive exams like UPSC/MPSC/Banking etc.

This cell arrange various activities like GATE forum, GD katta etc and submit its documented report for this activity.

5.2.4 Enumerate the special support provided to students who are at risk of failure and drop out?

Department wise a **"Mentor Scheme"** has set up for academically weaker students. This cell will identify students who are weak/slow in academics and are at risk of failure. This cell acts to establish liaison between drop out students and department activities. This Cell tries to find out the reasons/problems faced by these students and arrange special activities to bring them into main stream and boost their confidence. Activities like extra lectures, guest lectures, vernacular language teaching wherever necessary, personality grooming etc are arranged.

5.3 Student Participation and Activities

5.3.1 List the range of sports, games, cultural and other extracurricular activities available to students. Provide details of participation and program calendar.

There are various sports available for students like Football, cricket, Boxing, Volleyball, , Chess, badminton, Weight Lifting, Athletics Etc, Also every year College arranges Annual gathering in college which includes Sports and Cultural Activities for student.

5.3.2 Furnish the details of major student achievements in co-curricular, extracurricular and Cultural activities at different levels: University / State / Zonal / National / International, Etc. for the previous four years.

Sr.No.	Name of Student	Class F.E./S.E./T.E./ B.E.	Type of activity Sports/Cult ural/ Extracurric ular	Level University/S tate/Zonal/ National/Int ernational	Co ordinator	Year	Venue	Remark
1	Mayur Kumbhoje	BE Mech	Sports	Zonal	H. S. Deore	2014-15	Nashik	Cricket
2	Mayur Kumbhoje	BE Mech	Sports	Interzonal	H. S. Deore	2014-15	Pune	Cricket
3	Mayur Kumbhoje	BE Mech	Sports	University	H. S. Deore	2014-15	Pune	Cricket
4	Sangram Waghchaure	BE Mech	Sports	National	H. S. Deore	2014-15	Chandi gard	3rd in Street football India Nationa l Champi onship 2014
5	Mehul Jain	BE Civil	Sports	National	H. S. Deore	2014-15	Chandi gard	3rd in Street football India Nationa l Champi onship 2014
6	Shakti Dada Kedare	TE IT	Sports	zonal	H. S. Deore	2014-15	Chand wad	Weightl ifting
7	Swapnil Kusnale	TE Mech	Sports	State	H. S. Deore	2014-15	Nashik	Boxcric ket

8	Ishwari Yeolerkar	SE Comp	Sports	National	H. S. Deore	2014-15	Nashik	All India Open FIDE Rating Chess Tournament 2015 and scored 4 points.
9	Ishwari Yeolerkar	SE Comp	Sports	State	H. S. Deore	2014-15	Nashik	Maharashtra state FIDE Rating Chess Tournament 2014 and scored 5 points

5.3.3 How does the college seek and use data and feedback from its graduates and employers, to improve the performance and quality of the institutional provisions?

➤ **Program Exit Survey:** Program Exit survey is taken from the students every year. A set of question are based on programme and course outcome is given in the survey form to measure the quality of teaching, placement assistance. Their feedback is collected and analyzed. Corrective measures are adopted as per the feedback to improve teaching competencies of the faculty thereby enhancing student learning.

➤ **Teacher Feedback survey:** At the end of semester every departments collects feedback from the students through a structured questionnaire. This is used to obtain information about the performance of teacher, which helps in plan course of action for improving performance and design some polices for enhancing Teaching – Learning process.

➤ **There are formats for Hostel, Canteen, Alumni and Employers feedbacks too.**

5.3.4 **How does the college involve and encourage students to publish materials like catalogues, wall magazines, college magazine, and other material? List the publications/ materials brought out by the students during the previous four academic sessions**.

➢ The college has its own magazine "Impetus" which was started in year 2011-12.

➢ The students are encouraged for write ups in technical subjects and general which helps to prosper their other hobbies. For the same these kinds of activities are essential through which students can express their feelings in variety of subjects.

College Magazine Procedure

1. College Magazine Co-ordinator is appointed by Principal through consultation with all HODs.

2. Department magazine co-coordinators get selected through their interest and in consultation with respective HODs.

3. Notice gets circulated to inform that the college magazine committee has to be formed; the interested students should register their name to the respective departmental coordinator for the interested field.

4. In a meeting of all coordinators, student members, magazine in charge finalizes the topic for the magazine.

5. Magazine in charge takes approval for the topic from Principal.

6. Magazine In charge finalizes the schedule for the magazine activity.

7. Magazine in charge distributes the various fields (English, Marathi, Hindi, Technical, Social, Photo gallery etc.) to various coordinators; also finalizes the team member form students for every field.

8. Notice gets issued towards all the students in college to ask them for articles, poems, photos etc. for all the fields; with deadline.

9. Students have to submit this material to the respective heads of the field.

10. The respective in charge of every field has to check all the received material carefully, with the help of the team members.

11. After finalizing the material for all the fields, editing team works on this material.

12. After editing, all the shortlisted, edited material goes for the printing.

13. A test copy gets printed which gets checked by all the departmental coordinators and magazine in charge.

14. Finalized copy (after all corrections) goes for the final print.

5.3.5 Does the college have a Student Council or any similar body? Give details on its selection, constitution, activities and funding.

Yes, the college has student council body

➢ Works as a facilitator between the students and the college and coordinates all the extracurricular, co-curricular activities and annual Gathering of the college.
➢ Maintains overall discipline on the campus
➢ Provides information to the students regarding various beneficiary schemes available at college & university level and campaign to create awareness regarding these schemes budgetary provisions are made in the annual budget to take care of all activities conducted by the student council.

5.3.6 Give details of various academic and administrative bodies that have student representatives on them.

Yes, the institute has student representation and participation has been an integral part of academics and administrative bodies. The objective behind keeping students in academic and administrative bodies is to understand the things from student's perspective and make them aware about the various processes through which college can maintain the transparency in the processes.

Student representations are in the following:

➢ IQAC
➢ organizing committees for Events (seminars, conferences and workshops)
➢ All Department Association activities of students and annual festivals are
➢ Organized by students
➢ Earn and Learn Scheme of SPPU
➢ Student Council

- Library Committee
- Student Chapters of Professional Society
- Cultural & Extra-co-curricular activity
- Sports & NSS activity
- EDC
- NSS

5.3.7 How does the institution network and collaborate with the Alumni and former faculty of the Institution. Any other relevant information regarding Student Support and Progression which the college would like to include.

- College keeps track with the outgoing students as well as faculties, so that

1. The students who are joining various industries can update the college with the current technological trends in the market.

2. The faculty who have left the college may have joined some industry or some other college, will be helpful as a resource person for the future.

3. The institute organizes Alumni Meet regularly. The Heads of the Departments, faculty and staff are in constant touch with the alumni through e-mail, social media and various activities conducted by alumni association.

4. Alumni are invited to deliver expert lectures and evaluate student projects.

5. Faculty members are in personal touch with former faculty and collaborate for conducting faculty development programs, workshops etc.

Criterion VI: Institutional Vision and Leadership

6.1 Institutional Vision and Leadership

6.1.1 **State the vision and mission of the institution and enumerate on how the mission statement defines the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, institution's traditions and value orientations, vision for the future, etc.?**

Our Vision:

Transform young aspirant learners towards creativity and professionalism for societal growth through quality technical education.

Our Mission:

1. To share values, ideas, beliefs by encouraging faculties and students for welfare of society.
2. To acquire the environment of learning to bridge the gap between industry and academics.
3. To enhance diverse career opportunities among students for building nation.
4. To transfer the suitable technology, particularly for rural development.

We follow traditions and value orientations activities in the institution:

➤ Tradition of felicitation of guests visiting our institution.
➤ Beginning of activities by Holy mantras like *Navakar Mantra and Saraswati Vandana*.
➤ National anthem at the beginning of college hours.
➤ Birth anniversaries of great personalities such as SavitribaiPhule, Shivaji Maharaj, Dr. Radhakrishnan, Sir Visvesvaraya.
➤ Cultural programs as part of Annual Social Gathering.
➤ Social programs are arranged by the institution include blood donation camp, NSS camp , Awareness of Digitization and Cashless India in Tribal area's Ashram Schools and tree plantation)

6.1.2 What is the role of top management, principal and faculty in design and implementation of its quality policy and plans? Institution's Quality Policy:

The Institute has formed various committees and responsibility is given to the members. These committees are supported by the top management, to promote academic leadership.

Sr. No.	Name of the Committees	Chairman	Name of Member Secretary
1.	Governing Council	Shri.Bebilalji K. Sancheti	Prin. Dr. M.D. Kokate
2.	Local Managing Committee	ShriBebilalji K. Sancheti	Prin. Dr. M.D. Kokate
3.	Anti-Ragging Committee	Prin. Dr. M.D Kokate	Mr. M.M.Jadhav
4.	Anti-Ragging Squad	Prof. Rathore M.M.	Prof. Agrawal R.K.
5.	Women's Grievance Cell	Prof. Mrs. K.M. Sanghavi	Dr. M. D. Kokate
6.	Grievance Committee	Dr. M. D. Kokate	Mr. S.Y. Burkule
7.	Reservation Committee	Dr. M. D. Kokate	Prof. S.B.Ambhore
8.	Library Committee	Prof. M.M. Rathore	Mr. M. B. Kedar
9.	Departmental Advisory Board	Heads of Department	
10.	Industry Institute Interaction Cell		
11.	Internal Quality Assurance Committee		
12	Cultural Committee		
13.	Equipment ,Computer Furniture, Maintenance, Purchasing Committee		
14.	Building/Infrastructure & Maintenance Committee		
15.	Student Council	Dr. M.D Kokate	
16.	Training and Placement Cell	Dr. M.D Kokate	Prof. P.A. Kapse

College groom leadership at various levels:

The Principal is appointed through an interview conducted by Prabhandh Samiittee as laid down by the Trust board. He is normally a member of the institutional faculty though in the absence of a suitable candidate, an outsider may be appointed to the post. The departmental heads are normally appointed on the basis of institutional seniority of the members of the department.

The Members of the trust board and *Prabhand Samittee* play an important leadership role in the activities of the institution. Each Member is an experienced and dedicated towards academics, who has taken an oath of giving 20 years of their life to the service of the Society. Whether institutional office bearers or not, they are all closely associated with the decision making at the institutional level. They are identified from among the existing faculty by the top management on the basis of their reputation as teachers and academics.

All head of the department and senior faculty members are also involved in Teaching and non-teaching staff appointment and interview process. Prabhand Samitte, Principal and faculty focus on institutional objectives as follows:

➢ Top management directs the Principal, focusing on vision and mission of the institution.
➢ Principal actively follows guidelines of *Prabhand Samittee* and provides effective administration for planning and implementation of academic, curricular and extra-curricular activities with the help of faculty.
➢ Principal, Head of Departments come together to form different committees to provide decentralized administration‖ to achieve institution's objectives.

6.1.3 What is the involvement of the leadership in ensuring: the policy statements and action plans for fulfillment of the stated mission?

The College coordinators (i.e. members of prabhand samittee) provide all resources in the beginning of every semester like consumables, stationary, major and minor equipment, practical kits and administrative accessories for smooth conduction of all academic related activities to fulfill quality objectives.

The policy statements and action plans for fulfillment of the stated mission

Throughout semester following activities executed simultaneously learning and teaching process.

➢ Interaction of Principal with students in classroom or in likely places of students.

➢ Weekly students meetings with their mentor.

- Results of In-Semester exam and End-Semester Exams

- Teacher feedback taken from students

- Parents feedback

- Yearly Alumni's feedback

- Feedback of Canteen, Hostel, Gym from students

- Sending attendance of students to parents through SMS

Formulation of action plans for all operations and incorporation of the same into the institutional strategic plan

The institution follow establishment department related planning, Financial planning and Academic planning.

Establishment department planning: Collect requirement of vacancy of various designations of every department. Assert News about it or department can call suitable candidates for interview and fulfill the deficiency within department.

Financial Planning: Yearly budget prepared per department which includes purchasing of minor or major instruments, experimental kits or setups, system level or application level software in reference to change in syllabus.

Academic Planning: Semester wise academic calendar prepared which includes all curricular, co-curricular, extracurricular activities by following University academic calendar.

Interaction with stakeholders

- The institute frequently takes inputs from its stakeholders specifically students, alumni, industry and parents.

- Alumni meets are organized alternate year to have discussion between teaching staff and alumni students. Such meet will provide platform for conduction of Expert Talks for current students and their placements.

- Parents meet organized to have dialogues between teaching staff and parents help to understand queries regarding our students. It also gives inputs about the functioning of the Institutes processes.

- We invite industry experts to conduct Expert talk related to their domain. It helps to know real time processes and technology within their Industry. Students also get known about requirements of industry. These talks bridge the gap between industry and academics.

- The social programs executed such as Create Awareness of Computer and Internet for "Anganwadi Sevika's within Chandwad Town", Distribution of Blankets to poor people in society nearby chandwad under Student association of computer and CSI Society, Awareness of Cashlees Society and Digitization amongst Tribal schools (i.e. Aadiwasi Ashram Schools) students and Tribal area peoples. In conjunction with above mentioned societal work we frequently execute NSS Camps, blood donation camp, Tree plantation. Our one work is appreciated by nearby society when there is Drought in Maharashtra. Because of our staff and students contribution we solved Rajedarwadi Dam's Water issue.

The various interactions maintained by the institute with all stakeholders is summarized in the following table:

S. No.	Name of the stakeholder	Interaction
1	Management	Formal (GB, Prabandh Samiti, IQAC &LMC meetings) & informal interactions for consultation and feedback
2	Parents	Parent-Teacher Meetings, Orientation Program
3	Students	Representation in culture committee, student council, Class Teacher/guardian meetings , informal interactions of Principal , Dean Academics, Heads & Faculty
4	Affiliating University	Need based interactions, LIC Committee visits to institute, through representation in different committees.
5	Alumni	Alumni meets, representation in EDC and placement interactions
6	Industry	Placement interactions, Annual HR meet, DC, through experts identified for guest lectures
7	Government/ Statutory bodies	DTE visit for Approval compliance, LIC committee visits for affiliation
8	Other regulatory bodies	
9	Community	Through extension activities like NSS, SWO, EDC Cell activities, Outreach programs of Admission

Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders

➢ Analysis of Students feedback about teaching staff analyzed and necessary action taken if needed.

➢ Analysis of parents feedback is been done and necessary actions taken if needed.

➢ Cross Department dead stock verification done yearly.

➢ Cross Department documentation verification done semester wise.

Reinforcing the culture of excellence

➢ To endeavor for excellence faculty are motivated for participation in workshops, Short Term Training Programs in various institutes, NITs and IITs.

➢ Institutes Impetus Magazine appreciated by "The Savitribai Phule Pune University" thrice.

➢ Lady Engineers Award by IEI (three times)

➢ Promising Engineers Awards from institution of Engineers (two)

➢ Engineering Achievement Award from institution of Engineers(03)

➢ Outstanding Engineering Lifetime Achievement Award by Institution of Engineers(01)

➢ Awards from Computer Society of India (One)

➢ University Topper-Civil Engineering.

➢ Organized 1st, 2nd, 3rd, 4th and 5th International Conference on Recent Trends in Engineering and Technology in collaboration with Elsevier, IJCA, McGraw Hill, IJECSCSE publishers.

Champion organizational change

Innovative ideas implemented

➢ In addition to teaching staff involved in many administrative duties like discipline committee, Competitive exam cell committee etc.

- Two hours per week dedicatedly utilized for Student-Mentor Activities per department. Eight different activities framed by Mentor Coordinator those should be performed within these two hours within one Academic Year.

- Complete Campus Automation with ERP software for paperless work. ERP software started its functioning from January 2017.

- Involvement of faculty and students in social awareness Activities.

- Effective use of Projector and NPTEL video lectures whenever needed.

- Recycling of jobs in workshop.

- Usage of one side blank pages for printing.

Additional credentials to the college

- One Patent filed

- Institute sponsored research lab in Computer Engineering department specifically for Internet of Things (IoT) related work.

- Companies have signed Memorandum of Understanding (MoU). These MoUs are the tie-ups between training centers / industries providing training, sponsorship to project, workshop, seminar, expert lecture.

6.1.4 What are the procedures adopted by the institution to monitor and evaluate policies and plans of the institution for effective implementation and improvement from time to time?

The human resources with different committees play key role in monitoring and evaluation of policies and plans of the institution for effective implementation and improvement. The examples are:

- Institute Coordinators (Two Members from Prabhand Sammittee)

- Principal (Head of the Institution),

- Heads of all Departments

- Student Counseling Committee

- Student Grievance Cell

- Women Grievance Cell

- Anti-ragging Committee

- Sports activities committee

- Research and Development Committee

- Training and Placement Cell

- Sports Committee

- Cultural Committee.

- IQAC

6.1.5 Give details of the academic leadership provided to the faculty by the top management?

Academic freedom protracted to the Head of the institute is responsible for enhancing the quality at every level of hierarchy. The Institute coordinators (i.e. two members of Prabhand Sammittee) do not compromising the academic activities and environment for the betterment of student. The management motivates the faculty to conduct co-curricular activities like seminars, workshop, field tours, various projects, updating laboratories etc. Teaching is a noble job. The teacher is supposed to possess all noble qualities/value system. By inculcating social and ethical value in one self, the teacher, can be a role model to the students.

To foster his, the Top Management has distributed the mentoring work to entire faculty. Top Management assigns different faculty with different responsibilities in various co-curricular and extracurricular activities every year.

6.1.6 How does the college groom leadership at various levels?

The Principal is appointed through an interview conducted by a Prabhandh Samiittee as laid down by the Trust board. He is normally a member of the institutional faculty though in the absence of a suitable candidate, an outsider may be appointed to the post. The departmental heads are normally appointed on the basis of institutional seniority of the members of the department.

The Members of the trust board and Prabhand samittee play an important leadership role in the activities of the institution. Each Member is an experienced and dedicated towards academics, who has taken an oath of giving 20 years of their life to the service of the Society. Whether

institutional office bearers or not, they are all closely associated with the decision making at the institutional level. They are identified from among the existing faculty by the top management on the basis of their reputation as teachers and academics. All head of the department and senior faculty members are also involved in Teaching and non-teaching staff appointment and interview process.

6.1.7 How does the college delegate authority and provide operational autonomy to the departments/units of the institution and work towards decentralized Governance system?

The management recognizes the need for decentralization for the growth of the institute and accords autonomy commensurate with the level of management. Deans and heads are appointed who are given autonomy for efficient governance.

The roles and responsibilities of administrators / decision makers for various assigned jobs listed below clearly depict the delegation of authority, providing operational autonomy leading to a decentralized governance system.

➢ Principal

To implement and monitor the education system to cater to the institute's vision and mission.

➢ Dean Academics

Is responsible for academic development of the institute and monitors progress of various teaching/learning processes.

➢ R & D Coordinator

Monitors Research and Development activities in the institute

➢ NAAC / NBA Coordinator

Is the senior faculty responsible for NBA/NAAC activities and is responsible forMonitoring academics, day to day academic activities and assuring quality in teaching and learning process.

➢ Discipline Coordinator:

Is responsible for supervision and management of all administrative and operational functions.

➢ Dean Planning and Infra:

To develop a strategic plan for the growth and image of the institute.

➢ Student Grievances Cell

Is responsible for students grievances and redressal system

➢ Vice President Student Activities

To initiate and monitor various student activities

➢ Head of the department

Responsible for the academic and administrative functions of the department. In addition, Registrar, Accounts Officer, Librarian, Workshop Superintendent take care of office related activities, finance related issues, library resources and workshop related activities. Other support functions are handled by the Admission-in-charge, NBA Coordinator, NAAC Coordinator, College Examination Officer, Industry Institute Interaction Cell Coordinator, Academic & Research Coordinator (BCUD), NSS coordinator, Student Welfare Officer.

At the department level:

➢ Each program has Academic Coordinator and E & TC Engineering and MBA has PG coordinators.

➢ Preparation of academic calendar based on time frame set by the University for planning and organizing of activities is done by Time Table co-ordinator.

➢ Each course has a course co-ordinator who, in consultation with the faculty teaching the subject, sets course objectives, prepares the teaching plan for the semester, conducts meetings with faculty regularly to monitor and review course completion and attainment of course outcomes and submits a report of the same to HOD

➢ Class teachers/mentor are designated for all classes/batches

6.1.8 Does the college promote a culture of participative management? If "yes", indicate the levels of participative management.

Yes, Action plan is formulated by Principal and Heads under the direction of the top management in Management and HOD meetings, taking into consideration the inputs from all the stakeholders. These plans are periodically reviewed and effectively implemented through participation of faculty, staff and students.

There are various committees constituted to manage different institutional activities which require participation of faculty.

List of committees are as follows:

Sr. No.	Name of the Committees
1.	Governing Council
2.	Local Managing Committee
3.	Anti-Ragging Committee
4.	Anti-Ragging Squad
5.	Women's Grievance Cell
6.	NSS Advisory Committee
7.	Reservation Committee
8.	Library Advisory Committee
9.	Examination Committee
10.	Research Committee
11.	Industry Institute Interaction Cell
12	Internal Quality Assurance Committee
13	Cultural Committee
14.	Training and Placement Cell
15.	Student Grievance Redressal Cell
16.	Student Council

6.2 Strategy Development and Deployment

6.2.1 Does the Institution have a formally stated quality policy? How is it developed, driven, deployed and reviewed?

Yes, our institution has formally stated Quality Policy.

Quality Policy

Our Quality Policy empowers the learner and educator for continuous improvement in diverse area of education competence by imparting knowledge exchange approach through the means of innovation , updation of technology advancement and industry interaction for academic excellence.

Quality Objectives

1. To initiate continuous improvement by fostering technical competency for enhancing student and faculty.

2. To collaborate institute with industry for learning modern practices and application through global market exposure.

3. To create an atmosphere of research attitude among faculty and students for enrichment of society and individual.

4. To deploy holistic culture with spiritual and moral values to develop humanistic and professionalism quality.

6.2.2 Does the Institute have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.

The institute has a perspective plan developed for its academic and administrative growth as detailed below:

➢ Forging a communication between the SNJB students and the society to create an awareness of the problems faced by the rural population
➢ Solving the problems at different levels through: a) social service b) generation of awareness among the populace by way of education of adults and students c) engineering skills/knowledge.
➢ Expand research centers to Computer Engineering and Information Technology.
➢ Establish Centers of Excellence in various technology domains with industry support
➢ Tie-Ups and Exchange programs with international Universities and industries
➢ Having more number of faculty PhDs
➢ Increasing copyrights and patents
➢ Promote extensive use of technology in all academic and administrative processes. This has already been implemented in a large number of activities
➢ Deployment of solar powered electricity supply to reduce the dependence on mains grid. As of now it is used to supply power requirements of a laboratory. (Add technical Details KVA rating etc.)
➢ Awareness campaigns for zero waste campus model, e-waste management, energy audits, safety audits, addressing gender issues and aligning our activities with social needs
➢ To develop disaster management cell.

6.2.3 Describe the internal organizational structure and decision making processes.

The trust 'Shree Neminath Jain Brahmacharyashram' Jain Gurukul established in 1928 is the Top Management body. SNJB KBJ COE Governing Council consists of 11 members as per the AICTE guidelines and it guides the trust in planning institute policies. There are four governance committees formed by the trust namely. Building Committee, Equipment Committee, Finance Committee and Staff Committee. These committees are the top decision making bodies in the respective field.
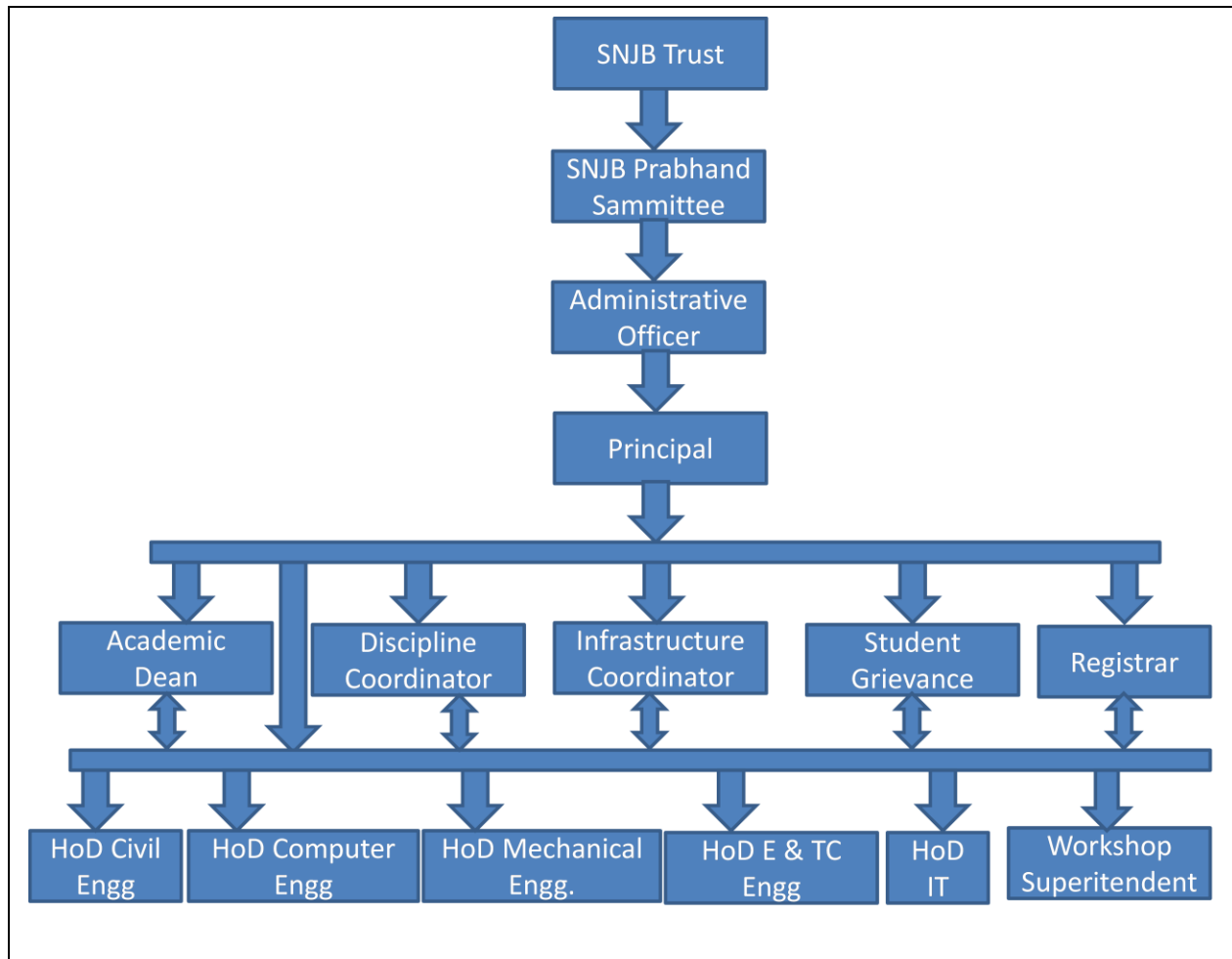
6.2.4 Give a broad description of the quality improvements strategies of the institution for each of the following.

Establishment Section manages following

➢ Transparent staff recruitment policy as per UGC/AICTE norms.

➢ Faculty encouragement for higher studies.

➢ Motivate staff to participate in FDP / workshops / training / conferences

➢ Staff appraisal process

Teaching and Learning

➢ LTE-JIO (4G) Based Wi-Fi Campus

➢ Provision of e-learning resources in Central Library.

- Classrooms with ICT facility.

- Facility of e-classrooms in each department

- Facility of seminar hall in

- Organization of remedial classes.

- Well Organized course files and lab manuals for all courses.

- Student feed-back on teachers and necessary follow-up.

- Allow faculty to participate in various FDPbefore commencement of each academic year.

- Continuously strengthening and updating of the laboratoryequipment, software and the library resources.

- Language lab equipped with Lingua phonic facility.

- Science Direct based e-journals available throughout Institute and hard copy journals are available in library.

Societal Engagement

- It is proposed that it would be setup at panhale, a village that has been adopted by our institute.

- 2015-2016's Drought in Maharashtra Institute taken initiative and Removed "3000 Tractor Soil" from Rajdharwadi's Village and develop one small Dam to provide water to nearby 12 villages for agriculture purpose and drinking water" with the help of students and staff.

- "Cashless India Vision" propagated to peoples of the nearby villages through students.

- The social programs executed such as Create Awareness of Computer and Internet for "Anganwadi Sevika's within Chandwad Town"

- Distribution of Blankets to poor people in society nearby chandwad under Student association of computer and CSI Society

- Awareness of Cashless Society and Digitization amongst Tribal schools (i.e. Aadiwasi Ashram Schools) students and Tribal area peoples.

- Execution of NSS Camps, blood donation camp, Tree plantation. Our one work is appreciated by nearby society when there is Drought in Maharashtra. Because of our staff and students contribution we solved Rajedarwadi Dam's Water issue.

Research and Development

> - Allocation of budget for in house Research & Development

> - Incentive given for publications.

> - Financial assistance given to students innovative projects and models.

Research and Development

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> - Financial assistance given to students innovative projects and models.

Industry interactions

> - MoUs with different industries for studenttraining, sponsored project under industry institute interactions cell.

> - Expert talks delivered by Industry peoples to students.

6.2.5 How does the Head of the institution ensure that adequate information (from feedback and personal contacts etc.) is available for the top management and the stakeholders, to review the activities of the institution?

New proposals/improvement proposals and difficulties/problems may generate at any level of the organization structure. It is presented immediately to upper level for decision. If the proposal falls within the boundaries of autonomy/ authority provided to that level, the decision is taken at that level. Else, it is sent to the next level and so on.

There are four deans namely Discipline coordinator, Dean Academic, Dean Infra, Dean Student Grievance & Registrar, HOD's Depending on the nature/ category of the proposal, the particular dean discusses the issue with the Principal. Final decision is taken by the Principal after necessary discussion with the top management.

In decisions about administration and those involving non-teaching staff, the registrar plays a major role along with the Principal. All the appropriate contact details of the authorities, coordinators is published on institute website, in information brochure, in institutes magazine and in monthly e-news bulletin of all departments.

6.2.6 How does the management encourage and support involvement of the staff in improving the effectiveness and efficiency of the institutional processes?

The staff is intricate in preparation and implementation of all processes within Institute. To encourage the staff for this,

➢ Management sponsors staff for STTPs, conferences, workshop and orientation programs.

➢ Special leaves provided for higher studies.

➢ Management appreciates the staff for their achievements in academic activities.

➢ Management conducts meeting with Head of the department and take input about enrichment of the overall system.

➢ Management conducts meeting with department staff after Every Semesters result.

➢ Management involves the staff members in various activities and decision.

6.2.7 Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.

6.2.8 Does the affiliating university make a provision for according the status of autonomy to an affiliated institution? If "yes", what are the efforts made by the institution in obtaining autonomy?

Yes. Affiliated University can extend the academic autonomy to the Institute, if institute has permanent affiliation. Necessary steps towards acquiring the autonomy have been initiated.

6.2.9 How does the Institution ensure that grievances / complaints are promptly addressed to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder relationship?

In order to ensure that grievances/complaints are promptly attended to and resolved effectively, the institute has a grievance redressal mechanism in place. Majority of the grievances are addressed through informal interactions (Parent-Teacher Meetings, Interactions of Principal/Head with staff and students etc.)

Central grievance redressal committee takes care of major grievances, the Ladies Grievance Redressal committee addresses ladies related complaints and related issues, if any, and the issue

of hostel students is considered by the hostel Committee. Suggestion boxes are available for students to give their suggestions/complaints. Canteen Committee addresses issues related to food provided in canteen. Preventive measures by way of creating awareness amongst students and staff help in reducing the grievances.

The various Grievance Redressal Committees established in the institute are given below:

1. Central Grievance Redressal Committee

2. Ladies Grievance Redressal Committee

3. Reservation Grievance Committee

4. Hostel Committee

5. Canteen Committee

6.2.10 During the last four years, had there been any instances of court cases filed by and against the institute? Provide details on the issues and decisions of the courts on these?

No. : There is no court case filed during last four years.

6.2.11 Does the Institution has a mechanism for analyzing student feedback on institutional performance? If "yes", what was the outcome and response of the institution to such an effort?

Yes, Institute has designed several forms to collect feedback from various stakeholders such as Feedback of Alumni, Feedback of Employer, Feedback of Parents, Feedback of Students, Feedback of Hostel Students Feedback of Library, Feedback of Examiner, Feedback of Project Examiner, Feedback of Hostel Mess, and Feedback of Canteen. In conjunction with all above mentioned feedback we also collect and analyze Student exit survey from outgoing batch.

6.3 Faculty Empowerment strategies

6.3.1 What are the efforts made by the institution to enhance the professional development of its teaching and non-teaching staff?

Institute has taken following effort to enhance the professional development of its teaching and non-teaching staff

- The institute provides on-duty leave, for faculty to attend STTP, workshops and conferences.

- Deputing faculty for higher studies for PG / Ph.D. research to centers of higher learning and excellence.

- Encourage faculty to have membership of professional societies.

- The institute encourages non-teaching staff for higher education.

6.3.2 What are the strategies adopted by the institution for faculty empowerment through training, retraining and motivating the employee for the roles and responsibilities they perform?

- The Institute deputes the faculty for training FDP and STTP organized by other organizations.

- Institute invites experts from industry and academics to interact with staff to create awareness about recent trends.

- Workshops conducted year wise

2013-14	2014-15	2015-16	Total
8	5	22	35

- Guest Lecture & Seminars

2013-14	2014-15	2015-16	Total
11	20	24	55

6.3.3 Provide details on the performance appraisal system of the staff to evaluate and ensure that information on multiple activities is appropriately captured and considered for better appraisal.

The performance appraisal system consists of self-appraisal and appraisal by reviewing officer i.e HOD/Immediate Head

1. Performance appraisal system of the faculty:

Annual self-assessment for the performance based appraisal system is adopted as per the UGC notification 30th June2010 approved by Govt. Of Maharashtra state vides GR dated 15th Feb 2011. Hence it is ensured that information on multiple activities is appropriately captured. The information includes-

Part A: General information and academic background, seminar, confirence / courses/STTP/SBP attended during the year.

Part B: Academic performance information - Teaching, learning and evaluation related activities, Co-curricular, extension, professional, development related activities. Research, publication and academic contributions

Part C: Other relevant information

2. Performance appraisal system of the non-teaching staff:

Annual assessment for the performance based appraisal system is adopted as per guidelines by Government of Maharashtra. Hence it is ensured that information on multiple activities is appropriately captured.

The information includes-

Part A (Self-appraisal): General information and academic background, courses/training programs attended/ notable achievements during the year,

Part B (Appraisal by reviewing officer(s)): Performance in Technical work and administration related activities, Co-curricular, extension, professional, development related activities, academic contributions, general conduct and qualities, aptitude

6.3.4 What is the outcome of the review of the performance appraisal records by the management and major decisions taken? How are they communicated to the appropriate stakeholder?

The review of the performance appraisal reports by the management and the major decisions taken. The management reviews the performance appraisal for suitable suggestions and remedial actions like regularizing the staff after probation period, deciding the regular increments and deciding promotions.

6.3.5 What are the welfare schemes available for teaching and non-teaching staff? What percentage of staff have availed the benefit of such scheme on the last four years?

Following welfare schemes are available for teaching and non-teaching staff associated with the Institute.

➢ Staff members of the Institute can avail the loans from Karmaveer Keshavlalji Harakchandji Abad Employs Co-op credit Society Ltd.
➢ GIS (Group Insurance Scheme).
➢ Extended maternity leaves and permission to leave early (2Hrs) for ladies staff members whose children are below one year is given.
➢ Uniforms are given to Class IV employees every year.
➢ Apron, footwear and uniforms are provided to workshop staff every year.
➢ Need based Training Programmes are arranged by the Institute for the faculty.
➢ Faculty members are permitted to attend Training Programmes conducted at different institutions.

Staff availing benefit of such schemes

Facility Available	Total Staff	Group Insurance Scheme	Society Loan	Permission for Relaxation in Timings	Permission for Higher Education
2012-13	169	147			37
2013-14	171	167			16
2014-15	187	79			11
2015-16	203	100			17
2016-17	211	114			18

➢ Advance payment and loan to staff.

➢ Tuition fees collected in (equal monthly installments (EMI) for wards of the staff.

➢ Immediate medical aid to accident affected staff in SNJBs medical college.

➢ First aid unit in every department/ building.

Bajaj Allianz Personal Accident Insurance (Group Insurance Scheme)

Academic Year	No. of Staff Members	Staff members availing Bajaj Allianz Group Insurance	% of staff members

2012-13	169	147	86.98
2013-14	171	167	97.66
2014-15	187	79	42.25
2015-16	203	100	49.26
2016-17	211	114	54.03

- **Provision for EPF** is made for regular employees.

- **Group Gratuity Scheme** is available as per Government norms. ……. faculties have availed it over the last 4 years.

- **Fee concession** is provided to children of faculty & staff studying at VI and to needy students. Details of those having availed the same is shown in the table below:

	Total no. of	Total amount
Staff wards		
2011-12	11	439,689
2012-13	8	282,553
2013-14	8	257,134
2014-15	8	287,356
2015-16	12	512,401
2016-17		

- **Sixth pay arrears** have been given to all eligible teaching & non- teaching staff.

- **Financial assistance** is provided to staff to pursue higher studies. Over the last 4 years, 14 of them have availed paid leave for the same.

- **Financial assistance is also provided to needy students and to toppers. Details are shown below.**

Year	Total no. of students	Total amount disbursed
Financial aid given to needy students		
2011-12	26	-
2012-13	37	68,192
2013-14	16	150,126
2014-15	11	365,395
2015-16	1	45,814
Topper students		
2011-12	65	1,374,435
2012-13	16	369,455

| 2013-14 | 54 | 360,000 |
| 2014-15 | 65 | 420,000 |

6.3.6 What are the measures taken by the institution for attracting and retaining eminent faculty?

The retention of proficient and experienced faculty is the main focal point of the institute. The eminent faculties are held with various responsibilities in administration, advisor body, guidance for policy making and acts as mentors too.

The research and add-on activities are highly extended with flexibility. Utmost observation and Care has been taken to justify the financial recognition of such faculty. The reasonable opportunity is given to such faculty who participates in planning and decision making process.

6.4 Financial Management and Resource Mobilization

6.4.1 What is the institutional mechanism to monitor effective and efficient use of available financial resources?

In the beginning of every academic year, budget is obtained from departments, library, sports and Infrastructural. Budget for the departments is prepared by concerned HODs, in consultation with the department laboratory in-charge faculty. Then it is sent to the Principal. The departmental budgets are discussed by the Principal at HoD's meeting and then sent to management for final consideration. Then it is put up to the Governing Council for final approval and local management is informed accordingly.

While preparing the institutional budget, at first, a provision is made for Staff Salaries and Allowances. Next, a provision is made for administrative and maintenance expenses such as electricity, water, telephone, postage etc. Then, while making provisions for the departments, priorities, needs and requirements of various committees and development / up-gradation of department is seen.

To meet every month's Human Resource and Administration Expenses, the Institute follows a practice to invest in Fixed Deposits that mature as per our requirement.

6.4.2 **What are the institutional mechanisms for internal and external audit? When was the last audit done and what are the major audit objections? Provide the details on compliance.**

To audit the daily routine transactions, internal audit is done by external agency appointed by management . Internal audit is done regularly. External audit is done by the Chartered Accountant. The last External Audit is done up to financial year ending 31-03-2016. Major objection in the external audit is that Physical Verification of all fixed assets should be done. For the compliance, currently, all the departments are instructed to undertake physical verification of equipment

External Audit	Last Audit	Details of Compliance
Auditor : Sabadra and Sabadra CA, Nashik	23/06/2016	No Suggestions received

6.4.3 **What are the major sources of institutional receipts/funding and how is the deficit managed? Provide audited income and expenditure statement of academic and administrative activities of the previous four years and the reserve fund/corpus available with Institutions, if any.**

Sr. No.	Particulars	2015-2016	2014-2015	2013-2014
1	Total Income (Rs)	11,30,84,483	10,00,89,958	9,66,95,965
2	Total Expenditure (Rs)	10,36,89,435	9,12,76,556	9,44,90,954
3	Balance Amount (Rs)	93,95,048	88,13,402	22,05,011

6.4.4 **Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any).**

Sr. No.	Particulars	2015-2016	2014-2015	2013-2014
Grants Income				
1	SPPU-BCUD	1,90,000	1,50,500	3,92,251
Expenditure				
1	SPPU-BCUD	1,90,000	1,50,500	3,92,251

6.5 Internal Quality Assurance System (IQAS)

6.5.1 Internal Quality Assurance Cell (IQAC)

a. Has the institution established an Internal Quality Assurance Cell (IQAC)? If 'yes', what is the institutional policy with regard to quality assurance and how has it contributed in institutionalizing the quality assurance processes?

Yes, the IQAC has been established by the Institute. Learning and teaching process is monitored by academic coordinator of each department. Each department needs to submit departmental academic calendar to IQAC then throughout semester IQAC keeps monitoring all activities. IQAC monitor work done by academic coordinators. Academic coordinator monitors Academic activities, Feedback from students to achieve maximum academic performance of the students.

Institute has following quality policy with its objectives

Our Quality Policy empowers the learner and educator for continuous improvement in diverse area of education competence by imparting knowledge exchange approach through the means of innovation, updation of technology advancement and industry interaction for academic excellence.

Quality Objectives

- ➤ To initiate continuous improvement by fostering technical competency for enhancing student and faculty.
- ➤ To collaborate institute with industry for learning modern practices and application through global market exposure.
- ➤ To create an atmosphere of research attitude among faculty and students for enrichment of society and individual.

➢ To deploy holistic culture with spiritual and moral values to develop humanistic and professionalism quality.

b. How many decisions of the IQAC have been approved by the management/authorities for implementation and how many of them were actually implemented?

Management has provided the favorable atmosphere to The Principal of the institute to cater to the quality needs for excellence. Almost all the decisions related to the quality and academics are approved. Few of them are highlighted below,

✓ IQAC published formats of work assigned to 21 various coordinators holding diverse responsibilities of academics and administrative on Institute NAAC Coordinators blog.

✓ Department heads prepare academic calendar of their respective department and submit it to IQAC.

✓ Start conducting remedial classes for backlog and failed students for result improvement and submit timetable to IQAC.

✓ Mentor scheme previously it is called as local guardian scheme introduced in 20/08/2016.

✓ Cross verification of the deadstock.

✓ Mentor scheme policies framed more effective by preparing Mentor-Mentee Manual on 13/12/2016.

c. Does the IQAC have external members on its committee? If so, mention any significant contribution made by them.

Sr. No.	Particular	Name of Committee Member	Significant Contribution
1	Local Society Member	Mr. Mahesh Gujarathi	Mr. Mahesh Gujarathi is local papers editor, he has published our institutes almost all events / activities / staff vacancy related news.
1.	Alumni	Mr. Jay Desai , Alok Industries , Vapi, Gujrath	We invited him to deliver expert talks on Industrial Automation. He open up the platform for our students to observe onsite Working in his

			Textile Industry i.e. Alok Industries Pvt. Ltd. , Vapi, Gujrath.
2.	Industrialist	Mr. Manish Kothari	He helped us to start CSI National Chapter in Computer Engineering Department.
3.	Industrialist	Mr. Santosh Mutha	He solved our Privacy related issues by guiding us in purchasing and installing of CCTV cameras in our Institution.

d. How do students and alumni contribute to the effective functioning of the IQAC?

Students feedback taken into consideration on priority basis. If any issues found disciplinary action taken by IQAC. IQAC uses suggestion box also to rectify valid issues. Alumni feedback taken by respective department, also Alumni visited Institute frequently to deliver expert talks or conduction of workshops.

e. How does the IQAC communicate and engage staff from different constituents of the institution?

Frequent meetings and circulars are the primary sources of the communication to the different constituents of the institute.

6.5.2 Does the institution have an integrated framework for Quality assurance of the academic and administrative activities? If „yes‟,give details on its operationalization.

Yes, Institution has integrated frame work for quality assurance in academic activities as well as administrative activities.
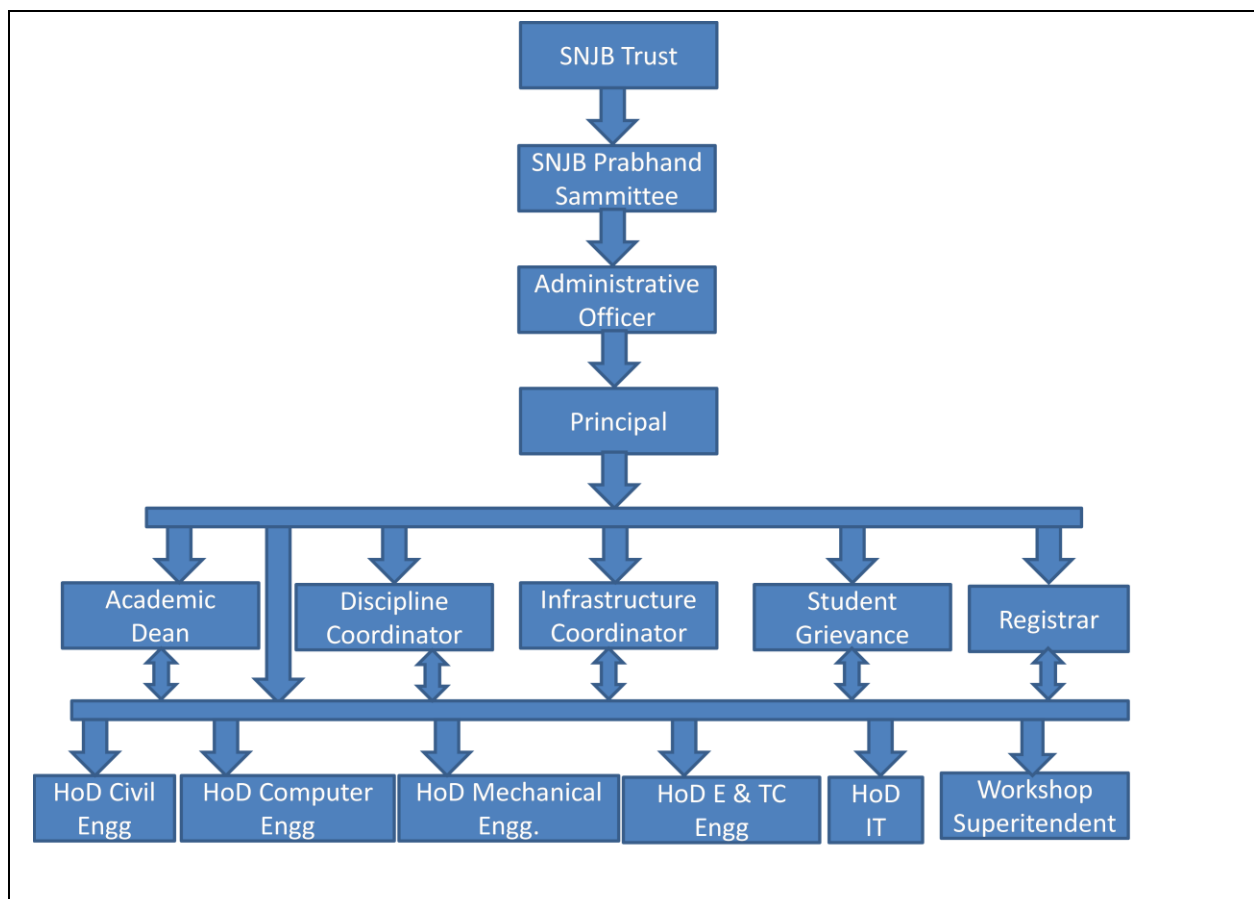
The administration at various levels ensures the quality in planning, implementation and monitoring without conciliating the quality factor in the academic practices.

6.5.3 Does the institution provide training to its staff for effective implementation of the Quality assurance procedures? If "yes", give details enumerating its impact.

Teaching as well as Non-Teaching staff is sponsored to get trained in orientation and refresher programs, summer/winter programs conducted by other reputed institutions/university Colleges. Teaching staff encouraged to participate in conferences and to apply for various funding projects of SSPU, AICTE.

Staff involve in various processes of International conference of our Institute. Staff involved in organization of International Conference execute various responsibilities like superchair, track chair, technical committee member, paper editor of www.easychair.org portal. Teaching staff write their own paper in organized conference.

6.5.4 Does the institution undertake Academic Audit or other external review of the academic provisions? If „yes", how are the outcomes used to improve the institutional activities?

Principal, Academic coordinator and Head of the dapartment are monitoring, analyzing and reviewing the practices and processes run at the institute frequently. The outcomes of the analyses and review are critically studied to come up with the concrete inferences for further strategy to be undertaken. Few processes are as follows

➢ Monthly syllabus completion report

➢ Monthly student attendance

➢ Monthly Test Exam Marks.

➢ Online / InSem Exam Marks and identify poor learners.

➢ End Semester Marks.

➢ Semester wise performance and comparison with other Colleges.

6.5.5 How is the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies/regulatory authorities?

The institution follows guidelines given by AICTE, DTE and SPPU. All the academic activities and processes are as per the instructions given by above authorities from time to time.

➢ The infrastructure & staff is as per the norms laid down by AICTE, DTE.

➢ Curriculum and its implementation, evaluation is as per the University guidelines.

➢ The admission to the program is governed by the directives given by DTE, Maharashtra state.

➢ The institute is monitored by SPPU & AICTE committees for compliance.

6.5.6 What institutional mechanisms are in place to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?

The Institute uses following processes:

➢ Institute and department level academic calendar prepared while referring SSPU's academic calendar.

➢ Choice based preferences are asked for next semester before the staff members proceed for vacation and load distributions is done by considering these choices.

➢ Subject file is prepared by every subject teacher prior to the starting of the semester which includes 18 different parameters.

➢ Subject teacher solve complete End Semester Exam Paper of his/her Previous Semesters subject.

- HoD's assigns the responsibilities to the faculties for the activities to be conducted throughout the semester.

- Frequent meeting of faculties is conducted by HoD to discuss the problems if any and to take updates of the conduction of academics.

The collective assessment of students is done by following ways.

- Phase I and Phase II Online examinations for FE and SE students

- Theory - Insemester , End Semester examinations for TE and BE students

- Oral /Practical / Project examinations for SE, TE and BE students.

As per schedule given by SPPU,

In addition to University examination

- Monthly Test conducted for students

- Annual Theory exam conducted for students

- Assignment given to students by respective subject teachers.

6.5.7 How does the institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders?

The vision-mission of the institute and quality policies of the institute are communicated to internals trough institute website www.snjb.org, prospectus of the institute, display of statements at different places like Principal office, department floors, classrooms, laboratories, Hostel, Library, etc.

Quality policy also communicated in Alumni meet, Parent Teacher meet and various Events organized by every department.

Criterion VII: Innovations and Best Practices

7.1 Environment Consciousness

The institute is conscious about environmental issues. Regular practices and activities have been adopted to create environmental awareness. The institute is very keen for making the campus eco-friendly by adopting certain measures and policies. All the academic buildings and other surrounding area in the campus are cleaned regularly by outsourcing agency. The institute has adopted energy conservation practices, tree plantation for making the campus clean, green and healthy.

The institute has adopted following strategies for environmental consciousness:

➢ Regular Campus Cleanliness, Polythene free and smoking free zone helps to make campus eco -friendly.
➢ The vegetable waste of hostel mess is used for composting near hostel.
➢ Rainwater Harvesting unit (4 nos. of recharge pits) is set up for college & hostel building.
➢ The CFL & tube lights with electronic chokes are in class room, laboratories etc.
➢ Use of Nonconventional Energy Sources: 07 nos. of solar heaters for hostels.
➢ Tree Plantation through ―Green SNJB Campus.
➢ Reduction in usage of papers by digitizing most of the records.
➢ Effective utilization of rough papers (one side printed) for printing.
➢ Students are motivated for eco- friendly practices like not to use title pages, butter papers and cover papers in journals / files / assignments.

7.1.1   Does the Institute conduct a Green Audit of its campus and facilities?

Yes. Green Audit is conducted by both Internal and External Agencies. The methodology and implementation of the green audit findings are recorded in a manual. Institution maintains a clean and green environment within the campus. The Institution ensures the green environment by establishing a separate maintenance department. The maintenance team takes care of the up-keeping of the environment and ensures to keep the surroundings clean. It maintains plantations by employing gardeners and the cleanliness has been maintained by employing sufficient number of sweepers. The maintenance staff members do periodic checks and maintain records for the same. The green audit of the campus and its facilities is a regular event in this Institution.

➢ The scenario of the college itself reflects the importance given to the eco-friendly campus. Some of the relevant activities to make campus eco-friendly are as follows:
➢ The college is natured with number of trees.
➢ The trees and lawns are maintained with water drips.
➢ Both boys and girls hostel in college campus are equipped with solar water heaters.

- Creating awareness among the young generation to protect and save the environment through NSS and Green SNJB Campus.
- Less usage of papers and noise free generator etc.

Green Audit Details:

Frequency of Audit	Item Checked	Parameter assessed
Daily	Waste	Properly cleaned and disposed or not?
Once in month	Water quality	TDS & pH

7.1.2 A) Energy conservation

- The workshop/ guest lectures are organized for create awareness about use of solar energy.
- Use of Non-conventional Energy sources: Solar water heaters for hostels.
- Both boys and girls hostel in college campus are equipped with 07 nos. of solar water heaters.
- Resistive based fan regulators are replaced by solid state devices based regulators which reduce losses in the electric power also electronic ballasts are used to control power.
- The energy efficient Compact Fluorescent Lamps(CFL) tube lights with electronic chokes are provided in classrooms, laboratories, toilets, store & in office.
- The faculty, staff and students take care of switching off lights, fans and other electrical devices to avoid wastage of energy when they are not in use. Single switch is used to switch off classroom, laboratory power supply for fans and light points.
- The workplaces are arranged to take advantage of natural light and ventilation from windows.
- Energy awareness campaigns have been carried out for the student, faculty and staff members.
- Placards, notice boards have been used for creating awareness about power saving and safety.
- Energy Efficiency

The institute intends to raise the standards of comfort and indoor air quality, beyond the traditional focus only on work-spaces, to include student hostels, residences and student facilities. In order to address this intent in an energy efficient manner, the comfort control standards have been differentiated into three levels according to the criticality of need. Greater control is afforded in the library and labs. The requirement of thermal control is progressively relaxed from teaching rooms, to staff residences & students' facilities & hostels.

A centralized district cooling system has been built to take advantage of diversity in demand and of the alternating diurnal cycles of demand in class rooms.

Orientation – Most of the buildings and habitable/working spaces have North-South (± 15 degrees) orientation, so as to maximize gains for natural light into habitable spaces.

Small Windows – With scientifically designed opening sizes so as to allow for glare

- Free lighting into the space most of the times. Areas with glazing are kept to the minimum required.
- Study of spaces, opening sizes, orientation and preferred lighting amount for all important spaces, to allow for maximum glare free lighting.

The roof is white china mosaic.

7.1.2 B) Use of renewable Energy

- Usage of renewable energy (solar, wind, biogas) awareness campaigns have been carried out for the people of (adopted by NSS Unit) Panhale village during NSS Special camp every year.
- The two numbers of research projects based on application of solar energy, one completed (by Prof. M.M.Rathore) and the other will be completed in February 2017(By Prof.R.C. Patil) using solar energy.
- The 07 nos. of solar water heaters have been provided in boys & girls hostels.

7.1.2 C) Water Harvesting

- The rainwater harvesting unit(6nos. of recharge pits) is constructed for college & hostel building. The total quantity of water harvested through these pits are 21,72,267 litres/year.
- The NSS volunteers have excavated in percolation tank for increase in recharge of ground water by percolation of rainwater.

7.1.2 D) Plantation

- The more than 2000 plants are planted in college campus under "Harit SNJB campus Abhiyan" and also in adopted village Panhale (By NSS Unit). The trees are maintained with water drips.
- The awareness is created by organizing rally every year during special camp of NSS at Panhale.
- NSS unit is also carrying out tree plantation as regular activity in campus and nearby villages during NSS winter camps.
- Faculty Staff and students are encouraged to plant trees inside and outside the campus on special occasions i.e. VAN Mahotsav.

7.1.2 E) Swachha Bharat Abhiyan

➢ The students & faculty along with NSS volunteers have been carried out Swachha Bharat Abhiyan every year in August & October in college campus to make college free from polythene and smoking free zone helps to make campus eco-friendly.

➢ The NSS volunteers have been carried out Swachha Bharat Abhiyan every year during special camp every year.

➢ The awareness is created for cleanliness by organizing rally during NSS Special camp every year.

7.1.2 F) Carbon Neutrality

About more than 2000 trees have planted in campus.

➢ The vehicle parking arrangements have been kept at sufficient distance from central campus of college which helps in keeping campus pollution free as much as possible.

➢ Minimal use of Air conditioners in Laboratory and cabins & adopted a practice to switch off air conditioners at least half an hour before leaving workplace.

➢ Dead leaves are not allowed to put on fire. It is handed over to the farmer for decomposition purpose.

➢ The most of staff members are doing vehicle sharing by four wheelers, two wheelers & use of common bus.

7.1.2 G) Hazardous waste management

➢ Everyday all the academic buildings and other surrounding area in the campus are cleaned by outsourcing agency and they separate out waste and dispose accordingly.

➢ In Chemistry laboratory very dilute solutions are used for First Year practical's, it does not create hazardous waste. We have policy of minimum use of hazardous chemicals in these laboratories.

7.1.2 H) e-waste management

➢ Out-dated and low-end e-components are being used for demonstration. e.g. CRO, Function Generator like these electronics equipment have been used as demonstration models in respective laboratories.

➢ The major e-waste such as out of use instruments / equipment, CRTs, Printers, Computers, Electronics gadgets, circuits, kits have been written off and then it is sold out to buyers by auctioning. The old computers were replaced by exchanging new computers.

➢ All the miscellaneous e-waste such as CDs, batteries, fluorescent bulbs, PCBs and electronic items are collected from every department and office, and delivered for safe disposal.

➢ Useful parts of electronic gadgets like resistors, capacitors, inductors, diodes, transistors, Thyristors etc have been removed from the gadgets for reuse purpose in practical /projects.

7.2 Innovations

7.2.1 Give the details of innovations introduced in last four years which have created a positive impact on the functioning of the college.

Following tables list the innovative process adapted by the college or department to achieve excellence in academics.

1. Gate Examination

Practice/Process Title	Number of Students Appearing for GATE Examination
Problem Identified	- Numbers are not encouraging - Students are not well prepared - They are also not well informed
Proposed Innovation	- Formation of **Competitive Examination Cell** (Give information about dates, application form, importance of the particular examination) - Arranging expert lecturers - Coverage of GATE syllabus as per the program - Online test portal for GATE
Outcome of innovative practice	- Increase in the number of appeared students - Increase in the score
Supporting Documents	- Department will keep the record of students appearing in GATE (year wise) and also their score - Notice, attendance report, photos & remuneration bill of expert talk - Solution of GATE questions as per the subjects - Related books every year

2. Annual Magazine

Practice/Process Title	Annual Magazine
Problem Identified	• Lack of Platform for expressing the thoughts and writing skill
Proposed Innovation	• Magazine publication every year based on certain themes • Sections: Interview, Hindi, English, Marathi and Technical • Separate section for Department achievement (Staff and students) • Toppers and Outgoing batch photos
Outcome of innovative practice	• Students got avenue to expressed their thoughts on different issues • Publication of staff and students achievement & photo gives sense of Proudness, attachment to the institute • Reach to large number of families • Got University level Prize
Supporting Documents	• Magazine Copy and related notices

3. ERP Software

Practice/Process Title	ERP Software
Problem Identified	• Manual Process • Multiple Entries
Proposed Innovation	• **Introduction of ERP Software**
Outcome of innovative practice	• Online data entry • Easy access • Elimination of repetitive work • Ease of record keeping • Information at a click

Supporting Documents	• ERP Software

4. Mentor Scheme

Practice/Process Title	Mentor Scheme
Problem Identified	• Unavailability of experience person in family to guide the candidates for building Professional Career • The candidates faces difficulties to solve their academic/administrative problems/issues
Proposed Innovation	• **Introduction of Mentor Scheme** • **Students meets their mentor to discuss their problems/issues** • **Various activities are arranged during the mentor slot every week.**
Outcome of innovative practice	• Due to intervention of faculty, some issues are quickly resolved. • Students gets guidance on different issues every week • This help to create the bonding between all stakeholders of the college
Supporting Documents	• Mentor Manual • Record for activity with every mentor

5. Students Research Group

Practice/Process Title	Students Research Group
Problem Identified	• Lack of awareness or platform for innovation among the students.
Proposed	• Group of students is created to identify the problem faced by

Innovation	the society/industry. • Students are then encouraged to provides the solution to the problem**.**
Outcome of innovative practice	• Participation at National, University level Project Exhibition Providing Solution to the problems
Supporting Documents	• Revenant records

6. Training & Placement (ETC Dept)

Practice/Process Title	**On Campus Training Program for Placement of Students**
Problem Identified	• Poor Placement of students immediately after graduation • Students are not Job ready
Proposed Innovation	• **Imparting the skill in association with industry** • **On Campus Training Program**
Outcome of innovative practice	• So far one batches (13 students) have undergone the skill training in association with different training institutes. • As a result of this, total 7 students were offered job on before the completion of graduation. • Cost of training is shared by the institute and students in defined ratio (20 to 25% by college)
Supporting Documents	• **MoU with Taact Automation, Nashik (2016), Teleman Wireless Technology Pvt. Ltd. , Thane (2017).** • **Record of placed students**

7.3 Best Practice

7.3.1 Best practices-1

1. Title of the Practice

Effectual Teaching learning system

2. Goal

1. To design cautious plan that serves a significant function in achieving the course outcome.

2. To establish activities and assessments that promote student learning.

3. Use of effective technology (audience response, real examples) for delivery of contents to meet student's expectations.

4. To guarantee the effective outcome in terms of academic result.

5. To inculcate research and innovation thinking among the students.

3. The Context

➢ Creating engineering manpower of worldwide standards is the main intention of Technical Institutions and needs effective contribution of every faculty for developing effective and diverse techniques for successful liberation of contents to the students.

➢ Teaching and learning strategies includes a variety of entire class, group and individual actions to accommodate diverse abilities, skills, learning rates and styles that permit each student to contribute and to attain a few degree of success.

➢ To attain the brilliance in teaching & learning processes, a regular monitoring, analysis and actions taken off for academics is must and requires productive documentations like availability of academic calendar based on university academic calendar, continuous assessment records, Course file, Personal file, Internal semester examination/Unit test papers and their marks, feedback reports, Monthly Attendance Register, Industry institute interaction/Industry internship records etc.

➢ The mentor system has been used to incessantly estimate the concert of faculty and students.

4. The Practice

- ➢ The college set up an internal quality audit cell (IQAC) for growth and application of quality standards for various academic activities related to TLP.

- ➢ For effectual teaching, the modern teaching aids used in the class rooms are desk and laptop computers, LCD projector, OHP etc. At the commencement of each semester, the faculty makes a comprehensive course file which consist of lesson plan, study material, notes, animated videos, NPTEL notes and videos, power point presentations, earlier year university question papers with answer, Multiple choice question (MCQ) bank etc., in accord with the college academic calendar.

- ➢ Faculty utilizes Internet, Wi-Fi, library and online journals to download technical data, lessons and study materials. Faculty attains the Faculty Development and Training Programs (FDP/FTP) meant for active and collaborative learning which helps them in updating the knowledge of course.

- ➢ As a part of mobile education and to bridge the knowledge gap between academics and industries the students are taken on industrial visits. Various industrial based training program were conducted for TE/BE students to make them globally competitive & employable.

- ➢ Wi-Fi site permits the student for independent learning.

- ➢ Activity based learning is achieved by providing platform to students through poster/paper presentations, project competitions etc. Apart from these, guest lecture/expert talks were organized to add affluent knowledge and illuminate their doubts on their subjects. These programmes were arranged through each departmental association.

- ➢ For improved results a regular monitoring of academic classes is done and includes effective completion of whole syllabus of each course by arranging the makeup classes. In addition to this, academically weak students are traced out and special doubt clearing lessons were arranged in order to cope with fellow students.

- ➢ For improved performance in online examinations including GATE, web based MCQ bank is provided to students. Also the practice sessions have been conducted through eGATE tutor.

- ➢ The training & placement unit conducts exceptional training courses like personality development, communication skill, group discussion, aptitude test etc. with the plan to build up the students to appear on-campus as well as off- campus interviews.

➢ Quality of teaching learning is monitored twice in a year by collecting feedback from students. Feedback from students concerning faculty is composed in a standard printed format and is scrutinize with respect to features such as promptness, attentiveness, skill to clear doubts, accessibility of teacher outside class duration etc.

➢ The institute has entrepreneurship development cell to develop the research potential in students. College provides several e-journals to enhance research and project work.

➢ The mentoring scheme strengthens the teacher – student relationship and provides the platform for solving their problems and support to achieve academic excellence.

5. Evidence of Success

➢ Improved academic performance.

The subsequent figure shows the academic improvement of students for every program in terms of increased in distinctions and first class.
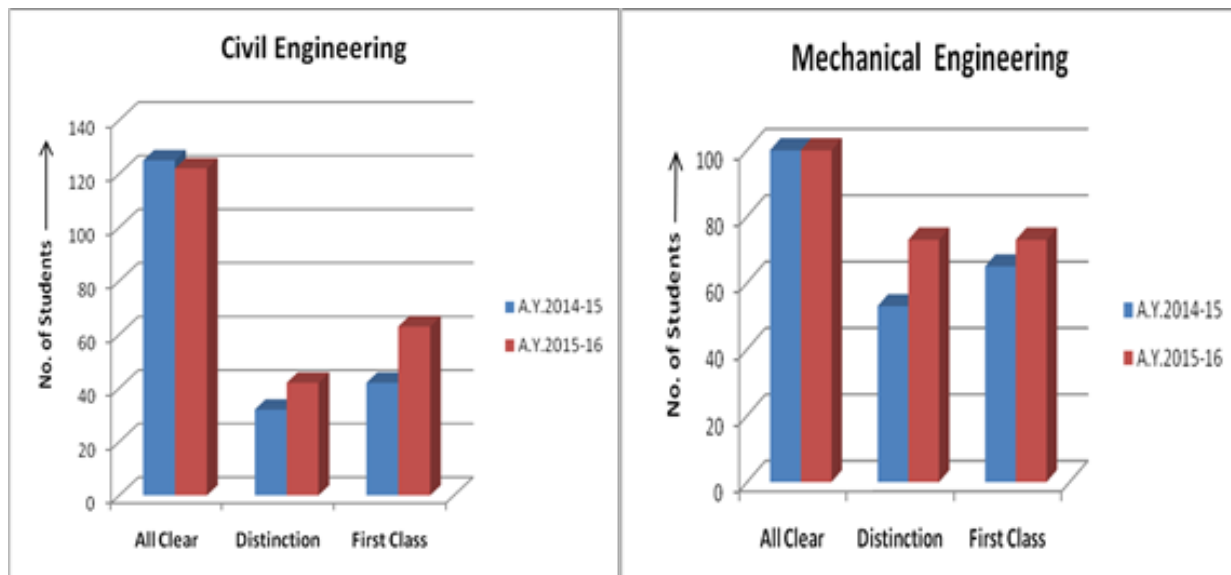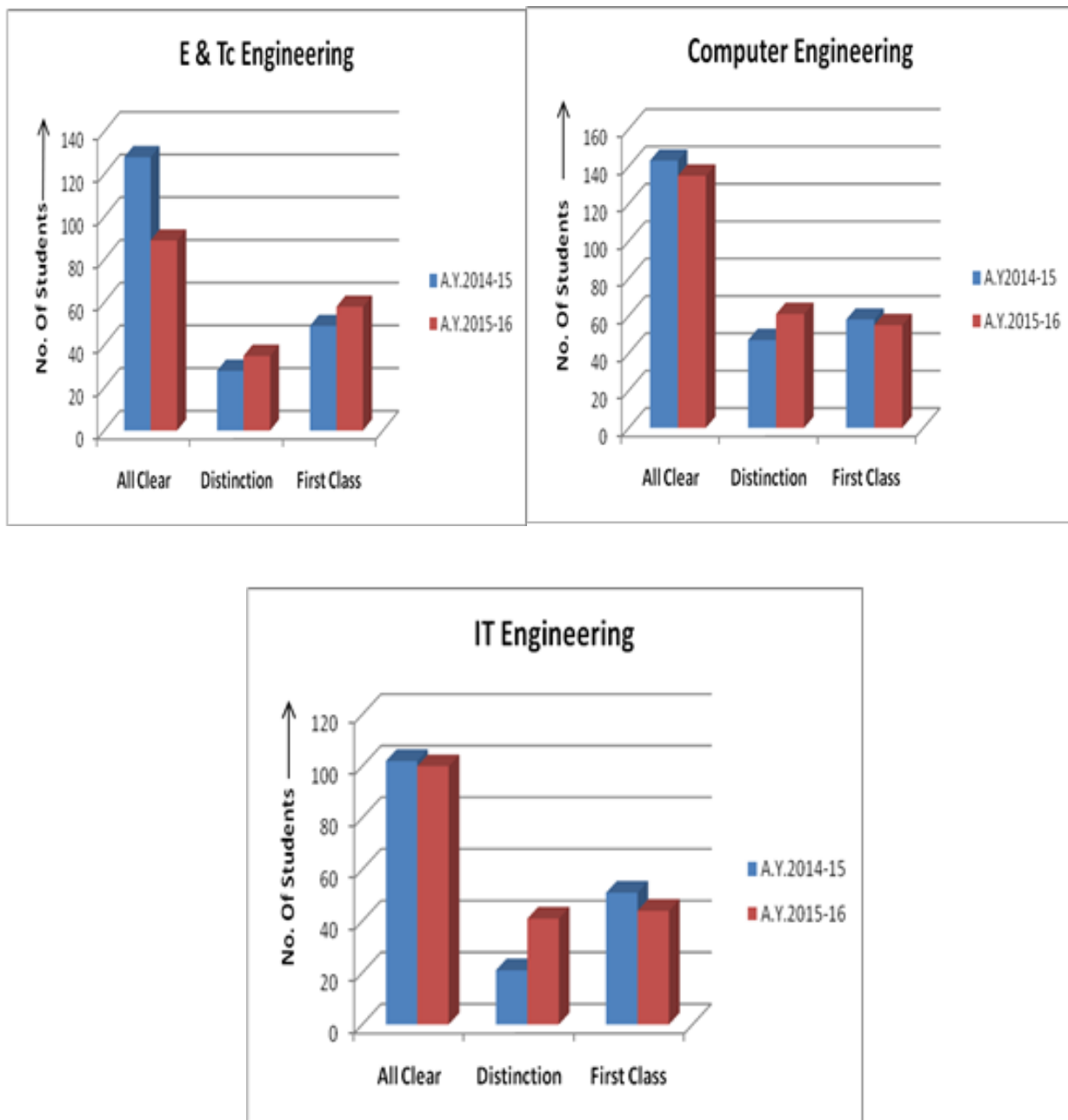
Fig. 1 Program wise Academic performance of Students

➢ Better performance at zonal/university and state level competitions.

The following chart indicates the improved participation of students in various activities like technical/project competitions, poster/paper presentation etc. The projects like smart onion system and have been selected at State level completions and gets a first prize at state level competition.

Academic Year	Project Participation	Award	Tech. Comp. Participation	Award	Paper/Poster Participation	Award
2014-2015	18	0	14	10	4	0
2015-2016	62	3	30	16	12	5
2016-2017						
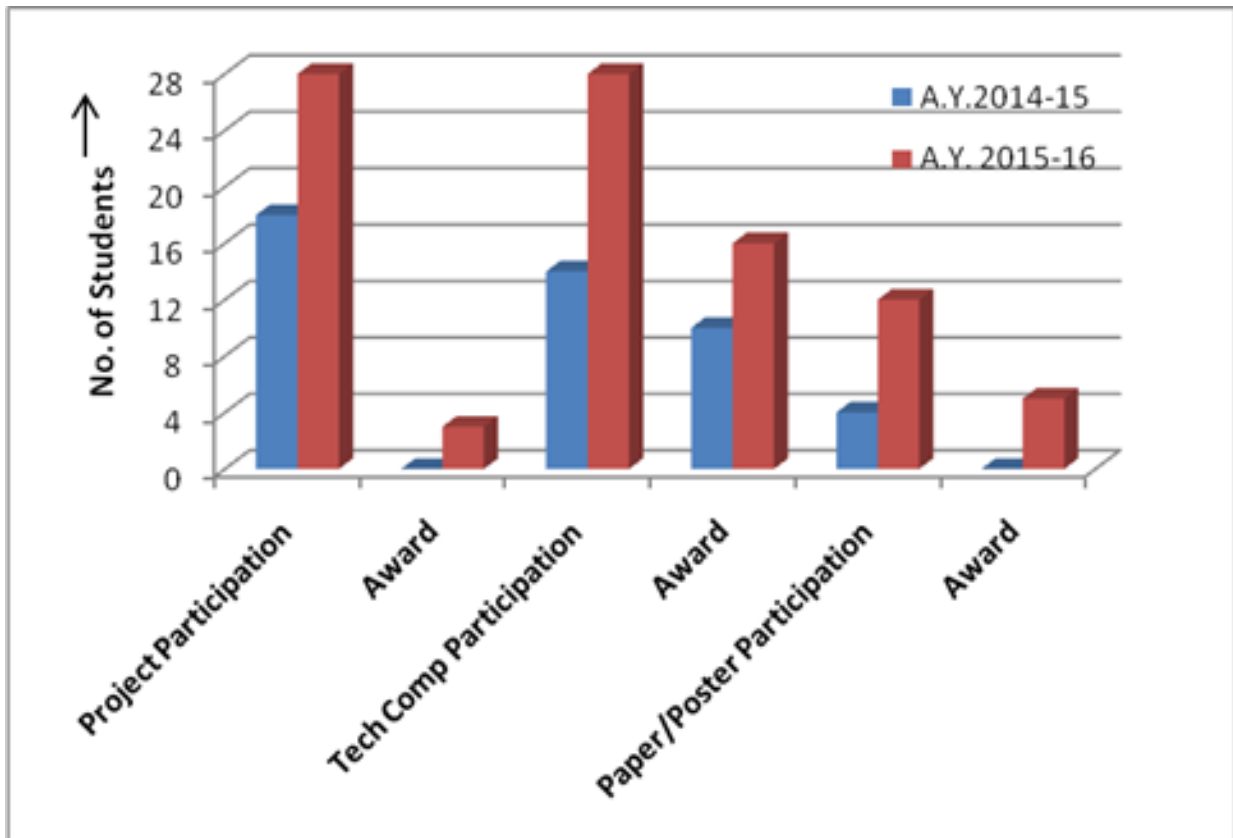
Fig 2. Improved Performance of Students at various Competitions

➢ Improved feedback from students pertaining to faculty has revealed the student's contentment owing to effectual teaching learning system.
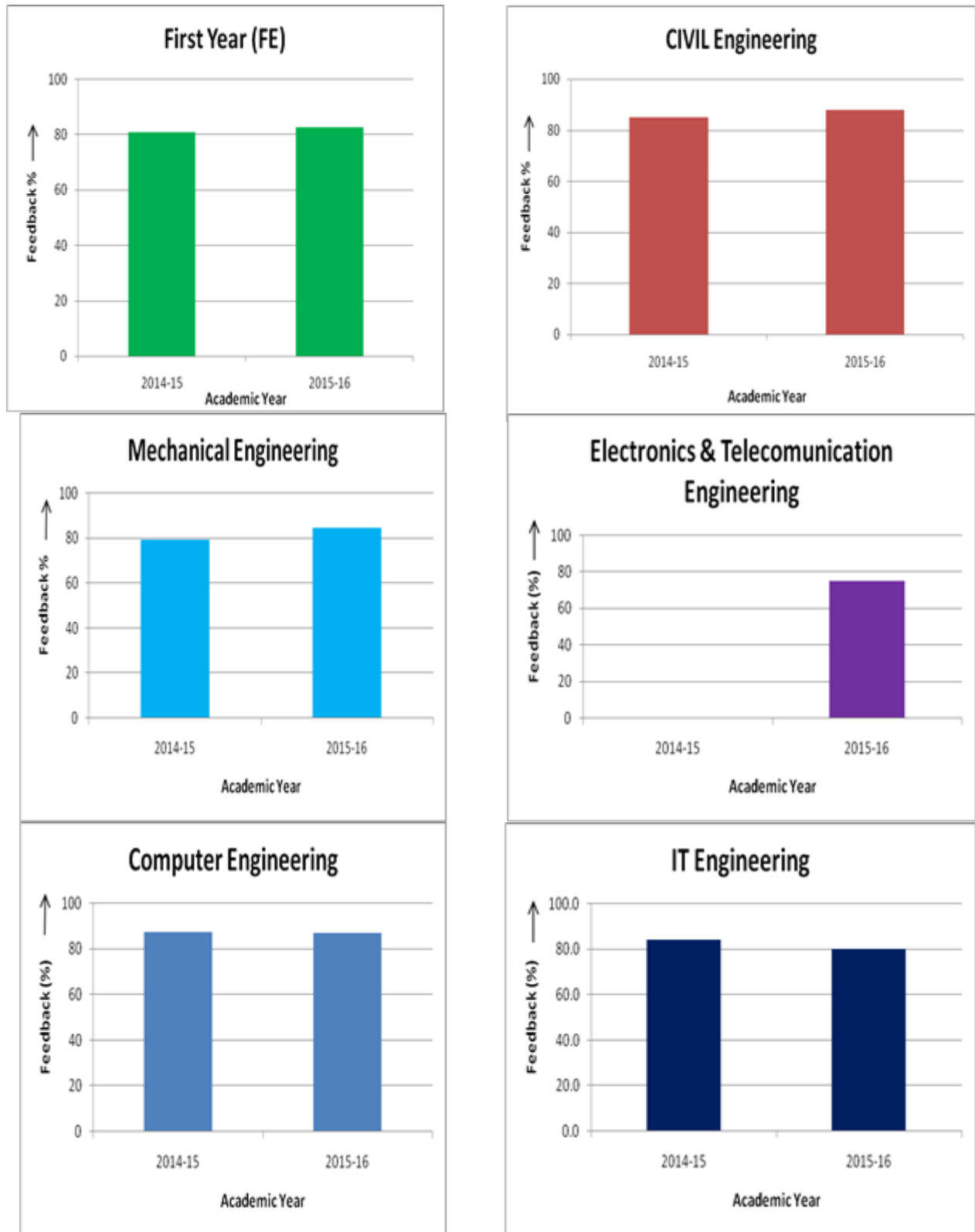
Fig. 3 Program wise Feedback

- The effective teaching learning system helps students to upgrade their technical and non-technical skills thus improving the college placements steadily. Pre-placement activities such as GD, Aptitude test, Mock interviews, Internships, Sponsor projects from industries also contribute to make them employable.

Academic Year	No. of Students Placed
2014-2015	58
2015-2016	94
2016-2017	

6. Problems Encountered and Resources Required

- Since institute is rural area based, recruitment and retention of high qualified and experienced staff is not easy. Institute motivates faculty for upgrading their qualification.

- Placement problem

Though steadily improved in placement records, placement of students is the major problem encountered in rural based area due to unavailability of industrial zone. But the special program oriented training sessions/courses from professional agencies/trainers has been organized for improving the employability of students or to fulfill the needs of Industries.

- The organizing of technical competitions, seminars, workshops, expert talks along with pre-placement activities such as GD, aptitude test, mock interviews can be difficult due to tight schedule of lectures and examinations.

- An immense pact of time is to be put apart by the entire faculty in monitoring, evaluation and appropriate documentation apart from the time spent for the class room teaching.

6. Contact Details

- Name of the Principal : Dr. M. D. Kokate
- Name of the Institution : SNJB's Late Sau KBJ College of Engineering, Chandwad
- City : Nasik
- Pin Code : 423101
- Accredited Status : NA
- Work Phone : 02556-253750
- Fax : 02556-253811
- Website: www.snjb.org
- E-mail : principalcoe@snjb.org

3. Evaluative Report of the Departments

Civil Engineering Department

1	**Name of the department**	Civil Engineering
2	**Year of Establishment**	2004
3	**Names of Programmes /Courses offered(UG,PG,M.Phil.,Ph.D.,Integrated Masters; Integrated Ph.D., etc.)**	UG: Bachelor's Degree in Civil Engineering
4	**Names of Interdisciplinary courses and the departments/units involved**	Applied Sciences: Engineering mathematics
5	**Annual/semester/choice based credit system (programme wise)**	UG: Semester based Percentage System
6	**Participation of the department in the Courses offered by other departments**	First Year Engineering:- Engg. Mechanics and Basic Civil
7	**Courses in collaboration with other universities, industries, foreign institutions, etc.**	NIL
8	**Details of courses/ programmes Discontinued (if any) with reasons**	NIL

9. Number of Teaching posts

	Sanctioned	Filled
Professors	1	0
Associate Professors	3	2
Asst. Professors	12	6

10. Faculty profile with name, qualification, designation, specialization,(D.Sc./D.Litt. /Ph.D. /M.Phil.etc.)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last4years
Prof. Bhirud Y.L.	M. Tech (Structure)	Asso.Prof	Structure	17yrs 6 M	-
Prof. Pawar S.M.	ME (WRE)	Asso.Prof	WRE	27yrs 6 M	-
Dr. Kalia S.N.	Ph.D	Asst. Prof	Geology	30 yrs	-
Prof. Yeole P.M.	ME (Structure)	Asst. Prof	Structure	10 yrs 6 M	-
Prof. Pawar L.B.	M.Tech (Structure)	Asst. Prof	Structure	6yrs 6 M	-
Prof. Pandit V.M.	M.Tech(Geotech)	Asst. Prof	Geotech	6yrs	-
Prof. Dhomase M.S.	ME (Structure)	Asst. Prof	Structure	3 yrs 6 M	-
Prof. Kale S.P..	ME (Structure)	Lecturer	Structure	3 yrs 6 M	-
Prof. Shirsath H.A.	ME (Geotech)	Lecturer	Geotech	3 yrs 6 M	-
Prof. Thakare A.K.	ME (CM)	Asst. Prof	CM	6yrs 6 M	-
Prof.Kulkarni M.A.	ME (Geotech)	Lecturer	Geotech	2 yrs 6M	-

Prof.Sonawane R.S.	ME (Geotech)	Lecturer	Geotech	1 yrs 6 M	-
Prof.Sonawane T.H.	ME (Structure)	Lecturer	Structure	1 yrs 6M	-
Prof.Aher D.D.	BE(Civil)	Lecturer	Civil	1 yrs 6M	-
Prof. Mengal G.A.	BE (Civil)	Lecturer	Civil	1 yrs 6M	

11. List of senior visiting faculty
NIL

12. Percentage of lectures delivered and practical classes handled (programme wise) By temporary faculty: NIL

13. Student-Teacher Ratio (programme wise) UG (INTAKE)

Total Strength SE To BE	Total no of Staff	Student Teacher ratio
180	11	16.4:1

14. Number of academic support staff (technical) and administrative staff; Sanctioned and filled

Sr No	Type of Staff	Sanctioned	Filled
1	Supporting Staff(Technical)	6	5
2	Administrative Staff	0	0
3	Peon	2	2

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/MPhil/PG
>>>Refer Question No 10

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received

No of Faculty	Funding Agency	Grants Received (Rs.)			
		2012-13	2013-14	2014-15	2015-16
-	-	-	-	-	-

17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc .and total grants received

Funding Agency	Total No of project	Sanctioned Amount

Funding Agency	Proposed	Total Grant Received
-	-	-

18. **Research Centre/facility recognized by the University**

NIL

19. **Publications:**

Year	Conference Publications	Journal Publications
2013-14	2	1
2014-15	--	--
2015-16	17	7

20. **Areas of consultancy and income generated**

1. **Material testing and structural consultancy for different construction materials and structures**

Academic Year	Income Generated (Rs.)
2012-13	11000 /-
2013-14	22450 /-
2014-15	10600 /-
2015-16	45700 /-
2016-17	17800 /-

21. **Faculty as members in**
a) **National committees b) International Committees c) Editorial Boards….**
NIL

22. **Student projects**

a) **Percentage of students who have done in-house projects including inter departmental/programme**

Year	%In house projects
2015-16	100%

b) **Percentage of students placed for projects in organizations outside the**

Institution i.e. in Research laboratories/Industry/other agencies

Year	Sponsored
2015-16	0%

23. Awards/Recognitions received by faculty

1. **Prof. Pawar L.B.** Promising Engineers Award' 2016 by Institution of Engineers, Nasik Chapter

Awards/Recognitions received by Students

Sr. No	Name of The Student	Class	Description of Achievement Done
1	Mr. Kaustubh Saundane	TE	He got 1stprize in an event" Screening Picture Test" and 2ndprize in an event "Kumbh Management" in state level technicalcompetition"TECHEXPLODE2015" organizedbyMET'sBKC CoE, Nashik.
2	Mr. Harshad Ahire	TE	He got 1st prize in an event "Make Fame" in State level technical competition "TECHEXPLODE2015" organized by MET's BKC CoE, Nashik.
3	Mr. Gautam Bedmutha, Ms.Samradni Bacchav Ms. Durgeshwari Patil	TE	They got 1st prize in an event "BlockTesting" in state level technical competition "TECHEXPLODE 2015" organized by MET's BKCCoE, Nashik.
4	Mr.Ankit Jain, Mr.Pranay Mahale and Mr.Sharad Mandawade	TE	They got 2nd prize in an event "Tower Tackle" in state level technical competition "TECHEXPLODE2015" organized by MET'sBKCCoE, Nashik
5	Mr. Dhanesh Bachhav	TE	He got 2nd prize in an event "Make Fame" in state level technical competition"TECHEXPLODE2015" organized by MET's BKC CoE, Nashik.

6	Mr.Mehul Jain, Mr.Akshay Bhansali, Mr.Akshay Jain, Mr.Sameer Naharand Mr.Shaktising Dhomase	BE(2016)	Participated & got prize with the hands of MLA of Chandwad Mr.Rahul Aher ,in Water Conservation Awareness Program organized by irrigation department of
7	Mr.Hansraj Dikkar	BE(2016)	He got 1st prize in event *POSTERCOMPETITION* at Techfest2016 conducted at Matoshri College of Engineering and Research, Nashik.
8	Mr.Hansraj Dikkar	BE(2016)	He got 2nd prize in creation from *Ewaste* At Techfest2016 conducted at Matoshri College of Engineering and Research, Nashik.

24. List of eminent academicians and scientists/visitors to the department

Name of Expert	Designation
Sanjay Bagul	Deputy Engineer, Irrigation Department, Govt. of Maharashtra.
Mr. M. N. Jadhav	Maharashtra Pollution Control Board (MPCB), Nashik
Mr. N.J. Ravkale	Assistant Engineer, BMC, Mumbai
Mr. Vikram Gaikwad	Chief Marketing Officer, India and Asia, EDSS, Pune
Prof. Ms. Shagufta Saher	Assistant Prof., Saboo Siddik College of Engineering, Bhaykhala, Mumbai.
Mr. Nilesh Aher	Assistant Engineer, Grade-I Govt. of Maharashtra
Dr. D. D. Sarode	HOD, General Sciences, ICT, Mumbai (Formerly known as UDCT, Mumbai)
Mr. Nitin Vanjari	Assistant Engineer Grade-I, Nashik Muncipal Corporation, Nashik.
Dr. A. D. Pawar	Assistant Professor, NICMAR, Pune
Mr. Yogesh Bamane	Project Manager, L&T, Mumbai
Mr. Vijay Warkad	Plant Manager, Rattan Power Ltd (India Bulls. Ltd)., Sinner, Nashik
Mr. Jagdish Patil	Deputy Engineer, Irrigation Department, Govt. of Maharashtra.

25. Seminars/Conferences/Workshops organized & the source of funding

A. National

B. International

Sr.No	Name of Seminars/ Workshop/ Conferences/ FDP	Funding Agency
1	Application of GIS in Watershed Mgt.	SPPU under QIP
2	ICRTET -2016	SNJB CoE, Chandwad

26. Student profile programme/course wise:

Year	Admission in First Year	Enrolled		Percentage
		Male	Female	
2012-13				
2013-14	63	52	11	
2014-15	63	40	23	
2015-16	63	38	25	

27. Diversity of Students

Academic Year	Name of the Course	%of students from the same state	%of students from other States	%of students from abroad
2013-14	Civil Engg (BE)	96.83	3.17	NIL
2014-15	Civil Engg (BE)	98.42	1.58	NIL
2015-16	Civil Engg (BE)	100	NIL	NIL

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Academic Year	Name of Examination	No of Students
2013-14	MPSC	05
2014-15	---	---
2015-16	GATE	01

29. **Student progression (UG to PG)**

Student progression	Against% enrolled (No of students are in in bracket)		
	2013-14 (67)	**2014-15 (58)**	**2015-16 (83)**
UG to PG	11.94 (08)	6.89 (04)	3.61 (03)
PG to M.Phil.	NA	NA	NA
PG to Ph.D.	NA	NA	NA
Ph.D. to Post-Doctoral	NA	NA	NA
Employed • Campus selection • Other than campus recruitment	00 37.31 (25)	8.62 (05) 36.20 (21)	00 NA
Entrepreneurship/Self-employment	7.46 (05)	3.45 (02)	NA

30. **Details of Infrastructural facilities**

   a) **Library:** 01

   b) **Internet facilities for Staff & Students:** 100mbps speed

   c) **Class rooms with ICT: 02**

   d) **Laboratories: 10**

31. **Number of students receiving financial assistance from college, university, Government or other agencies**

Year	No of Students receiving financial assistance from		
	College	**University**	**Other Agencies**

2. Details on student enrichment programmes (special lectures/workshops/ Seminar) with external experts

Sr No	Date	Name of Program	Name of Expert	Target Audience
		2013-14		
1	5/8/2013	Water resource management	Mr. Jagdish Patil and Sanjay Bagul	BE
2	9/8/2013	Pollution control	Mr. M. N. Jadhav	BE
3	16/8/2013	Infrastructural Engineering and tunneling Techniques	Mr. N.J. Ravkale	TE
4	23/9/2013	Project management	Mr. vikram Gaikwad	TE
5	30/9/2013	Environmental Engineering	Prof. Ms. Shagufta Saher	BE
6	25/3/2014	Competitive Exams	Mr. Nilesh Aher	TE & BE

Sr No	Date	Name of Program	Name of Expert	Target Audience
		2014-15		
1	23/8/2014	Innovations in Concrete Technology	Dr. D. D. Sarode	BE
2	23/8/2014	Advance Technique in Environment Management	Mr. Nitin Vanjari	BE

Sr. No	Date	Name of Program	Name of Expert	Target Audience
		2015-16		
1	10/12/2015	Advance techniques in Construction	Prof. A. D. Pawar	BE
2	6/2/2016	Advance technique in structural Engineering	Mr. Yogesh Bamane	BE
3	13/2/2016	Challenges in construction industry	Mr. Vijay Warkad	BE
4	20/2/2016	Water resource and its management	Mr. Sanjay Bagul	BE

33. Teaching methods adopted to improve student learning

All the classrooms equipped with DLP Projector with screen
Section models, demonstration models, Practical Machinery, kits and Charts
Technical Videos
Online Lectures
Black board Methods
IQAC
Industrial Visit

34. Participation in Institutional Social Responsibility (ISR) and Extension Activities

1. Water quality index of chandwad region a project done By BE students.
2. Construction of water Banking In Manmad a project done By BE students.

35. SWOC analysis of the department and Future plans

Department of Computer Engineering

1	Name of the department	Computer Engineering

1 **Name of the department**   Computer Engineering

2 **Year of Establishment**   2004

3 **Names of Programmes/Courses offered (UG,PG,M.Phil.,Ph.D.,IntegratedMasters; IntegratedPh.D.,etc.)**   UG: Bachelor's Degree in Computer Engineering

4 **Names of Interdisciplinary courses and the departments/units involved**   Applied Sciences: Engineering mathematics
E&TC: Digital Singnal Processing

5 **Annual/semester/choice based credit system(programmewise)**   UG: Semester based Percentage System

6 **Participation of the department in the courses offered by other departments**   First Year Engineering:- FPL
E & TC- OOP

7 **Courses in collaboration with other universities,industries,foreigninstitutios, etc.**   RHCE Training Academy Tie Up
Android

8 **Details of courses/programmes discontinued(if any)with reasons**   NIL

9. Number of Teaching posts

	Sanctioned	Filled
Professors	1	0
AssociateProfessors	3	2
Asst.Professors	11	11+2*

* 2 lecturer

10. Faculty profile with name, qualification, designation, specialization,(D.Sc./D.Litt. /Ph.D. /M.Phil.etc.)

Name	Qualification	Designation	Specialization	No.ofYears of Experience	No.ofPh.D. Students guidedfor the last4years
Mrs. K. M. Sanghavi	BE, ME (CSE)	Head & Associate Professor	Image Processing, Compiler Constructions OOMP ,C++, Java	15 years	Nil
Dr. M. R. Sanghavi	BE, ME, PhD (CSE)	Associate Professor	Image Processing, DBMS, Big Data & Hadoop, Business Intelligence , Data Structures	14 years	Nil
Mrs. B. A. Khivsara	BE, ME (CSE)	Assistant Professor	Data Mining, Networking, DBMS, Bigdata & Hadoop	9.10 years	Nil
Mr. V. V. Agrawal	BE, M.Tech (CSE)	Assistant Professor	Information Security, Software Testing	8.6 Years	Nil
Mr. D. R. Agrawal	BE, M-Tech(IT)	Assistant Professor	Multimedia Systems, Distributed Computing	9 years	Nil
Mrs. D. P. Pawar	BE, ME (CSE)	Assistant Professor	Data Mining, Software Testing	8.6 Years	Nil
R. R. Bhandari	BE, M-Tech (IT), PhD (Pursuing)	Assistant Professor	Computer Network and Wireless Sensor Network	8.6 Years	Nil
S. B. Ambhore	BE, M.E. (CSE) pursuing	Assistant Professor	Operating System, Cloud Computing	8.6 Years	Nil
D. S. Rajnor	BE, M-Tech (CSE)	Assistant Professor	Web Mining, OOMD	7 .7 Years	Nil
A. L. Maind	BE, ME	Assistant	Data Mining	8	Nil

	(CSE) Pursuing	Professor		Years	
G. P. Dhomse	BE, ME (CSE)	Assistant Professor	Data mining	7.6 Years	Nil
N. C. Mutha	BE, M-Tech (IT)	Assistant Professor	Image processing	7 Years	Nil
A. J. Shakadwipi	BE, M.E. (CSE)	Assistant Professor	Data Mining	3.6 Years	Nil
S. S. Wadnere	BE, ME (CSE)	Lecturer	Networking, Server Administration	9.6 yrs	Nil
Mr. P.R.Surana	BE, ME (CSE)	Teaching Assistant		1 Year	Nil
B. S. Lalwani	BE (CSE)	Lecturer	Image Processing	2.6 Years	Nil

11. **List of senior visiting faculty**
 Nil

12. **Percentage of lectures delivered and practical classes handled(programmewise)**
By temporary faculty:
 Nil

13. **Student-Teacher Ratio (programme wise)**

UG (INTAKE)

Total Strength SE To BE	Total no of Staff	Student Teacher ratio
210	15	14:1

PG (INTAKE)

Total Strength PG	Total no of Staff	Student Teacher ratio
-	-	-

14. Number of academic support staff (technical) and administrative staff; sanctioned and

filled

Sr No	Type of Staff	Sanctioned	Filled
1	Supporting Staff(Technical)		5
2	Administrative Staff		1
3	Peon		2

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG
   >>>Refer Question No 10

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received

No of Faculty	Funding Agency	Grants Received (Rs.)			
		2012-13	2013-14	2014-15	2015-16
		-	-	-	-

17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc .and total grants received

Funding Agency	Total No of project	Sanctioned Amount
Nil	**Nil**	**Nil**

Funding Agency	Proposed	Total Grant Received
DST	Submitting a proposal under Big Data Initiatives (BDI) Programme	Communicated
IPR India	Intellectual Property Rights (IPRs)	Communicated

18. Research Centre/facility recognized by the University
Nil

19. Publications:

Sr. No.	Faculty / Academic Year	Conference	Journal	Seminar	Workshop
1	Mrs. K.M. Sanghavi	11	8	4	4
2	Dr. M.R. Sanghavi	10	4	3	10
3	Mrs. B. A. Khivasara	13	8	5	23
4	Mr. D. R. Agrawal	2	4	0	6
5	Mr. V. V. Agrawal	3	0	0	2
6	Mrs. D. P. Pawar	3	2	0	1
7	Mr. R. R. Bhandari	4	8		10
8	Mr. S. B. Ambhore	5	0	0	9
9	Mr. D. S. Rajnor	3	1	1	3
10	Mr. A. L. Maind	1	0	1	4
11	Mr. G. P. Dhomase	5	1	1	11
12	Ms. N.C. Mutha	3	4	1	9
13	Mr.A. J. Shakadwipi	2	0	3	8
14	Mr. S. S. Wadnere	2	1	3	3
15	Mr. P.R. Surana	2	0	0	1
16	Ms. P.A. Soundankar	0	5	0	1
17	Ms. K.D. Chopra	1	3	2	6
18	Ms. B. S. Lalwani	2	0	0	1
19	Ms. K. L. Bafna	0	0	0	2

20. Areas of consultancy and income generated

Nil

21. Faculty as members in
a) National committees b) International Committees c) Editorial Boards….

Sr. No	Name	National Committee	International Committee	Editorial Board
1	Mrs. K.M. Sanghavi	CSI, IEI	IAENG, SDIWC	
2	Dr. M.R. Sanghavi	CSI, IEI	IAENG, SDIWC	IJIEST
3	Mrs. B. A. Khivasara	CSI, IEI		
4	Mr. D. R. Agrawal			
5	Mr. V. V. Agrawal	IEI	NIL	NIL
6	Mrs. D. P. Pawar	CSI, IEI		
7	Mr. R. R. Bhandari	CSI, IEI	IAENG, ISRD, SDIWC , IRED	IJIEST
8	Mr. S. B. Ambhore	IEI		
9	Mr. D. S. Rajnor	IEI	ISRD,IAENG	
10	Mr. A. L. Maind	IEI		
11	Mr. G. P. Dhomase	IEI	IAENG, ISRD	
12	N.C. Mutha	IEI	IAENG	
13	Mr. A. J. Shakadwipi	IEI		
14	Mr. S. S. Wadnere	IEI		
15	Mr. P.R. Surana	IEI		
16	Ms. B. S. Lalwani	IEI		
17	Ms. K. L. Bafna	IEI		

22. Student projects

a) **Percentage of students who have done in-house projects including inter departmental/programme**

Year	Percentage
2012-13	98.43
2013-14	100
2014-15	100
2015-16	98.86
2016-17	97.33

b) **Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies**

Year	Percentage
2012-13	1.56
2013-14	0
2014-15	0
2015-16	1.13
2016-17	2.67

23. Awards/Recognitions received by faculty

1. Asst.Prof. B.A.Khivsara…Engineer Achievement Award by Institution of Engineers, Nasik Chapter.

2. Dr.M.R.Sanghavi….. Significant Contribution Award by Computer Society of India(CSI)

3. Lect. S.S.Wadnere …Achieved post graduation in North Maharashtra University.

Awards/Recognitions received by Students

1. Vaishali Zoting(TE)…. First prize in solo dance(Annual Social Gathering Saptarang 16-17).
2. Bedmutha Tejas(BE) & Dhanashri Patil(BE)…. First prize in Duet Song(Annual Social Gathering Saptarang 16-17).
3. BE Computer Group….. First prize in Group Dance (Annual Social Gathering Saptarang 16-17).
4.Ankita Surana(TE),Neha Lunkad(TE),Vaishali Pote(TE),Monika Kothari(TE),Nikita Kochar(TE), Komal Kasliwal(BE), Payal Sanap(BE),Dhanshri Patil(BE),Megha Batija(BE), Purva Mutha(SE), Pooja Sahiwal(BE), Shraddha Badjate(BE), Poonam Deware(BE), Ratna Sonawane(BE)....Cricket Winner(Annual Social Gathering Saptarang 16-17).

5.Tanushree Sonar(TE).... Runner UP in Group Dance (Annual Social Gathering Saptarang 16-17).

6. Akash Walke(TE).... First prize in MisMatch day(Annual Social Gathering Saptarang 16-17).

7.Amol Jain(TE).... First prize in Duet Dance(Annual Social Gathering Saptarang 16-17).

8.Lakisha Jain(TE).... First prize in Anchoring (Annual Social Gathering Saptarang 16-17).

9. 1.Sandeep Gangurde,Divya Gugliya,Divya ChorDiya,Parakh Payal(final Year Students) winners of Zonal level event Avishkar Project 2016 .

24. List of eminent academicians and scientists/visitors to the department

1. Dr. Shirish Sane HoD Computer Department, KK Wagh Nashik
2. Dr. Varsha Patil, Vice Principal, MCERC, Nashik
3. Dr. Deepak V Patil, HoD Computer Department , Gokhale Education Society, Nashik
4. Dr. M. U. Kharat, HoD, Computer Department, MET IOE, Nashik
5. Dr. R. S. Tiwari, Former Scientist, MERI, Nashik
6. Dr. Ramchandra Manthalkar, SGGS, Nanded
7. Dr. Anagha Deshpande, HoD Computer Department DY Patil, Pune
8. Mr. Atul Kahate, Technical Writer, Pune
9. Dr. Preeti Bhamare, HoD IT KK Wagh Nashik
10. Mr. Sandeep Karkhanis, Manager Bosch Ltd, Nashik
11. Mr. Nikhil Pawar, Director, Webwing, nashik
12. Mr. Anand Shirsath, CEO, Arete Technology Nashik
13. Mr. Swapnil Sonkamble, CEO, Technocraft Forum, Nashik
14. Dr. Archana Rajurkar, MGM Nanded
15. Dr Jondhale, MGM Nanded
16. Dr. Uday Wad, Seed Infotech, Nashik
17. Mr. Ashwin Kandoi,Winjit Pvt Ltd, Nashik.
18. Mr. Sagar Surana, Project Manager, Amdocs, Pune
19. Dr. G.P. Patnaik, HoD, Jalgaon

25. Seminars/Conferences/Workshops organized & the source of funding

a) National

	Name of Seminars/Workshop/Conferences	Funding Agency
1	State Level One Week Workshop on NS2 & Suse Server Configuration dated from 4th - 8th Feb 2016	SNJB COE, Chandwad
2	State level One Week Short Term Training Program on Internet of Things dated from 12-16 December 2016	SNJB COE, Chandwad

B) International

	Name of Seminars/Workshop/Conferences	Funding Agency

26. **Student profile programme/coursewise :**

Year	Admission in First Year	Enrolled		Percentage
		Male	**Female**	
2012-13				
2013-14	**61**	**22**	**39**	
2014-15	**62**	**22**	**40**	
2015-16	**63**	**21**	**42**	

27. **Diversity of Students**

Name of the Course	%of students from the same state	% of students from other States	%of students from abroad

28. **How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?**

Academic Year	Name of Examination	No of Students
2012-13	**Nil**	**Nil**
2013-14	**Nil**	**Nil**
2014-15	**Nil**	**Nil**
2015-16	**Nil**	**Nil**

29. **Student progression**

Student progression	Against% enrolled
UG to PG	6
PG to M.Phil.	
PG to Ph.D.	
Ph.D. to Post-Doctoral	

Employed • Campus selection • Other than campus recruitment	
Entrepreneurship/Self-employment	

30. **Details of Infrastructural facilities**

   i) **Desktop Computers: 205**
   ii) **Laptop: 12**
   iii) **Printers: 24**
   iv) **System Software: 117**
   v) **Application Software: 53**

   a) **Library:** 01

   b) **Internet facilities for Staff & Students:** 100mbps speed

   c) **Class rooms with ICT: 02+03(Tutorial Room)**

   d) **Laboratories: 11**

31. **Number of students receiving financial assistance from college, university, Government or other agencies**

Year	No of Students receiving financial assistance from		
	College	**University**	**Other Agencies**
2012-13	**48**		
2013-14	**41**		
2014-15	**57**		
2015-16	**73**		

32. **Details on student enrichment programmes (special lectures/workshops/ seminar) with external experts**

Sr No	Date	Name of Program	Name of Expert	Target Audience
1	12 January 2012	Workshop on "LaTeX" for Project Report Preparation	Dr. Girish Patnaik, SSBt, Jalgaon	BE Computer & Faculty
2	13 Jul 2012	Project Ideas Elicitation	Mr.Atish Surana Infosys Pune	BE Computer & Project Guides
3	4 Aug 2012	Workshop on "Software Requirement Specification"	Aditya Choudhari	BE Computer
4	11 August 2012	Workshop on Literature Review	Dr.Varsha Patil Vice Principal MCERC, Nashik	BE Computer
5	1 Sept 2012	Workshop on "UML Diagrams"	Mr.Somnath Thingle	BE & TE Computer
6	15 July 2013	Project Ideas Elicitation	Ms. Vaishali Borse Amdocs, Pune	BE Computer
7	03-Aug-2013 & 06-Aug-2013	Workshop on Literature Review	Dr.Preeti Bhamre & Prof.M.R.Sanghavi,Prof.Bhaladhare P.R	BE Computer

8	17 Aug 2013	Workshop on "Software Requirement Specification"	Priten Nayak HCL Technologies Pune	BE Computer & Guides
9	27 March 2014	Seminar on Software Testing by SEED infotech, Nashik		TE & BE Computer
10	26 June 2014	Seminar on Project Idea Elicitation	Mr.Ashwin Kandoi Winjit Technologies, Nashik	BE Computer
11	19 August 2014	Expert Talk on Literature Survey	Dr.M U Kharat MET IOE, Nashik , Nashik	BE Computer
12	4 August 2014	Expert talk on Graphical User Interface	Mr.Kiran Pingle WinJit Technologies Nashik	BE Computer
13	17 August 2014	Expert Talk on Software Requirement Specification	Mr.Rahul Kotecha Mastek Mumbai	BE Computer
14	17 Sept 2014	Expert talk on Mathematical Modeling	Dr.P. R Bhaladhare	BE Computer
15	20 Sep 2014	Expert Talk on Design Phase	Umang Samani and Vinayak Magdum, Symantec, Pune	BE Computer & IT
16	1 Jan 2015	Workshop on Patent	Mr. Swapnil Gawande re P.R	Faculties of

		Registration		College
17	21 Feb 2015	How to Write Research Paper	Dr.V. A. Wankhede	Faculties
18	25 Sept 2015	Avishkar Project Poster Competition		BE Students
19	4-8 Feb 2016	State level Workshop on NS2 and SUSE Configuration	Mr.Rajendra Bhosale & Dr.G.K Patnaik	PG Students & Faculties
20	22 March 2016	One Day Workshop on Testing	Mr. Ram Prasad Sarda	BE Computer
21	24/06/2016	Seminar on PHP programming	Mr. Swapnil Sonkamble	TE & BE Computer
22	24/06/2016	Seminar on RedHat Linux Certification Awareness	Amreen Kazi Vedashri deshpande	SE TE BE Computer
23	24/06/2016	Rules and Regulation for UG Credit System	Prof. S. D. Sancheti	SE Computer
24	27/07/2016	Seminar on "Digital Marketing,Android and IOS App Development	Mr.Samir kulkarni Gaurav Lonkar	TE & BE
25	16/07/2016	Expert talk on Internet of Things	Dr.R.S. Tiwari Intellidemics, Nasikk	TE & BE

26	July-Sept 2016	SPARK three months training on android & core java	Mr.Samir kulkarni Gaurav Lonkar	BE & TE
	23/7/2016	Session on Wordpress Awareness	Prof.D.S.Rajnor	BE & TE

33. Teaching methods adopted to improve student learning

- All the classrooms equipped with DLP Projector with screen
- Section models, demonstration models, Practical Machinery ,kits and Charts
- Technical Videos
- Online Lectures
- Black board Methods
- IQAC

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

1. Blanket Distribution to Needy people on 26/12/2016.
2. Pre-Preliminary teacher training 10/12/2016.
3. Cashless awareness by street play 30/12/2016.

35. SWOC analysis of the department and Future plans

Strengths:

- Type of Teacher-Student involvement in academic activities are great
- The College is based on a unique philosophy of education which combines the material with the spiritual and offers students to develop themselves as fully integrated.
- The College can boost of near perfect academic discipline. There has been no disruption in the Academic Calendar due to disturbances that institution of higher learning.
- The College has a dedicated faculty, highly efficient support staff, and a team of monastic members who are available on the campus round the clock and take care of all aspects of the campus, the academic and the personal.
- The infrastructural support offered by the College to students can compare with the best in this part of the country. The teacher-student ratio, which is perhaps unparalleled in the country, makes it possible for teachers to successfully address individual need of

the students.

- The NSS wing of the College have been very active and have participated with great enthusiasm in activities like blood donation, first aid training, health awareness survey etc.

Weaknesses:-

- The socio-economic background of many of the students (some of them are first and second generation learners) admitted in the College is responsible for poor language competence (both in their mother tongue as well as English). This leads to an unsatisfactory level of comprehension and communication, particularly in the first two semesters.
- The semester system poses a number of problems which the College has not been able to come to terms with.

Opportunities:-

- The new learning of the age requires greater proficiency in soft skills among students.
- The College possesses the academic and financial resources to publish peer reviewed research journals. The College is poised to take the initiative in this regard.

Challenges:-

- The College has the necessary technical and infrastructural resources to take this to a higher level.
- Retaining the unique character of the College in an increasingly consumerist society poses a great challenge to the ideals the institution upholds.

Department of Electronics and Telecommunication

1	**Name of the department**	E & TC Engineering
2	**Year of Establishment**	2004
3	**Names of Programmes/Courses offered (UG,PG,M.Phil.,Ph.D.,IntegratedMasters; IntegratedPh.D.,etc.)**	UG: Bachelor's Degree in E & TC Engineering PG: Masters Degree in VLSI and Embedded
4	**Names of Interdisciplinary courses and the departments/units involved**	Applied Sciences: Engineering mathematics
5	**Annual/semester/choice based credit system(programmewise)**	UG: Semester based Percentage System PG:Semester based Credit System
6	**Participation of the department in the courses offered by other departments**	
7	**Courses in collaboration with other universities,industries,foreigninstitutios, etc.**	Hydraulic and Pneumatic training in collaboration with TAACT,Nashik
8	**Details of courses/programmes discontinued(if any)with reasons**	NIL

9. Number of Teaching posts

	Sanctioned	Filled
Professors	2	2
AssociateProfessors	3	1
Asst.Professors	12	9

10.Faculty profile with name, qualification, designation, specialization,(D.Sc./D.Litt. /Ph.D. /M.Phil.etc.)

Name	Qualification	Designation	Specialization	No.ofYears of Experience	No.ofPh.D. Students guidedforthe last4years
Dr.Kokate M.D.	Ph.D	Professor	Communication		
Dr.Wankhede V.A	Ph.D	Professor	Communication		01
Prof.Agrawal R.K.	ME(Electronics)	Asso.Prof	Electronics		
Prof.Mechkul M.A.	ME(Electronics)	Asst. Prof	Communication		
Prof.Hon Y.S.	ME(Electronics)	Asst. Prof	Electronics		
Prof.Thakare S.S.	M.Tech(Microwave)	Asst. Prof	Microwave		
Prof.Tated K.S.	ME(VLSI&ES)	Asst. Prof	VLSI&ES		
Prof.Pawar G.S.	ME(VLSI&ES)	Asst. Prof	VLSI&ES		
Prof.Geete R.A.	ME(VLSI&ES)	Asst. Prof	VLSI&ES		
Prof.Gosavi S.S.	BE E & TC	Lecturer			
Prof.Memane S.B.	ME(VLSI&ES)	Asst. Prof	VLSI&ES		
Prof.Bamb K.K.	ME(VLSI&ES)	Asst. Prof	VLSI&ES		
Prof.Mutha H.H.	ME(VLSI&ES)	Asst. Prof	VLSI&ES		
Prof.Chopda P.P.	ME(VLSI&ES)	Asst. Prof	VLSI&ES		
Prof.Gawande R.M.	ME(VLSI&ES)	Asst. Prof	VLSI&ES		
Prof.Jain A.A.	ME(VLSI&ES)	Asst. Prof	VLSI&ES		
Prof.Chudiwal R.M.	M.Tech	Asst. Prof	VLSI&ES		
Prof.Pawar D.J.	ME(VLSI&ES)	Lecturer	VLSI&ES		

11.   List of senior visiting faculty
   1. Dr. Nitin Futane, Professor, Government College of Engineering,Avsari,Pune

   2. Dr. B P Patil , Professor ,

   3. Dr. S D Pable , Associate Professor, Matoshri College of Engineering and Research,
Nashik.

   4. Dr. Shekhar Paranjape

   5. Dr. B J Pawar

**12.   Percentage of lectures delivered and practical classes handled(programme wise)
     By temporary faculty:** NIL

13.   **Student-Teacher Ratio (programme wise)**

UG (INTAKE)

Total Strength SE To BE	Total no of Staff	Student Teacher ratio
180	15	12:1

PG (INTAKE)

Total Strength PG	Total no of Staff	Student Teacher ratio
36	3	12:1

**14. Number of academic support staff (technical) and administrative staff; sanctioned and
filled**

Sr No	Type of Staff	Sanctioned	Filled
1	Supporting Staff(Technical)	6	5
2	Administrative Staff	0	0
3	Peon	2	2

**15.   Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG
   >>>Refer Question No 10**

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received

No of Faculty	Funding Agency	Grants Received (Rs.)			
		2012-13	2013-14	2014-15	2015-16

17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc .and total grants received

Funding Agency	Total No of project	Sanctioned Amount

Funding Agency	Proposed	Total Grant Received

18. Research Centre/facility recognized by the University

19. Publications:

20. Areas of consultancy and income generated

21. Faculty as members in
a) National committees b) International Committees c) Editorial Boards….

22. Student projects

a) **Percentage of students who have done in-house projects including inter departmental/programme**

b) **Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies**

23. Awards/Recognitions received by faculty

1. **Prof. Dr. Wankhede V A…**Engineer Achievement Award by Institution of Engineers, Nasik Chapter
2. **Prof. Chopda P P……**Topper in M E (E&TC) in VLSI and Embedded systems with 2nd Rank.

Awards/Recognitions received by Students

1. **Bhure Surbhi….** First prize in engg. olympiad exam2016
2. **Kambali Kiran….** Second Prize winner in Mimikry
3. **Dashpute Sanket…..** First prize in debate in youth festival

24. List of eminent academicians and scientists/visitors to the department

25. Seminars/Conferences/Workshops organized & the source of funding a)

National

B)International

	Name of Seminars/Workshop/Conferences	Funding Agency
1	DSP using XILINX	SPPU
2	ICRTET -2014	SNJB CoE,Chandwad

26. Student profile programme/coursewise :

Year	Admission in First Year	Enrolled		Percentage
		Male	Female	
2012-13	61	27	34	
2013-14	59	23	36	
2014-15	60	24	36	
2015-16	43	18	25	

27. **Diversity of Students**

Name of the Course	%of students from the same state	%of students from other States	%of students from abroad

28. **How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?**

Academic Year	Name of Examination	No of Students
2015-2016	**GATE**	**02**

29. **Student progression**

Student progression	Against% enrolled
UG to PG	
PG to M.Phil.	
PG to Ph.D.	
Ph.D. to Post-Doctoral	
Employed • Campus selection • Other than campus recruitment	
Entrepreneurship/Self-employment	

30. **Details of Infrastructural facilities**

   a) **Library:** 01

   b) **Internet facilities for Staff & Students:** 100mbps speed

   c) **Class rooms with ICT : 02+03(Tutorial Room)**

   d) **Laboratories: 11**

31. **Number of students receiving financial assistance from college, university, Government or other agencies**

Year	No of Students receiving financial assistance from		
	College	University	Other Agencies

32. **Details on student enrichment programmes (special lectures/workshops/ seminar) with external experts**

2012-13				
Sr No	Date	Name of Program	Name of Expert	Target Audience

33. **Teaching methods adopted to improve student learning**

- All the classrooms equipped with DLP Projector with screen
- Section models, demonstration models, Practical Machinery ,kits and Charts
- Technical Videos
- Online Lectures
- Black board Methods
- IQAC

34. **Participation in Institutional Social Responsibility (ISR) and Extension activities**

35. **SWOC analysis of the department and Future plans**

Department of Information Technology

1	**Name of the department**	Information Technology
2	**Year of Establishment**	2008
3	**Names of Programmes/Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)**	UG: Bachelor's Degree in Information Technology
4	**Names of Inter disciplinary courses and the departments/units involved**	Applied Sciences: Engineering mathematics
5	**Annual/semester/choice based credit system (programe wise)**	UG: Semester based Percentage System
6	**Participationofthedepartmentintheco ursesofferedbyotherdepartments**	
7	**Courses in collaboration with other universities, industries, foreign institutions, etc.**	NIL
8	**Details of courses/ programes discontinued(if any)with reasons**	NIL

9. Number of Teaching posts

	Sanctioned	Filled
Professors	1	0
Associate Professors	2	0
Asst. Professors	12	8

10. Faculty profile with name, qualification, designation, specialization,(D.Sc./D.Litt. /Ph.D./M.Phil. etc.)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4
Prof. Desai P. S.	ME(CSE)	Asst.Prof	Computer Science	8.6 Yrs	-
Prof. Chavan S. A.	ME(CSE)	Asst.Prof	Computer Science	8 Yrs	-
Prof. Kawade M. D.	ME(CSE)	Asst.Prof	Computer Science	8 Yrs	-
Prof. Achaliya P. N.	ME(CSE)	Asst.Prof	Computer Science	6.6 Yrs	-
Prof. Sinha S. V.	MTech(IT)	Asst.Prof	Information Technology	10.6 Yrs	-
Prof. Nirmal K. R.	MTech(IT)	Asst.Prof	Information Technology	8 Yrs	-
Prof. Khairnar N. S.	ME(Computer)	Asst.Prof	Computer	6.6 Yrs	-
Prof . Mahale S. B.	ME(CSE)	Asst.Prof	Computer Science	6.6 Yrs	-
Prof . Bafna R. P.	MTech(CSE)	Asst.Prof	Computer Science	5.6 Yrs	-
Prof . Bramhecha A. R.	ME(CSE)	Asst.Prof	Computer Science	4 Trs	-
Prof. Wani V. K.	MTech (CSE)	Asst.Prof	Computer Science	8 Yrs	-
Prof. Desai Y. K.	ME(Computer)	Asst.Prof	Computer	8.6 Yrs	-
Prof. Sharma N. V	MTech (CSE)	Asst.Prof	Computer Science	6 Yrs	-

11. List of senior visiting faculty
1. Dr.M. U. Kharat, Associate Professor, MET Institute of Engineering, Nashik
2. Dr. Priti Bhamare, Associate Professor, K. K. Wagh College of Engineering, Nashik.
3. Prof. S. V. Purkar, Assistant Professor, K. K. Wagh College of Engineering, Nashik.
4. Prof. T. B. Khute, Assistant Professor, Sandip Institute of Technology, Nashik.

12. Percentage of lectures delivered and   practical classes and led (program wise) By temporary faculty: NIL

13.   Student-Teacher Ratio (program wise) UG (INTAKE)

Total Strength SE To BE	Total no of Staff	Student Teacher ratio
157	13	12:1

PG (INTAKE)

Total Strength PG	Total no of Staff	Student Teacher ratio
--	--	--

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Sr No	Type of Staff	Sanctioned	Filled
1	Supporting Staff(Technical)	6	6
2	Administrative Staff	0	0
3	Peon	2	2

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG

>>> Refer Question No 10

16. Number of faculty with ongoing projects from a)National b)International funding agencies and grants received

No of Faculty	Funding Agency	Grants Received(Rs.)			
		2012-13	2013-14	2014-15	2015-16
-	-	-	-	-	-

17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received

Funding Agency	Total No of project	Sanctioned Amount
BCUD	**1**	**170,000/-**

Funding Agency	Proposed	Total Grant Received
-	-	-

18. Research Centre/facility recognized by the University

NIL

19. Publications:

Year	Conference Publications	Journal Publications
2012-13	05	04
2013-14	08	03
2014-15	09	10
2015-16	5	5

20. Areas of consultancy and income generated NIL

21. Faculty as members in
   a) National committees b) International Committees c) Editorial Boards

22. Student projects

   a) Percentage of students who have done in-house projects including inter departmental/program

Year	% In house projects
2015-16	**55%**

   b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories Industry/other agencies.

Year	Sponsored
2015-16	**9%**

23. Awards/Recognitions received by faculty

   1. **Prof. Achaliya P. N.** Received "Aadarsh Shishak Award" nationals by Mahavir International
   2. **Prof. Bramhecha A. R.** Received "Aadarsh Shishak Award" nationals by Mahavir International
   3. **Prof. P.R. Bhaldhare** Received "Engineers Achievement Award" by **The Institution of Engineers (India)" Nashik Chapter**

   Awards/Recognitions received by Students

   1. **Ms Heena Khan**   Prize at University Level in Avishkar Competition
   2. **Ms. Pande Saloni**   Prize at University Level in Avishkar Competition
   3. Mr. Pathan Saiijjad   Prize at University Level in Avishkar Competition
   4. **Mr. Rohit Tanpure**   Prize at University Level in Avishkar Competition

24. List of eminent academicians and scientists/visitors to the department : NIL

25. Seminars/Conferences/Workshops organized & the source of funding

    A. National   B. International

	Name of Seminars/Workshop/Conferences	Funding Agency
1	ICRTET-2012	SNJBCoE,Chandwad

26. Student profile program/course wise:

Year	Admission in First Year	Enrolled		Percentage
		Male	**Female**	
2012-13	51	16	35	
2013-14	35	10	25	
2014-15	21	06	25	
2015-16	39	13	26	

27. Diversity of Students

Name of the Course	% of students from the same state	%of students from other States	% of students from abroad

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Academic Year	Name of Examination	No of Students
NIL	NIL	NIL

29. Student progression

Student progression	Against % enrolled

UG to PG	
PG to M.Phil.	
PG to Ph.D.	
Ph.D. to Post-Doctoral	

Employed •Campus selection •Other than campus recruitment	08 06
Entrepreneurship/Self-employment	

30. Details of Infrastructural facilities

a) **Library:** 01
b) **Internet facilities for Staff & Students:** 100 mbps speed
c) **Class rooms with ICT:** 02+ 1(Tutorial Room)
d) **Laboratories:** 08

31. Number of students receiving financial assistance from college, university, Government or other agencies

Year	No of Students receiving financial assistance from		
	College	**University**	**Other Agencies**

32. Details on student enrichment programs (special lectures/workshops/Seminar) with external experts

2013-14				
Sr No	**Date**	**Name of Program**	**Name of Expert**	**Target Audience**
1	1/02/13	State Level Workshop on "Database Administration Using Oracle 11g"	Mr. Rajesh Borse	TE, BE Outside Participants
2	3/04/13	Workshop on C# .Net	Mr. Vitthal Dhoke	BE
3	5/04/13	Workshop on "LINUX"	Mr. Sagar Ikhankar	TE, BE
4	22/07/13	Space Reunion & Gurupornima Function	Mr. Vijay Mhaske	SE, TE BE

5	17/08/13	Seminar on software requirement specification	Mr. Priten Nayak	BE
6	24/08/13	Wonders of Internet Marketing	Mr. Saurabh Mishra	SE, TE, BE
7	31/08/13	Seminar on Laptop Trouble Shooting	Mr. Harshad Lunkad	BE

2014-15				
Sr. No.	Date	Name of Program	Name of Expert	Target Audience
1	12 Jan 2014	Seminar on "Project Idea Elicitation and Inauguration of	Mr. Ashvin Kandoi	BE
2	26 Feb 2014	Seminar on "Hadoop and Big Data"	Mr. Shrikant Gavande.	BE
3	14 March 2014	Seminar on "Network Security and Cyber Crime"	Mr .Atul Kahate.	TE
4	28 June 2014	Seminar on "Project Idea Elicitation"	Mr.Ashvin Kandoi	BE
5	19 July 2014	Seminar on "Literature	Dr.M. U. Kharat	BE
6	4-5Aug 2014	State Level Workshop on "Network Simulation and Server Administration"	Mr.Rakesh Patil,	TE,BE,
7	17 Aug 2014	Seminar on "Software Requirement Specification"	Mr. Rahul Kotecha,	BE
8	20 Sept 2014	Seminar on "Object Oriented Modeling & Design"	Mr. Vinayak Migdum Mr. Umang Samani	BE
9	16-17 Jan 2015	State Level Workshop on "Network Simulation and Server Administration"	Mr.Rakesh Patil	TE, BE, Outside Participant
10	20 Jan 2015	State level Event "Techyons-2015"	Prof. C.R. Nanawati	SE, TE, BE, Outside Participant
11	31 Jan 2015	Workshop on "Project Development"	Mr.Vaibhav Kalange, Mr.Sachin Dabhadkar, Mr.Devendra Mungee	BE
12	14 Feb 2015	Workshop on "Software Testing"	Mr.Nishant Jadhav	BE

		2015-16		
Sr. No.	Date	Name of Program	Name of Expert	Target Audience
1	4/8/2015	Personality Development Workshop	Mr. Ajay Rajankar	SE, TE, BE
2	3/09/2015	Seminar on Stress Free Life	Mr. Hemant Patil	SE, TE, BE
3	12/09/2015	Workshop On Pre Avishkar 2015	Mr. M. H. Ansari	BE
4	28/09/2015	Workshop on NS2 & Socket Programming.	Prof. S. V. Purkar	TE,BE
5	14/02/2016	Workshop on Linux & Kernel Programming	Prof. T. B. Khute	BE
6	10/03/2016	Seminar on Personality Development And Effective Leadership	Dr. M. V. Saykhedkar	SE, TE, BE
7	19/03/2016	A Seminar on How to tackle the interviews of Companies	Mr Anil Kale	TE,BE
8	21/03/2016	A workshop on computer Graphics and Animation	Mr. Vishal Desai	SE
9	31/01/2016	Development Phase Java	Mr. Vaibhav Kalange	BE
10	26/3/2016	Project Implementation (JAVA)& testing	Mr. Sumit Thakkar Mr. Deepal Rane	BE

33. Teaching methods adopted to improve student learning

- All the class rooms equipped with DLP Projector with screen
- Section models, demonstration models, Practical Experiments, kits and Charts etc.
- Technical Videos
- Online Lectures
- Blackboard Methods
- IQAC

34. Participation in Institutional Social Responsibility(ISR) and Extension Activities
1. A Free workshop on "E-Banking" for woman of Chandwad town is Organized and conducted by Information Technology department as a part of social activity.
2. Awareness of 'Cashless India' to different schools & Colleges by Staff.

35. SWO C analysis of the department and Future plans

Department of Mechanical Engineering

1	**Name of the department** :	Mechanical Engineering
2	**Year of Establishment** :	2004 (with intake 60) 2012 (additional 60 intake)
3	**Names of Programmes /Courses offered** :	Bachelors in Mechanical Engineering
4	**Names of Interdisciplinary courses and the departments/units involved** :	**Applied Science:** Engineering Physics, Engineering Chemistry, Engineering Mathematics-I,II,III. **E&TC Dept.:** Basic Electronics Engineering Basic Electrical Engineering, Electrical Engineering. **I. T. Dept.:** Fundamentals of Programming and Language. **Civil Engineering Dept.:** Engineering Mechanics, Basic Civil Engineering.
5	**Annual/semester/choice based credit system (programme wise) :**	F.E. & S.E.: Semester based Credit System. T.E. & B.E.: Semester based Percentage System.
6	**Participation of the department in the courses offered by other departments :**	Engineering Graphics-I, Engineering Graphics-II, Basic Mechanical Engineering.
7	**Courses in collaboration with other universities, industries, foreign institutions, etc. :**	Hydraulics & Pneumatic training in collaboration with TAACT, Nashik.
8	**Details of courses/programmes discontinued (if any) with reasons :**	Nil
9	**Number of teaching posts :**	

	Sanctioned	Filled
Professors	03	01
AssociateProfessors	06	01
Asst.Professors	19	25

10.	**Faculty profile with name, qualification, designation, specialization, (D.Sc. / D.Litt. / Ph.D. / M.Phil. etc.,)**

Sr. No.	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students Guided for the Last 4 years
1	Rathore M. M.	M. E.	Prof. & HOD	Thermal and Solar	30 Y,	**0**
2	Ahire M. A.	M. E.	Asso. Prof.	Machine Design	13 Y.	**0**
3	Patil R. C.	M. E.	Asst. Prof.	Thermal	18 Y, 7 M.	**0**
4	Pagar J. S.	M. E.	Asst. Prof.	Machine Design	9 Y, 6 M.	**0**
5	Sancheti S. D.	M. E.	Asst. Prof.	Machine Design	12 Y, 6 M.	**0**
6	Sonar R. M.	M. E.	Asst. Prof.	Machine Design	9Y.	**0**
7	Shinde R. M.	M. E.	Asst. Prof.	Machine Design	7 Y, 6 M.	**0**
8	Chaudhari R. S.	M. E.	Asst. Prof.	Machine Design	8 Y, 6 M.	**0**
9	Thakare H. R.	M. Tech.	Asst. Prof.	Thermal System Design	7 Y, 6 M.	**0**
10	Deore H. S.	M. E.	Asst. Prof.	Machine Design	7 Y, 6 M.	**0**
11	Bora P. M.	M. Tech.	Asst. Prof.	Machine Design & Robotics	8 Y, 6 M.	**0**

12	Patil S. U.	M. E.	Asst. Prof.	Thermal	5Y, 6 M.	**0**
13	Gore K. B.	M. E.	Asst. Prof.	Design of Mechanical System	5Y.	**0**
14	Jadhav V. C.	M. E.	Asst. Prof.	Design of Mechanical System	5Y.	**0**
15	Sancheti D. D.	M. E.	Lecturer	CADME	3Y, 6M	**0**
16	Bagmar P. D.	B. E.	Lecturer	CADME	3Y, 6M	**0**
17	Dareker D. H.	B. E.	Lecturer	Mechanical	2Y, 6M	**0**
18	Kapate M. P.	B. E.	Lecturer	Mechanical	3Y, 6M	**0**
19	Kulkarni Y.S.	M. Tech.	Asst. Prof.	Thermal	2Y, 6M	**0**
20	Kankriya R. R.	M. E.	Asst. Prof.	Machine Design	2Y, 6 M	**0**
21	Ingle S. P.	B. E.	Lecturer	Mechanical	2Y, 6M	**0**
22	Chandore R. N.	B. E.	Lecturer	Mechanical	1Y, 6M	**0**
23	Shinde M. D.	M. Tech.	Lecturer	Thermal	2 Y, 6 M.	**0**
24	Suryawanshi D. S.	M. Tech.	Asst. Prof.	Design of Mechanical System	6Y, 6M	**0**
25	Gujrathi A. S.	M. Tech.	Asst. Prof.	Thermal Engineering	5Y, 6 M.	**0**
26	Beldar M. S.	B. E.	Lecturer	CAD	3Y, 6M	**0**
27	Ms. Sudake R. D.	B. E.	Lecturer	Mechanical	1 Y.	**0**

11   **List of senior visiting faculty :**   Nil

12.   **Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:**

Name of Faculty	% of class	Academic Year
Er. S.B. Bandekar	8.30%	2015-16
Er. Ajit S. Datar	4.75 %	2016-17

13. **Student-Teacher Ratio (programme wise) :**

Academic Year	Student-Teacher Ratio
2012-13	16:1
2013-14	16:1
2014-15	16:1
2015-16	16:1

14. **Number of academic support staff (technical) and administrative staff; sanctioned and filled**

Sr. NO.	Type of Staff	Sanctioned	Filled
1	Supporting Staff (Technical)	06	06
2	Administrative Staff	00	00
3	Peon	02	02

15 Qualifications of teaching faculty with   Refer Question No. 10
DSc /D.Litt /Ph.D /MPhil /PG.:

16. **Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:**

No. of Faculty	Funding Agency	Grants Received (Rs.)			
		2012-13	2013-14	2014-15	2015-16
-	-	-	-	-	-

17. **Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received**

Funding Agency	Total No. of Projects	Academic Year	Sanctioned Amount
BCUD	01	(2013-14)	260000/-
BCUD	01	(2014-15)	120000/-

Funding Agency	Total No. of Projects	Sanctioned Amount
-	-	-

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18. **Research Centre/facility recognized by the University:** Nil

19. **Publications:**

Sr. No.	Name of Faculty	Papers published in peer reviewed journals	Monographs, Books, Chapters in books	Citations	h-index	Impact factor range/ Average Impact factor
1	M. M. Rathore	5	8	63	2	3.518
2	R. C. Patil	4	0	4		
3	S. D. Sancheti	2	0			
4	H. R. Thakare	4	0	15	3	4.063
5	R. S. Chaudhari					
6	R. M. Sonar	1	Nil	Nil	Nil	3.518

20. **Areas of consultancy and income generated:** Nil.

21. **Faculty as members in**   : Nil.
     a) National committees   : Nil.
     b) International Committees   : Nil.
     c) Editorial Boards….   : **1.** Prof. M. M. Rathore (IJIEST, SNJB)
                                                   2. Prof. R. C. Patil (IJIEST, SNJB)

22. **Student projects**
   a) **Percentage of students who have done in-house projects including interdepartmental/programme**

Year	% In-house Projects
2013-14	89.5
2014-15	86.4
2015-16	68.5

   b) **Percentage of students placed for projects in organizations outside the institution i.e., in Research laboratories/Industry/ other agencies**

Year	% Sponsored Projects
2013-14	10.5
2014-15	13.6
2015-16	31.5

23. **Awards/Recognitions received by**

A) Faculty

Sr. No.	Name of Faculty	Award received
1	S. D. Sancheti	Engineer Achievement Award by Institution of Engineers, Nashik Zone. (2014-15)

B) Students:

Sr. No.	Name of Student	Award received
1	Saurabh Polekar	Avishkar-2016 Project Competition at KKWIEER, Nashik. (Zonal Level)
2	Yogesh Joshi	
3	Gaurav Tekale	
4	Nitin Munavat	
5	Gadakh Yogesh	Avishkar-2015 Project Competition University Level Winner.
6	Patil Mahesh	
7	Nikhade Rohan	
8	Malvi Vishal	
9	Mayur Kumbhoje	Team member of SPPUniversity Cricket Team 2014.
10	Sangram Waghchaure	National Level Steet FootBall Competition, Chandigarh. 2014
11	Sanket Hire	Winner, University Level Debate Compitition, 2016
12	Fahim Fhan	Winner, University Level Mimicry Compitition, 2016

24. **List of eminent academicians and scientists/visitors to the department:** Nil.

25. **Seminars/Conferences/Workshops organized & the source of funding**

a) **National**

ACADEMIC YEAR	Name of Conference/ Seminars / Workshops	Funding agency	No. of Participants	University/ State/ National/ International
2015-16	Implementation of PPE Syllabus meeting	SNJB's Late Sau K. B. Jain COE, Chandwad.	30	**University**

ACADEMIC YEAR				
2015-16	Implementation of MSD Syllabus meeting	SNJB's Late Sau K. B. Jain COE, Chandwad.	30	**University**

b) International

ACADEMIC YEAR	Name of Conference/ Seminars / Workshops	Funding agency	No. of Participants	University/ State/ National/ International
2014-15	ICRTET 2015	SNJB's Late Sau K. B. Jain COE, Chandwad.	700	**International**

26. **Student profile programme/course wise:**

Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
UG Mechanical Engineering 2013-14	120	120	107	13	
UG Mechanical Engineering 2014-15	118	118	104	14	
UG Mechanical Engineering 2015-16	120	120	109	11	
UG Mechanical Engineering 2016-17	92	92	81	11	

*M=Male *F=Female

27. **Diversity of Students**

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
UG Mechanical Engineering 2013-14	100	0.0	0.0
UG Mechanical Engineering 2014-15	100	0.0	0.0

UG Mechanical Engineering 2015-16	100	0.0	0.0
UG Mechanical Engineering 2016-17	100	0.0	0.0

28. **How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?**

Academic Year	Name of Examination	No of Students
2013-14	GATE	01
2014-15	GATE	01
2015-16	GATE	00

29. **Student progression**

Student progression	Against % enrolled
UG to PG (2015-16)	30.59
PG to M. Phil.	00
PG to Ph.D.	00
Ph.D. to Post-Doctoral	00
Employed •**Campus selection** •**Other than campus recruitment**	36.50
Entrepreneurship/Self-employment	

30. **Details of Infrastructural facilities**
    a) Library - 01
    b) Internet facilities for Staff & Students - 100 mbps Speed
    c) Class rooms with ICT facility – 04 Classrooms
    d) Laboratories - 12

31. **Number of students receiving financial assistance from college, university, Government or other agencies:**

Year	No of Students receiving financial assistance from		
	College	University	Other Agencies
--	--	--	--
--	--	--	--

32. **Details on student enrichment programmes (special lectures/workshops/ Seminar) with external experts**

Sr. No.	Special Lecture / Workshop / Seminar
1	• Expert Talk on "Fundamental & Applications of Computational Fluid Dynamics". • for BE Mechanical students on 23/9/2016 • **Resource Person:-** Prof. T. T. Kapade, Asst. Prof., Mech. Engg. Dept., MCOERC, Nashik
2	• Expert Talk on "Energy Audit - Practices & Legal Aspects". • for BE Mechanical students on 04/10/2016 • **Resource Person:-** 1. Er. Ajit S. Datar, Energy Auditor, PCRA Mumbai. 2. Prof. Asha A. Datar, Thane Law College, Thane.
3	• Two day workshop on "Stress Management, Personality Development and Study Skills". • for SE Mechanical Students on 10th & 11th August 2015. • **Resource Person:-** Mr. Kiran Mohite, Motivational Trainer, Muktangan Institute of Training & Facilitation, Nashik
4	• "Seminar on Industrial Automation" • For BE Mech Students on 27/09/2016. • **Resource Person:-** Mr. Mahesh Rasal from TAACT, Nashik.

33. **Teaching methods adopted to improve student learning**

- All the classrooms equipped with DLP Projector with screen.
- Sectional and demonstration models, Practical Instruments or Machinery, kits and Charts.
- Technical Videos (NPTEL)
- Black board Methods
- OHP Method

34. **Participation in Institutional Social Responsibility (ISR) and Extension activities**

- Cashless awareness by students in villages during winter vacation.
- Tree plantation and their preservation.
- Cleaning of campus on 2nd Oct., each year.
- Cleaning of garbage and food waste of program on 8/1/2017 by S.E. Mechanical Engineering students.

35. **SWOC analysis of the department and Future plans**
    A) SWOC analysis of the department

Strengths :	Experienced and Dedicated Faculty	Well Equipped Laboratories	Good Computation Facility	Good Classrooms	
Weaknesses :	Poor Research	Less Industrial Exposure	Insufficient Research Fund	Poor Record Keeping	Poor Students Input
Opportunities :	Young Faculty	Motivation of Students	Good Social Projects	Good Library	
Challenges :	Admission Threat	Students Quality	Placement of Students	Social Recognition	

B) Future plans

- **Long term plans :** To create world class learning centre with interaction of world class education Institutions and Industries

- **Short term plans :** To attract good quality student for admission and learning

Department of Master of Business Administration

1	**Name of the department**	Master of Business Administration (MBA)
2	**Year of Establishment**	2010
3	**Names of Programmes/Courses offered (UG,PG,M.Phil.,Ph.D.,IntegratedMasters;IntegratedPh.D.,etc.)**	PG: Masters Degree
4	**Names of Interdisciplinary courses and the departments/units involved**	Marketing Mgt, Finance Mgt, HRM etc
5	**Annual/semester/choice based credit system(programme wise)**	Semester choice based Credit System
6	**Participation of the department in the courses offered by other Department**	Soft Skills (Computer, Civil and E&TC Dept)
7	**Courses in collaboration with other universities,industries,foreigninstitutios, etc.**	Nil
8	**Details of courses/programmes discontinued(if any)with reasons**	NIL

9. Number of Teaching posts

	Sanctioned	Filled
Professors	1	0
AssociateProfessors	2	0
Asst.Professors	5	8

10. Faculty profile with name, qualification, designation, specialization,(D.Sc./D.Litt./Ph.D. /M.Phil.etc.)

Name	Qualification	Designation	Specialization	No of years of Experience	No of PhD.Students guided for the last 4 years
Mr.Kasar U S	BCS MBA(Mktg)	Asst Prof & Head	Marketing Management	13	NIL
Mr. H K Padmanabhan	Mcom,MMS (HR)	Asst Prof	Human Resource Management	10	NIL
Miss Lassi L R	MBA (Finance)	Asst Prof	Financial Management	6	NIL
Mr. Kapse P A	MBA (Mktg)	Asst Prof	Marketing Management	6	NIL
Mr.Thorat R G	MBA (Fin)(Mktg)	Asst Prof	Financial Management	10	NIL
Mr Barkale M S	MBA (Mktg) (HR)	Asst Prof	Marketing Management	8.5	NIL
Miss Fulfagar S P	MBA (HRM)	Asst Prof	Human Resource Management	0	NIL
Miss Fulwani M	MBA (Finance)	Asst Prof	Financial Management	0	NIL

List of senior visiting faculty
1. Dr. V.M. Govilkar, CA & Economist.
2. Mr. Pradeep Ghare, Director Catalyst Pvt. Ltd, Nashik
3. Mr. Anand Chandak, CA, Lasalgaon
4. Mr. D.A.Dagade, CA.
5. Ms. Kajal Bhandari,CA.
6. Mrs. Uma Modi

12.   Percentage of lectures delivered and practical classes handled (programme wise) By temporary faculty: NIL

13.   Student-Teacher Ratio (programme wise)

Total Strength PG	Total no of Staff	Student Teacher ratio
120	08	15:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Sr	Type of Staff	Sanctioned	Filled

No			
1	Supporting Staff(Technical)		--
2	Administrative Staff		--
3	Peon		**01**

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG
>>>Refer Question No 10

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received

No of Faculty	Funding Agency	Grants Received (Rs.)			
		2012-13	2013-14	2014-15	2015-16
-	-	-	-	-	-

17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc .and total grants received

Funding Agency	Total No of project	Sanctioned Amount
-	-	-

Funding Agency	Proposed	Total Grant Received
-	**-**	**-**

18. Research Centre/facility recognized by the University: NIL

19. Publications:

Year	Conference Publications	Journal Publications
2013-14	1	2
2014-15	2	3
2015-16	3	2
2016-17	1	3

20.   Areas of consultancy and income generated :   NIL
21. Faculty as members in
a) National committees b) International Committees c) Editorial Boards: NIL.

22. Student projects

a) **Percentage of students who have done in-house projects including inter departmental/programme**

Year	%Inhouse Projects /Dissertation
2015-16	100%

b) **Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies**

Year	% Industry Projects
2015-16	100%

23. Awards/Recognitions received by faculty

1. Mr. U.S.Kasar **….** Best Teacher Award, Dr. Ajeenkya D.Y. Patil University, Pune 2015-16
2. Mr. M.S.Barkale **….** Best Teacher Award, Dr. Ajeenkya D.Y. Patil University, Pune 2015-16

Awards/Recognitions received by Students

3. **Radheshyam Daga ….**Student of MBA-II 2012-14 Batch has represented University of Pune for "Awishkar" at state Level in year 2014 at Jalgoan.

24. List of eminent academicians and scientists/visitors to the department

1) **Mr. Dev Dutt Jha – Scientist F, Head BIS Mumbai**
2) **Dr. Prashant Warke – Director, Godavari Institute of Management, Jalgaon.**
3) **Dr. Shriram Nerlekar – Director, Maratha Mandal, Pune**
4) **Mr. Sumeet Dey – Director, Scout Technologies, Bangalore.**
5) **Mr. Praveen Babu – AGM, Findability Sciences Ltd, Mumbai.**
6) **Mr. Chandrashekar Tilak, NSDL Mumbai.**
7) **Dr. Seema Joshi, Director NMU, Jalgaon.**
8) **Dr. S.L.Kumbhare, Former CGM NABARD, Mumbai.**
9) **Mr. Alok Mishra, Project Officer, MCED Nashik.**

25. **Seminars/Conferences/Workshops organized & the source of funding**
   A. National B. International

	Name of Seminars/Workshop/Conferences	Funding Agency
1	Dynamism in Management	SPPU

26. **Student profile programme/course wise:**

Year	Admission in First Year	Enrolled		Percentage Female
		Male	**Female**	
2012-13	**54**	34	20	37%
2013-14	**56**	30	26	46%
2014-15	**46**	29	17	37%
2015-16	**60**	34	26	43%
2016-17	**50**	**28**	**22**	44%

27. **Diversity of Students**

Name of the Course	%of students from the same state	%of students from other States	%of students from abroad
MBA(2016-17)	98%	02%	00%

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Academic Year	Name of Examination	No of Students
2015-2016	**IBPS**	**00**

28. Student progression

	Student Progression %
UG to PG	-
PG to Mphil	-
PG to Ph.D	-
Ph.D to Post. Doctoral	-
Employed	
1) Campus Selection	**44%**
2) Other than Campus Recruitment.	**33%**
Entrepreneurship/Self Employment	**9%**

30. **Details of Infrastructural Facilities**
    a) **Library:** 01

    b) **Internet facilities for Staff & Students:** 100mbps speed

    c) **Class rooms with ICT: 02+01(Tutorial Room)**

    d) **Laboratories: 01**

31. **Number of students receiving financial assistance from college, university, Government or other agencies**

Year	No of Students receiving financial assistance from		
	College	University	Other Agencies
2015-16		04	

32. **Details on student enrichment programmes (special lectures/workshops/ Seminar) with external experts**

2013-14

Sr No	Date	Name of Program	Name of Expert	Target Audience
1	26/8/2013	"Induction for MBA first year"	Shrikant Bachhav	MBA-I
2	17/9/2013	Soft Skills	Pradeep Ghare	MBA-I & II
3	5/10/2013	Personality Development	Pradeep Ghare	MBA-I & II
4	19/10/2013	Current scenario of Indian Economy	Chandrasekhar M. Tilak	MBA-I & II
5	25 & 26/10/2013	Capital Gains	Anand Chandak	MBA-II
6	29/1/2014	Career Avenues in Management	Yogesh Gosavi	CET Appearing Students
7	February 8th and 9th, 2014.	"Innovative Teaching Methods of B-School"	Dr.Seema Joshi Mrs.Asmita Joshi Miss. Sapna Karia	MBA-I & II
8	17/2/2014	Soft Skills	Pradeep Ghare	MBA-I & II
9	11th & 12th March 2014	"Indirect Tax"	Mr.Anand Chandak	MBA-I & II

2014-15

Sr No	Date	Name of Program	Name of Expert	Target Audience
1	14.8.2014	System Application & Products	Mr. Sushil Salve	MBA-I & II
2	20.9.2014	Financial Planning	Mr.Darshan Lodha	MBA-I & II
3	17.10.2014	Schedule VI of Companies Act 1956	Mr.Anand Chandak	MBA-I & II
4	10/2/2015	Innovations in Rural Finance	Dr. Suresh Kumbhare	MBA-I & II
5	18/2/2015	Inter college debate competition	__	Other College MBA Sudents
6	26/2/2015	Career Avenues in Management	Dr. Yogesh M. Gosavi	CET Appearing Students
7	9/3/2015	Share Market	Prof. Pankaj Kapse	MBA-I & II

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Sr No	Date	Name of Program	Name of Expert	Target Audience
1	4/9/2015	Current issues on Global Economy	Dr.V.M.Govilkar	MBA I & II
2	8/9/2015	Introduction to	Mr.Darshan	MBA II

		IRDA	Lodha	
3	24/9/2015	Employability Skills – Invest in Yourself	Mr.Pradeep Ghare	MBA I & II
4	7/10/2015	Workshop on Schedule 6	Mr.Anand Chandak	MBA I
5	10/10/2015	Session on introduction to training modules by GK Tech Enterprises	GK Tech Enterprises Team	MBA II
6	17/10/2015	Life Insurance Market in India	Mr.Kiran Chakor	MBA I & II
7	30/1/2016	NSE Training Programmes	Mr.Deepak Aher	MBA I & II
8	11/2/2016	Investment Awareness Programme	HDFC Team	MBA I & II
9	16/02/2016	Session on Dr.Kalam's autobiography & India vision 2020	Mr.Mahendra Patil	UG & PG Students
10	17/02/2016	Career Avenues in Management	Prof.P.A.Kapase	UG Students
11	18/03/2016	Review on Budget 16	Prof.D.A.Dagade	MBA I & II
12	6/3/2016	One day workshop for MBA CET 2016	MBA staff	CET appearing students

33. Teaching methods adopted to improve student learning

All the classrooms equipped with Projector.
Continuous Learning, Activity Based Learning,
Online Journal, Black board Methods, Case study method, Surveys, Industrial Visits, IQAC

34. Participation in Institutional Social Responsibility (ISR) and Extension Activities

1. Awareness of 'Managerial Skills' to different Colleges by Staff.

35. SWOC analysis of the department and Future plans

Strength: Administrative Practices, Teaching Process & Record, Cost of doing MBA at SNJB is very less as compared other management schools.

Weakness: Quality of students enrolling in the course is weak which makes it difficult to mould them in industry ready graduates, Students Communication ability, Industry Awareness among Student is less as distance from Industrial section is more.

Opportunity: Try to be unique as strong academic and quality placement institute with more than 50% Females admitted, Placements increasing year by year with increases in quality due to strong academic, Take opportunity of less Fees and competition to admit maximum students.

Challenges: Generating New Admissions from rural area, Changes in Admission Process being in rural area & Minority Institute, Changing perception of MBA aspirants about usefulness of MBA course of rural Students, Bridge GAP Between Industry And Institute with minimum time and changing rules and exam pattern as being in rural area.

Future Plans: Focus on Strong Academic and good Placements by Acquainting students with Industry required skill through Exposure (visits , Short survey, mini projects)