



SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

**RAJGAD DNYANPEETH'S , SHRI CHHATRAPATI
SHIVAJIRAJE COLLEGE OF ENGINEERING**

**GAT NO.237, PUNE - BANGALORE HIGHWAY, DHANGAWADI, TALUKA -
BHOR, DIST - PUNE**

412206

www.rajgad.org.in

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

About the Trust:

The trust “**Rajgad Dnyanpeeth, Bhor**” is established in 1972, at foot of Rajgad Fort , by Hon’ble Anantrao Thopte, the Former Education Minister, Maharashtra State, as the Founder President. The trust is formed with wider object of bringing about intellectual awakening and transformation in education, economics, cultural and social field of Maharashtra as well as the poor and needy families of the hilly areas. The Trust provides education from KG to PG to the students in various disciplines through Twenty Four primary schools, Twenty Two High schools, Five Junior colleges, Senior College (B.A. & M. A., B.Com. & M.Com., B. Sc. & M. Sc. With research center), Pharmacy (D. Pharm., B. Pharm., & M. Pharm. with research center), Computer Science (B.C.A., B.C.S. & M.C.S.), Agricultural Sciences, Education (D. Ed, B. Ed, M. Ed.), Management (M.B.A) and Polytechnic. At present more than 11000 students are taking educations in Institutions of Rajgad Dnyanpeeth.

About the Institution:

Rajgad Dnyanpeeth’s **Shri Chhatrapati Shivajiraje College of Engineering** is established in 2009, approved by AICTE, New Delhi, recognized by Directorate of Technical Education (Government of Maharashtra) and affiliated to Savitribai Phule Pune University, Pune. Institute is centrally located in the prime area where several MIDC zones are well established and is spread across a sprawling meadow of over 23 acres, near Pune-Bengaluru National Highway (NH-4) exactly 45 Km from Pune railway station and 57 Km from Pune Airport at Dhangawadi, Pune.

At the Institute, the efforts are projected to meet expectation of students in line with the vision of the Institute. The valuable inputs of Board of Governors (BoG) play vital role in the Institute development. College Development Committee (CDC) and Internal Quality Assurance Cell (IQAC) have active participation in academic planning and development. Principal is assisted by various Heads of Department (HoD’S), Adjunct Professors, Office Head who plans for new academic and administrative initiatives in consultations of CDC and IQAC.

Vision

Excellent Institution for Education, Training and Research in Engineering.

Mission

1. Develop competent engineers along with professional skill and responsible citizen.
2. Foster knowledge and technical skill of the highest standards to develop sustainable engineering solution.
3. Prepare engineers to respond to needs if the industry, higher studies and research through industry and institute interaction.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

1. Committed and motivated faculty working towards institution's growth.
2. Highly co-operative and encouraging management inclined towards fulfilling the vision.
3. State of art infrastructure and campus located amidst lush green environment.
4. Students centric methodology employed for their all round development.
5. Infrastructure comprises of a huge playground.
6. Co curricular and extracurricular activities incorporated for upliftment of the students.
7. Transport facility covers micro interiors and in campus hostel facility.
8. Ventilated, specious and well equipped laboratories.
9. Promoting social awareness among students through NSS activities.

Institutional Weakness

1. Campus placements are limited.
2. Soft skills and personality development is a major concern among the students.
3. Curriculum has limited interdisciplinary approach.
4. Research and patent exposure among the students & faculties is minimal.
5. Limited number of activities pertaining to consultancy.

Institutional Opportunity

1. Work towards improvement in research domain and acquire grants from funding agencies like AICTE, DST, University etc.
2. Incorporate interdisciplinary and appropriate technologies for the development of students.
3. Target research publications in high impact factor national and international
4. Seek improvement in faculty cadre ratio.
5. Collaborating with foreign universities for organizing exchange programs for the betterment for students.

Institutional Challenge

1. Improve the admissions of high meritorious students.
2. Work on reducing the gap between the Industry (current technology) and Academics.
3. Focus on increasing the placements in core companies.
4. Motivate the students to participate in Add on activities and various competitive exams.
5. Pursue students towards self employment.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engineering (SCSCOE) is affiliated to Savitribai

Phule Pune University, Pune (SPPU). Institute follows its curriculum in all aspects as per SPPU, Pune, for envisioning its aim and objectives by imparting quality technical education with the need of wide exposure to recent technological intervention through various modes. Expertise faculty enthusiastically participates in university level activities such as syllabus setting, examination work and other co-curricular activities notified by university time to time.

For effective delivery of curriculum, higher authorities and senior faculty plays a vital role in preparing and executing academic calendar of all activities to be conducted in institute throughout the academic year.

Besides regular teaching-learning process, institute motivates students to participate in co-curricular and extracurricular activities. It also provides platform by organizing workshops, seminars, conferences, project competitions, sports and national festival celebration.

To bridge away the Curriculum-Industry gap, expert lectures, technical and non technical add on programs are effectively imparted by institute, thereby nurtures the overall growth of students.

Students are also motivated to do work that helps them to understand their social and ethical responsibilities towards society. Such activities are carried out by institute's NSS cell, Women cell and also under respective departments itself.

Being part of society, institute always stays in touch with stakeholders (viz. alumni, teachers, parents, students and employers) who are the building blocks of institute. Feedback of stakeholders is always welcomed by institute and their suggestions are considered for continuous improvement of Institute.

Teaching-learning and Evaluation

The teaching learning process of institute designed by taking into consideration merit of students admitted through centralized admission process. As students come from different socio- economic and academic backgrounds, learning categories of students are understood by considering marks in qualifying examination, Savitribai Phule Pune University, Pune (SPPU) examinations, and depend on level of special assignments designed for them. For slow learners, remedial classes are organized to encourage them. Advanced learners are motivated to participate in technical competitions like Avishkar, Hackathon, Hybrid car design etc. and counseling sessions get organized. Teaching in institution is carried out with use of PPTs, interactive board teaching, giving analogies and Group Discussion.

Institute uses various innovative teaching learning processes like e-resources, quiz and different technical events to groom the skills of students. The institute has qualified & experienced who will be a good resource for particular area.

The Evaluation Process is outcome based, transparent and robust. Evaluation Process comprises of different processes like unit test, attendance record, prelim exam marks, performance in regular practical, theory assignments etc. Continuous evaluation is one of important aspect in evaluation. Grievances if any are addressed at department level by HOD and at college level by principal. Mock Practical oral examinations are carried out to boost confidence of student in university practical examination.

Research, Innovations and Extension

Institute has started research and development cell (R & D Cell), chaired by the principal, industry member and senior faculty members from each department as resource person. Research and Development Cell have initiated its action plan to encourage the faculties as well as students to conduct research based activities. The aim and objectives of Cell is to promote faculty members and students as well to conduct research survey in and around industries in order to cater the needs to resolve associated industrial problems. The institute organizes various workshops, guest lectures, conferences for enlightening the research environment. Institute has also established Institution Innovation Cell (IIC) as per guide lines of AICTE, New Delhi and MHRD to promote entrepreneurship through Industry Institute Interaction.

The institute provides financial support to all the faculties to attend Workshop, STTP etc. Financial support to the student group to participate in Smart India, Hackathon, SUPRA, Hybrid Vehicle Competition etc. More than 300 research journal papers have been published in last five years.

The institute is also actively participated in extension activities to address various social issues for their holistic development. Institute has given the platform to students to conduct social actives in rural areas under the National Service Scheme (NSS) unit of Savitribai Phule Pune University, Pune. Besides this, institute have organized blood donation camps, Swachha Bharat Swastha Bharat Abhiyan, Road Safety awareness camp, Fire Safety Program, Tree plantation, Yoga day, Free PUC checkup camp, Computer literacy program for school children in the rural area etc. and also Hemoglobin Check up, Guest lecture on Self Defense -Sexual Harassment and reaction Program under Vidhyarthini Arogya Prabodhan Program of SPPU. The institute have signed more than 15 Memorandum of understanding for organizing student-centric activities.

Infrastructure and Learning Resources

Shri Chhatrapati Shivajiraje College of Engineering is located in a lush green environment on Pune-Bangalore highway, 35 Kms away from Pune city making it easy and convenient for the rural-urban students and staff transportation.

The facilities provided to the students and staff begins with 11 buses running from various locations. The infrastructure comprises of instructional area such as 15 Classrooms, 30 Laboratory, Seminar hall, Language Lab, Computer-Centre, Central Library, Separate Workshop building, X category workshops. Amenities area, Cafeteria's and Mess. The campus in-houses Boys Hostel having accommodation capacity of 250 students. Each room in the hostel is well furnished and also has attached washroom facility. Similarly a well-furnished Girls Hostel is located in Bhor. It accommodates 250 girls. A separate bus facility is provided for the hostel girls.

A huge Playground of area 35600 sq. mtr is located at the entrance. Separate parking facility for buses, staff and student vehicles is provided.

A huge library with the provision of 2450 book titles, 9692 volumes, 24 national journals and 12 International Journals is available. Digital Library comprising of 10 computers is also available. Necessary E-Learning material such as e-journals, e-books is available in digital library. The Library has institutional membership of NDL, British Library and Jaykar Library. The library is functional beyond normal working hours during exams. Separate newspaper section for readership. In reference section, along with reference books previous years university question papers are available.

Computer center has 75 PC's. Wi-Fi routers and switches are made available on every floor. Institution houses

sufficient number of PC's and high speed server. A 60 Mbps leased line is provided in the campus.

Lift and ramp for the differently abled students are available. Drinking water coolers with filters are made available on every floor. Clean washrooms with basic amenities like hand wash and mirrors are included. Ladies and boys common rooms are also available. Campus is under CCTV Surveillance 24/7 and also a team of dedicated security guards.

A separate maintenance team under the guidance of authorities is dedicatedly involved to maintain the infrastructure. Adequate budget is sanctioned annually for maintenance purpose.

Student Support and Progression

Foundation of Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engineering (RD's SCSCOE) is for the progression and overall development of students. RD's SCSCOE has effectively implemented excellent activities relevant to academic, co-curricular and extracurricular areas for the students. Government schemes like freeship and scholarship for student from various categories like OBC, SC-ST, NT, and EBC are implemented successfully. Along with this the institution helps the needy and economically weak students by giving concession in tuition fees, hostel and transport facility. The institution has its own intelligent Teacher – Guardian (TG) Cell which works to solve students issues not only at academic level but mentoring them in personal issues and career guidance.

Training and Placement cell (T &P) plays vital role in shaping up the career goals of the students. Institution's T& P cell working actively for the students to provide platform to get selected in industries. T & P cell have Signed MoU with industries in its purview. Student internship program and future recruitment are the activities conducted under MoU. It helps the students to enhance their employability skills by arranging activities in the area of aptitude test, personality development, group discussion and interview skills. Various guest lectures and seminars are arranged for the students to prepare for the examinations like GATE/MPSC/UPSC/TOEFL etc.

Institution has an active student council which provides the students various opportunities to develop leadership by organizing and carrying out college activities. It provides platform for students to represent on academic and administrative bodies and in various committees. Through this council students are able to represent themselves on various bodies like IQAC, Sport, Cultural and NSS, etc. The student's council helps to share student's ideas, interest and concern in many activities. The institution organizes well awaited annual function "ANANT MAHOSTAV" and technical event "NIRMAL TECHFEST" to provide an opportunity to students to explore their hidden talent.

Alumni Association has been registered by institution which regularly organizes alumni meet. The alumni give their precious guidance to present students about current trends in industries and industry requirements. An alumnus guides the students to become an employable Engineer.

Governance, Leadership and Management

The vision of the Institute is Excellent Institution for Education, Training and Research in Engineering. The distinctive characteristics of the institute are defined in the mission statement reflects the terms of addressing the need of society, student, institutes values orientation. Institute has various cells, bodies and committees comprising of principal, department heads and faculty members to ensure the enhancement of academic and

administrative activities. The institute provides the opportunities to all the participating in the decision making and implemented by participative management. The strategic plan of the institution has made to meet the requirement of industry and society through assured education with well developed infrastructure to get the technical as well as academic excellence. The institution takes efforts for recruitment of experienced faculties through established procedures and policy.

E-governance is implemented in various areas of operations like administration, examination, planning and development, finance and account, student admission and support.

The institution provides various facilities to faculty members for upgradation such as leave for pursuing higher studies, financial assistance to attend seminar, conferences, STTP, technical competition, workshops, and laboratory development. A systematic performance appraisal system for evaluation of faculty members is carried out every year by academic monitoring committee along with head of department which includes faculty attributes and co curricular contribution, research and development contribution, teaching learning activities etc.

The Internal and external audits are carried out once in an every financial year for income and expenditure of the institution. After receiving the budget from each department, cumulative annual budget of institution is prepared. Management conducts the regular meetings with the principal about the requirements of the institution.

Internal Quality Assurance Cell (IQAC) of the institution has mechanism for academic auditing and adopting quality management strategies in all academic administrative aspect through which various quality initiatives have been implemented in the institute.

Institutional Values and Best Practices

The Institute has conducted various programs in accordance with the gender equity promotion such as Dahi-Handi utsav, Women's day, Session on Self Defense - Sexual Harassment and Reaction, Women Empowerment, Personality Development etc. The institute is committed to sensitize the students on gender equality through various facilities such as safety and security, students insurance policy, counselor, anti-ragging cell, rector for hostel, transport facility. Guardian-Teacher activity is conducted by faculty which helps to improve the student progress. The institute has conducted an energy audit and green audit measures to reduce energy consumption. The institute has managed all kind of waste such as solid waste, liquid waste, e-waste. Solid waste is managed through biogas plant of 30 Kg. daily feeding capacity, which converts canteen waste into fuel. Liquid waste managed through septic tank and e-waste donated to the authorized dealer.

The institute has installed a rainwater harvesting system in the campus. The institution is located in a pollution free area which is surrounded by greenery and mountains. The institute creates awareness about Environment among the students. Faculty is inculcated through various events such as Tree plantation, paperless communication, using Bicycle and using transport system. The free area of campus is utilized for a garden and tree plantation. The Institute promotes plastic free campus and paperless office. Institute uses Biometric Attendance System and ERP Software. The institute provided facilities for Differently abled (Divyanggan) like ramp, lift, physical facilities, rest rooms, and scribes for examination. The institute has a locational advantage for students such as for industrial visit, pollution free campus, transport facility. Campus is near to National Highway (NH-4), which facilitates easy transport. Institute initiatives taken to engage with and contribute to local community like various activities such as blood donation camp, save girl campaigning, historical place

cleaning, election literacy club, fire safety program, Digital India campaigning. Code of conduct handbook is available for students, teachers, governing body and principal. Core values of the institute are displayed on the website.

Two best practices successfully implemented by the institution are –

1. Reach to Unreached
2. PRO-CON

NAAC

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	RAJGAD DNYANPEETH'S , SHRI CHHATRAPATI SHIVAJIRAJE COLLEGE OF ENGINEERING
Address	Gat No.237, Pune - Bangalore Highway, Dhangawadi, Taluka - Bhore, Dist - Pune
City	PUNE
State	Maharashtra
Pin	412206
Website	www.rajgad.org.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Sanjay Bapuso Patil	02113-282556	9970397696	02113-282656	principal@rajgad.edu.in
Associate Professor	Sanjaykumar I Nipanikar	02113-222710	8459909962	02113-222835	sin.rdtc@gmail.com

Status of the Institution	
Institution Status	Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details	

Date of establishment of the college	15-06-2009			
University to which the college is affiliated/ or which governs the college (if it is a constituent college)				
State	University name	Document		
Maharashtra	Savitribai Phule Pune University	View Document		
Details of UGC recognition				
Under Section	Date	View Document		
2f of UGC				
12B of UGC				
Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)				
Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	04-04-2018	12	

Details of autonomy	
Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	Yes autonomydoc_1557819471.pdf
If yes, has the College applied for availing the autonomous status?	No

Recognitions	
Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	No

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	Gat No.237, Pune - Bangalore Highway, Dhangawadi, Taluka - Bor, Dist - Pune	Rural	15	18735

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BE,Computer Engineering	48	HSC	English	60	32
UG	BE,Mechanical Engineering	48	HSC	English	120	23
UG	BE,Civil Engineering	48	HSC	English	60	18
UG	BE,Electronics And Telecommunication Engineering	48	HSC	English	60	6

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	6				13				41			
Recruited	1	0	0	1	0	0	0	0	13	6	0	19
Yet to Recruit	5				13				22			
Sanctioned by the Management/Society or Other Authorized Bodies	0				8				38			
Recruited	0	0	0	0	6	2	0	8	25	13	0	38
Yet to Recruit	0				0				0			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				45
Recruited	43	2	0	45
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				22
Recruited	19	3	0	22
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	1	0	0	0	0	0	0	0	0	1
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	13	6	0	19

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	1	0	0	0	0	0	1
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	5	2	0	25	13	0	45

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties					
Number of Visiting/Guest Faculty engaged with the college?	Male		Female		Total
	0	0	0	0	0

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
		UG	Male	477	5	0
	Female	230	1	0	0	231
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years					
Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	23	18	14	15
	Female	9	5	3	1
	Others	0	0	0	0
ST	Male	0	1	1	0
	Female	0	0	0	0
	Others	0	0	0	0
OBC	Male	7	36	22	26
	Female	18	9	3	7
	Others	0	0	0	0
General	Male	176	198	158	125
	Female	81	82	51	32
	Others	0	0	0	0
Others	Male	15	27	16	13
	Female	7	4	1	3
	Others	0	0	0	0
Total		336	380	269	222

3. Extended Profile

3.1 Program

Number of courses offered by the institution across all programs during the last five years

Response: 295

File Description	Document
Institutional Data in Prescribed Format	View Document

Number of programs offered year-wise for last five years

2017-18	2016-17	2015-16	2014-15	2013-14
4	4	4	4	4

3.2 Students

Number of students year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
849	838	942	851	971

File Description	Document
Institutional Data in Prescribed Format	View Document

Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14

File Description	Document
Institutional Data in Prescribed Format	View Document

Number of outgoing / final year students year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
146	211	259	204	236

File Description	Document
Institutional Data in Prescribed Format	View Document

3.3 Teachers

Number of full time teachers year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
80	84	88	92	96

File Description	Document
Institutional Data in Prescribed Format	View Document

Number of sanctioned posts year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
82	85	85	82	92

File Description	Document
Institutional Data in Prescribed Format	View Document

3.4 Institution

Total number of classrooms and seminar halls

Response: 16

Number of computers

Response: 307

Total Expenditure excluding salary year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
165.14	422.5	344.4	282.8	280.8

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1 The institution ensures effective curriculum delivery through a well planned and documented process

Response:

- Rajgad Dnyanpeeth's Shri. Chhatrapati Shivajiraje College of Engineering has been established in 2009-10 and it is affiliated to Savitribai Phule Pune University, Pune (SPPU), so it follows the curriculum given by SPPU University.
- At the start of each semester Principal calls the meeting of all Departmental Heads, Academic Dean, Cultural Secretary and different committee heads to plan the academic calendar of Institute by using the guidelines from SPPU calendar.
- The calendar is finalized by Academic Dean and is distributed to all departments to prepare Departmental calendar.
- Before preparation of Departmental academic calendar and commencement of next semester, faculty gives the presentation for elective subjects to the final year students which help them to choose best elective which are considered while taking subject choices from every faculty.
- The load distribution is carried out by HOD that is based on Choice of faculty, faculty experience, qualification; number of times subject taught by corresponding faculty.
- Also every faculty plans for seminars / workshops and guest lectures they want to conduct during the semester.
- The teachers are encouraged to attend FDPs, STPs, STTPs for enhancing their skills and knowledge within vacation period.
- Before starting of teaching, every faculty member prepares the course file, lesson plans, practical plans, tutorial plans and laboratory manuals.
- **Course File Contents** are as follows Vision & Mission of Department, Co's and Po's of the subject, Subject Timetable, Academic Calendar (Department/ Institute), Syllabus of subject, Notes / ppts, Question papers (internal and University exam), Model answers, Question bank, Result analysis.
- **Curriculum Deployment:**
 - Time table is prepared for every department and after finalizing it by corresponding HOD and Principal it is displayed on department's notice board, ERP and Google Apps.
 - Course file, lab manuals are prepared by faculty before start of every semester and get checked by AMC of each department.
 - Seminars, workshops and guest lectures, industrial visits are arranged for improving skill set & knowledge of students and also to aware the students about current requirements and demands of industries as well as society.
 - After every month student attendance and defaulter list is displayed.
 - Parents are informed about the attendance, marks of unit test, online exams, test conducted; through SMS/ telephone conversation and at the time of Parent Meet.

- For slow learners extra lectures are arranged as per need, different level assignments are given to students also remedial classes are arranged for those.
- For the subject having term work, continuous assessment activity is done by faculty.
- Teacher guardian scheme is allotted for 15-20 students to solve all issues of the students.
- The central library as well as departmental library provides the book facility to the students.
- The final year students are encouraged for sponsored projects, also they are motivated to do the internship.
- Feedback is taken form stakeholders regarding curriculum and facilities provided by the institute, which are welcomed and corrective measures are done by corresponding authorities.
- Feedback for effective teaching learning is taken from students, and their suggestions are conveyed to the faculty members.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

1.1.2 Number of certificate/diploma program introduced during the last five years

Response: 0

1.1.2.1 Number of certificate/diploma programs introduced year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

File Description	Document
Details of the certificate/Diploma programs	View Document

1.1.3 Percentage of participation of full time teachers in various bodies of the Universities/ Autonomous Colleges/ Other Colleges, such as BoS and Academic Council during the last five years

Response: 12.5

1.1.3.1 Number of teachers participating in various bodies of the Institution, such as BoS and Academic Council year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
04	03	02	02	00

File Description	Document
Details of participation of teachers in various bodies	View Document
Any additional information	View Document

1.2 Academic Flexibility

1.2.1 Percentage of new Courses introduced out of the total number of courses across all Programs offered during last five years

Response: 100

1.2.1.1 How many new courses are introduced within the last five years

Response: 295

File Description	Document
Minutes of relevant Academic Council/BOS meetings.	View Document
Details of the new courses introduced	View Document
Any additional information	View Document

1.2.2 Percentage of programs in which Choice Based Credit System (CBCS)/Elective course system has been implemented

Response: 100

1.2.2.1 Number of programmes in which CBCS/ Elective course system implemented.

Response: 4

File Description	Document
Name of the programs in which CBCS is implemented	View Document
Minutes of relevant Academic Council/BOS meetings.	View Document
Any additional information	View Document

1.2.3 Average percentage of students enrolled in subject related Certificate/ Diploma programs/Add-on programs as against the total number of students during the last five years

Response: 46.65

1.2.3.1 Number of students enrolled in subject related Certificate or Diploma or Add-on programs year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
753	571	257	108	354

File Description	Document
Details of the students enrolled in Subjects related to certificate/Diploma/Add-on programs	View Document
Any additional information	View Document

1.3 Curriculum Enrichment

1.3.1 Institution integrates cross- cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum

Response:

I] Gender Issues:

Institute has formed Women's Grievance cell/ Internal Complaint Committee (ICC) from 2013 as per "Vishaka Act" for redressal of Woman against sexual harassment prevention at workplace. This cell helps to maintain such environment in campus between students, teaching staff & non teaching staff without gender discrimination through various seminars.

As per guidelines of AICTE, DTE, Government of Maharashtra and SPPU, Institute follows the rules and regulations for reservation of male and female candidates. Institute Women Grievance Cell/ICC creates awareness among women against sexual harassment by organizing workshops, seminars, guest lectures, celebration of International Women's Day etc..

Institute organizes health check up camp for girl students in association with "Vidyarthini Arogya Prabodhan" cell of SPPU, Pune.

II] Environment and Sustainability:

Institute conduct events to maintain environment sustainability such as Tree plantation, Swachha Bharat Abhiyan and World environment day etc. Institute takes initiatives for paperless work through biometric attendance and Enterprise Resources Planning (ERP). To adopt green methods institute encourages students to submit or present digital records instead of hard copies of submission. Sustainability is achieved by reducing E-waste, implementing green technologies, adopting energy efficient technologies such as solar heaters at hostels and Solar electricity generation to save electricity.

Rain water harvesting is used as the storage of rainwater for reuse on-site, rather than allowing it to run off.

Rainwater is collected from roofs, the water collected is redirected to a pit, a reservoir with percolation with nets or other tools. This water is used for gardening purpose.

Basic civil and environment engineering course subject has offered knowledge regarding ecology and sustainability to student by making posters and presentation on environment and energy.

Institute offers Audit course to students such as Road Safety, Water management, to aware student about ecology and ecosystem to improve Environment sustainability etc. The water is efficeintly used in csmpus by installing Drip irrigation & sprinkle irrigation.

As Environment sustainability is one of the global issue, hence to focus on control of air pollution Institute has conducted free pollution check up camp of Vehicles, also provided transport facility for student as well as for staff. Institute conducts Green and Energy audit to save electricity.

III] Human Values:

To maintain human values is one of the important motto of institute. To maintain social values Institute conduct events such as Blood donation camp, survey of education in rural areas, celebration of Yoga day, medical check-up camp for newly admitted students, road safety and Shivjayanti. Every year Institute celebrates Teacher's Day, Engineer's Day, Yoga Day. NSS Unit of our institution is conducting seven days camp since last three years in in nearby villeges in association with SPPU, Pune.

IV] Professional Ethics:

Personality development programs are organized for students. Also programs for Creating awareness of cashless economy and Election literacy are organized by the Institute. Students of our institute have made a short film in association with Spandan Group, Mumbai" on "Democrezy" which encourages of their inborn talent.

File Description	Document
Any Additional Information	View Document
Link for Additional Information	View Document

1.3.2 Number of value added courses imparting transferable and life skills offered during the last five years

Response: 10

1.3.2.1 Number of value-added courses imparting transferable and life skills offered during the last five years

Response: 10

File Description	Document
Details of the value-added courses imparting transferable and life skills	View Document
Brochure or any other document relating to value added courses.	View Document
Any additional information	View Document

1.3.3 Percentage of students undertaking field projects / internships

Response: 11.54

1.3.3.1 Number of students undertaking field projects or internships

Response: 98

File Description	Document
List of students enrolled	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document

1.4 Feedback System

1.4.1 Structured feedback received from 1) Students, 2) Teachers, 3) Employers, 4) Alumni and 5) Parents for design and review of syllabus-Semester wise/ year-wise

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: A. Any 4 of the above

File Description	Document
Any additional information	View Document
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	View Document
URL for stakeholder feedback report	View Document

1.4.2 Feedback processes of the institution may be classified as follows:

A. Feedback collected, analysed and action taken and feedback available on website

B. Feedback collected, analysed and action has been taken

C. Feedback collected and analysed

D. Feedback collected

Response: A. Feedback collected, analysed and action taken and feedback available on website

File Description	Document
Any additional information	View Document
URL for feedback report	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average percentage of students from other States and Countries during the last five years

Response: 0.09

2.1.1.1 Number of students from other states and countries year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
01	01	00	02	00

File Description	Document
List of students (other states and countries)	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document

2.1.2 Average Enrollment percentage (Average of last five years)

Response: 46.87

2.1.2.1 Number of students admitted year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
336	380	269	222	232

2.1.2.2 Number of sanctioned seats year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
586	629	607	620	636

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

2.1.3 Average percentage of seats filled against seats reserved for various categories as per applicable reservation policy during the last five years

Response: 24.85

2.1.3.1 Number of actual students admitted from the reserved categories year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
79	100	60	65	79

File Description

Document

Institutional data in prescribed format

[View Document](#)

Any additional information

[View Document](#)

2.2 Catering to Student Diversity

2.2.1 The institution assesses the learning levels of the students, after admission and organises special programs for advanced learners and slow learners

Response:

Every year institute organizes induction program for first year engineering students to make them aware about various facilities, faculties and infrastructure in the institute. This helps students to get familiar about the college and new environment. The Principal, HOD's, Training and placement officer guides students and informs regarding various skill-set they should gain during these four years. Students and parents are informed about the academic calendar, examination structure, grading system and passing criteria.

Students are allotted to college through centralized admission process (CAP). This allotted students come in wide range from low merit to high merit students and belongs to various backgrounds so it is important to assess learning level of students.

The process of analyzing learning level of student focuses on:

1. Analysis of students is carried out after one month of the commencement of teaching on the basis of the class test-I results, slow learners and advanced learners are identified for every subjects.
2. Every subject teacher prepares list of slow and advanced learner for their subject based on the student score.
3. The student securing marks below than 40% are considered as slow learner and the students who secure marks more than 75% are considered as advanced learners.
4. Our institute implements Guardian Teacher scheme under which faculties are assigned to a group of students to address their personnel as well as academic problems.

Activities for Slow Learners:

1. Remedial Coaching Classes
2. Assignments for Slow Learners
3. Prerequisites Lectures for Subjects
4. Provision of Question Paper with Solutions.
5. Provision of Hand-Written Notes for Subjects
6. Provision of Question Bank for Practice at Home
7. Personal Attention in Learning Levels through TG.

Activities for Advanced Learners:

1. NPTEL/Advanced Courses through NPTEL Chapter
2. NPTEL Videos Availability for All subjects
3. Technical Paper Presentation in National /International Level Conference
4. Technical Quiz Competition
5. Arrangement of Seminar /Workshop /Conference for Students
6. Arrangement of Expert Guest Lectures
7. Industry Sponsored Internships
8. Seminar's to Promote Presentation Skills
9. MOU's with Various Reputed Industries/Institutes

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

2.2.2 Student - Full time teacher ratio

Response: 10.61

File Description	Document
Any additional information	View Document

2.2.3 Percentage of differently abled students (Divyangjan) on rolls

Response: 0

2.2.3.1 Number of differently abled students on rolls

File Description	Document
Institutional data in prescribed format	View Document
Any other document submitted by the Institution to a Government agency giving this information	View Document

2.3 Teaching- Learning Process

2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

Response:

In order to enhance learning experience of students, following measures are taken into consideration:

1. Experiential learning:

Student centric teaching learning process adopted in the institute focuses on outcome based education. Experimental learning helps in promoting creativity among students. The institute is having a state of the art laboratories which helps students to understand theoretical concept in a better way. Institute is having latest required equipment's to perform lab work. Scientific thinking is nurtured among students by creating an atmosphere where they can see and analyze results of the experiment they have performed. Laboratories are equipped with latest and upgraded software's. Continuous evaluation of the student is done for every subject assignments, which helps students to know about their progress. Well equipped project laboratories and computer center is open for students to work on their project. Industrial visits are arranged to gain practical knowledge about the functioning in various industries. Students are doing internships and field projects in industry. All departments have signed MOU with industries/institutions. This helps for industry-institute interaction. While interacting with different companies provides experimental knowledge to students on recent technologies.

2. Participative Learning

For making students more active and participative various activities are conducted at department level. Efforts are made to make the students aware about what they are learning and why they are learning. Students perform practicals in group where they learn team working skills. Students are encouraged to take participation in various competitions and workshops inside and outside the college. The institute provides state of the art seminar hall where students participate in group discussion, debate and seminars. The institute arranges technical festival in which students from all departments actively participate and try to learn new things.

Institute supports faculties to organize project competitions, technical workshop, Quiz competitions and conferences so that students can participate in such activities.

3. Problem Solving Methodologies

In order to promote problem solving methodology among students, students are encouraged to take live/industry sponsored projects. Students are encouraged to design their own applications using available equipments in the laboratory and workshops. The faculty also motivates students to participate in model making. To learn and understand problem solving methodologies third year students are assigned mini-

projects. Final year students are encouraged to present / publish their project work in different national and international conferences/journals. The institute provides all support for the students to participate in national and international level competitions like Hackathon, SUPRA organized by society of Automotive Engineers (SAE).

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

2.3.2 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc.

Response: 100

2.3.2.1 Number of teachers using ICT

Response: 80

File Description	Document
List of teachers (using ICT for teaching)	View Document
Any additional information	View Document
Provide link for webpage describing the " LMS/ Academic management system"	View Document

2.3.3 Ratio of students to mentor for academic and stress related issues

Response: 18.46

2.3.3.1 Number of mentors

Response: 46

File Description	Document
Any additional information	View Document

2.3.4 Innovation and creativity in teaching-learning

Response:

Institute consciously takes effort to cultivate creativity in teaching learning process. Along with traditional teaching methods like chalk and talk, teachers make use of modern teaching aids. Use of devices like projector, laptop, and computers has contributed a lot in effective teaching. All staff members have

designed informative slides for their subject for proper understanding of the course. Faculty also uses videos, tutorials and other online material available from the internet for better understanding of the subject. To enhance teaching learning process institute has ICT based classroom in all departments. Faculties are also encouraged to use ICT tools. In all classrooms internet facility is provided with LCD projector. Faculty and students both use ERP for tutorials, assignments and reference material of each subject and other academic study material.

Faculty prepares assignments, question banks and uploads on ERP for students. Students are then asked to prepare solutions by referring books and other learning material. Institute has active library system fully fledged with number of books, e-journals and e-resources purchased in accordance with revised university syllabus. Special guest lectures are also arranged on latest topics by academicians and industry experts. Institute motivates faculty and provides financial assistance to attend FDP's, seminars and workshops, who in turn transfer their knowledge to the students.

Industrial visits, Group discussions and ICT classrooms with audio-video aids are used to make teaching learning process more effective. Broadband internet leased line with 52 Mbps capacity and Wi-Fi facilities are made available in the college campus. An innovative operating lab manual for each laboratory assignments/instrument is developed by faculty members and is made available to the students for use.

We use digital social networking apps like WhatsApp and Gmail to achieve faster and more seamless communication with our students. Every class has their own WhatsApp group. We send assignments, notes and even notices on WhatsApp groups. This helps to stay in contact with students even outside the classroom.

File Description	Document
Any additional information	View Document

2.4 Teacher Profile and Quality

2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years

Response: 103.29

File Description	Document
Year wise full time teachers and sanctioned posts for 5 years	View Document
List of the faculty members authenticated by the Head of HEI	View Document
Any additional information	View Document

2.4.2 Average percentage of full time teachers with Ph.D. during the last five years

Response: 2.02

2.4.2.1 Number of full time teachers with Ph.D. year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1	1	3	2	2

File Description	Document
List of number of full time teachers with PhD and number of full time teachers for 5 years	View Document
Any additional information	View Document

2.4.3 Teaching experience per full time teacher in number of years

Response: 5.83

2.4.3.1 Total experience of full-time teachers

Response: 466.5

File Description	Document
Any additional information	View Document

2.4.4 Percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the last five years

Response: 11.36

2.4.4.1 Number of full time teachers receiving awards from state /national /international level from Government recognised bodies year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
2	2	2	2	2

File Description	Document
Institutional data in prescribed format	View Document
e-copies of award letters (scanned or soft copy)	View Document
Any additional information	View Document

2.4.5 Average percentage of full time teachers from other States against sanctioned posts during the last five years

Response: 7.09

2.4.5.1 Number of full time teachers from other states year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
7	8	6	5	4

File Description	Document
List of full time teachers from other state and state from which qualifying degree was obtained	View Document
Any additional information	View Document

2.5 Evaluation Process and Reforms

2.5.1 Reforms in Continuous Internal Evaluation(CIE) system at the institutional level

Response:

Continuous Evaluation Process adopted by college is useful to test practical skills and knowledge obtained by students during course completion. Focus on internal evaluation is around student only. This evaluation is carried out by use of direct and indirect tools. Direct tools include unit tests, assignments, practical, online examinations, In-sem and End sem examinations. Indirect Tools includes course survey, discussions, quiz competitions etc. The reforms adopted by college is as follows

Term End Examination (Prelim Examination): - Institute conducts term end examination at the end of semester. This examination is useful for students to get idea about paper pattern, nature of questions asked in university examinations and students will get practice of writing answers.

Unit test: - After end of first month of teaching and completion of two units, unit test is conducted. There are two unit tests in semester.

Retest: - Retest is conducted for absent students and student who are failed in unit test of respective subject to improve performance of students

Mock Oral and Practical examinations: –These examinations are useful for students to boost confidence before appearing for university examinations. These examinations are conducted and evaluated by internal examiners.

Online Practice Examinations: - The institute conduct mock online examination with use of ERP s/w. faculty can design, create and schedule the test. Before schedule test question bank of subject with answers

is provided to the student.

Term Work Evaluation: - Term evaluation is carried out based on continuous assessment sheet. Parameters for deciding term work of students are attendance, assignments, unit test marks, completion of practicals.

Assignments: - Assignments are given after completion of every unit of each subject and regularly evaluated by subject teachers. For Practical Assignments, continuous evaluation of assignment helps students to increase their thinking capability, by expressing alternative solutions and finding correct solutions.

Project Reviews: - The College encourages students to carry out industry –sponsored Project working on real world problems get familiar with industry environment. Project evaluation is carried out by project guide, project coordinator and industry experts. Every department carried out two project reviews during semester. These reviews are carried out faculty members of department. Different factors are considered for the evaluation.

Seminar Presentation: - Seminars are useful for evaluating presentation and communication skills of students. This helps students to get aware about recent trends in science and technology. Seminar evaluation is carried out based on parameters like presentation skills, literature review, understanding of topic, seminar report submissions.

Feedback system: - Institute takes feedback from Student, Parents, Employers, External examiners for improvement in Evaluation Process.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

2.5.2 Mechanism of internal assessment is transparent and robust in terms of frequency and variety

Response:

The method applied for internal assessment assures enough transparency is discussed as below

Internal assessment mechanism:

The college conducts unit test for assessing student's academic performance. The answer papers of unit tests are evaluated by faculties and model answers are given to students for improvement. Unit tests are conducted twice in a semester. College displays evaluation criteria and related documents on notice board. It covers schedule of Internal and university evaluation. College gives criteria for allocation of term work marks through class counseling, class teacher and Guardian Teacher meetings.

Departmental AMC committee display unit test marks within five days after end of unit tests. For every

subject two internal examiners are appointed for filling online term work marks on university website at the end of semester. Finally Principal verifies internal marks of students and submit to the university.

The significant factors CIE (Continuous internal Evaluation) are

1. Students attendance in theory and practical Examinations
2. Unit Test and Term End Examination
3. Continuous Assessment of Experiments in Practicals
4. Mock Examination
5. Student's Performance in last university Examinations
6. Student's Participation in VAP, technical mini Projects and Paper Presentations & their participation in Sports, and Cultural activities

Robust Mechanism in terms of frequency and variety

To maintain transparency and robustness in implementation of CIE system, institute carried out following Processes

1. The CIE norms are displayed on departmental notice boards.
2. CIE norms are discussed in FE welcome Function. Faculties explain CIE norms to students of all the class in first theory and practical sessions.
3. Guardian Teacher gives detailed explain about CIE process in first meet
4. Assessments are carried out in Practical/Tutorials regularly
5. At the end of every month, students attendance is displayed on notice board
6. Unit tests and Prelim examination marks are displayed on notice board
7. Evaluated answer sheets are shared with students and if any doubts are there those will be solved by subject teacher and if any corrections in marks are recorded.
8. Performance of student in CIE is monitored by Guardian Teacher and progress of ward is discussed with parents in parent meet.
9. Mock PR/OR examinations are carried out to monitor progress of students for university examination and suggest corrections. Evaluation sheet is prepared by academic monitoring committee.

Students are make aware that term work is evaluated based on different parameters like marks in unit tests, time bound submission of journals, performance in practical, and attendance of theory classes and practical.

Frequency of assessment is as follows

- | | |
|--------------------------|---|
| 1. Unit Test | Two Times in a semester |
| 2. Online Examination | Two times in a semester |
| 3. Prelim Examinations | At the completion of teaching for ever semester |
| 4. Practical Assessment | Once in a week |
| 5. Unit wise assignment | At the end of every unit |
| 6. Project Reviews | Two times in a semester (if Applicable) |
| 7. Seminar Presentations | Two times in a semester (if Applicable) |

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

2.5.3 Mechanism to deal with examination related grievances is transparent, time-bound and efficient

Response:

In order to address grievances related to examination, college has constituted examination cell which is headed by College Examination Officer (CEO) along with department examination coordinators for smooth conduction of Online Examinations, In-semester Examination, End Semester Examinations, Practical Examinations of the university and other Internal Examinations.

Grievances related to University Examinations

1. Revaluation.
2. Incorrect Entries in mark sheet and Hall Ticket.
3. Non issue of Hall Ticket.
4. Non receipt of mark sheet after declaration of result.
5. Non declaration/ withheld result of student.
6. Appointment of writer to student on medical ground.
7. Change of Elective Subjects.

All above grievances of students are forwarded by college within specific time and resolved by university and same is communicated to concerned student.

After declaration of result, if student wish to apply for photocopy and revaluation, he has to submit online application form on university portal as per the schedule given by university. Hard copy of application along with corresponding fees has to be deposited at college office within stipulated time. University provide photo copy of applied answer sheet to college. After receiving photo copy, college office representatives displays notices regarding same on student notice board. Student can apply for revaluation

with photocopy of answer sheet. The change/no-change in revaluation of answer sheets is communicated by university to students.

Grievances Related to Internal Examinations.

The College Examination Cell is responsible to solve grievances of students for internal examinations.

Following procedure is designed to handle internal examination grievances.

1. HOD collect the information of student grievances and takes appropriate action.
2. HOD may discuss with CEO in this case if required.
3. Student can contact subject teacher for grievances on internal marks of any subject.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

2.5.4 The institution adheres to the academic calendar for the conduct of CIE

Response:

To improve the quality of teaching-learning process, college prepares academic calendar for entire semester of thirteen weeks duration. Teaching- learning and evaluation schedules are planned and organized through the following mechanisms

Institute academic calendar: In line with academic calendar given by SPPU University, Dean Academics prepares institute academic calendar which includes commencement and end of semester, tentative dates of Online, Insem, Practical and Oral examination and tentative dates of college level activities.

Departmental academic calendar: In line with institute academic calendar all the head of departments prepare the academic calendars which consist of detail information about different activities which will be carried out at departmental level.

To cope-up with the cutting edge technology following activities are covered:

1. Theory and Practical Sessions.
2. Test-1, Test-2.
3. Prelim examinations
4. Industrial visits
5. Any other.

Preparation of course objectives and outcomes: Course objectives and outcomes are framed/reframed by respective faculty by considering feedback from stakeholders such as Students, Alumni, Employers, Parents etc.

Teaching plan with additional contents: Teaching Plan of theory subject consist of Pre-requisites, actual content of subject, Content beyond syllabus in order to understand actual use of that subject in real life or Current trends in industries.

Unit tests: Unit tests are carried out after completion of two units. There are two unit tests in a semester these test are carried out at college level.

Prelim/End semester examination: At the end of teaching of semester, term end examination is carried out so that student become habitude for writing answers which will be helpful in university examination.

Mock practical and oral examination: In order to understand and get feel of actual practical examinations, Mock practical an oral examinations are carried out . The performance of students in such examinations is also evaluated by subject teacher.

Home assignments: After completion of every unit, theory assignment are given to find out how much content student get understood from that topic and at same time student will get habitual about writing long answers which is required in term end examinations

Project presentation and evaluation schedule: Department level review committee get constituted to assess development of Project that students are developing. Timely reviews are carried out in which development of project and if any problems will get discussed

Mock on-line examinations: Such examinations are carried out so that student will get familiar with environment of online exam, nature of questions asked, get practice of solving such questions

Continuous Assessment: This is carried out once in a week during practical sessions. Different Parameters considered like attendance, regularity, questions & answers and understanding etc

SPPU online, practical, oral, term-work examination planning: These examinations will takes place as per scheduled given by university.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

2.6 Student Performance and Learning Outcomes

2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the Institution are stated and displayed on website and communicated to teachers and students

Response:

Program Outcomes(POs), Program Specific Outcomes (PSOs) and Course Outcomes (COs) for all programs offered by the Institution are stated and displayed on website and communicated to teachers and students

Every Program has well defined Program outcomes(POs), Program Specific Outcomes (PSOs) and Course Outcomes (COs) for all programs. Course Outcomes are stated for each course which should be achieved by student at the end of course.

PSOs are defined at departmental level in respect of Vision and Mission of department. POs are extent of knowledge, skills and attributes that should be achieved by students at time of graduation. The faculty can modify COs of corresponding course if required. Faculties are also involved in formation of COs and PSOs. Staff training workshops are arranged for achievement of corresponding COs, POs, and PSOs.

Program Outcomes(POs), Program Specific Outcomes (PSOs) and Course Outcomes (COs) are displayed and conveyed by various ways as below.

1. POs and PSOs are displayed on college website and published on documents like lab Manuals, Course Files etc.
2. POs are published at important places like department entrance, department office , central library, classroom corridors.
3. PSOs are displayed at Respective HOD's cabin, laboratories etc.
4. POs and PSOs are communicated to students and parent through events like parent meeting, induction Programs etc.
5. COs are displayed at respective laboratories, and uploaded on college website.
6. COs are discussed with students in theory and practical sessions.
7. In HOD meeting HODs discuss POs, PSOs, and PSOs.

File Description	Document
COs for all courses (exemplars from Glossary)	View Document
Any additional information	View Document
Link for Additional Information	View Document

2.6.2 Attainment of program outcomes, program specific outcomes and course outcomes are evaluated by the institution

Response:

SCSCOE is committed to attain POs, PSOs and COs defined by SPPU and by institute. For this institute has used following mechanisms.

Continuous Evaluation during semester: At the beginning, COs of particular subjects are identified by subject teacher and they are mapped to POs. Efforts are taken out in entire semester to achieve those COs.

Individual subject teacher assess performance of students with the help of different tools like continuous evaluation sheet, unit test, theory assignments after end of every unit. The attainment of COs for every individual student is evaluated by concerned subject teacher. For every CO some target has already decided depend on previous year attainment. Target level will be vary from subject to subject based on nature of subject.

Evaluation at the end of semester: At the end of every semester, term end examination and mock practical/oral examinations are conducted. Every faculty designs unit test and Prelim examination paper which will meet certain COs.

In other way COs attainment can be calculated based on the performance of students in University Examination which will be conducted at the end of semester.

At the Graduation Level: At the time of completion of graduation, students performance is evaluated by considering different parameters like Project work carried out by student, placement, performance in competitive examinations. Different types of feedbacks are useful to analyze level of attainment. Different types of feed back includes alumni feedback, employers feedback, academicians feedback, parents feedback, student exit survey. Review meetings are conducted by AMC/IQAC and gives guidelines to various departments for necessary action. From the feedback of various stakeholders will be convey to BoS, Subject Chairman through proper channel. For the Institute development, student exit survey is helpful to identify up to which extent students are satisfied with reference to different parameters like infrastructure of the institute, Teaching- learning process of instiute, placement and other facilities.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

2.6.3 Average pass percentage of Students

Response: 77.66

2.6.3.1 Total number of final year students who passed the examination conducted by Institution.

Response: 146

2.6.3.2 Total number of final year students who appeared for the examination conducted by the institution

Response: 188

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response: 3.31

NAAC

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1 Grants for research projects sponsored by government/non government sources such as industry ,corporate houses, international bodies, endowment, chairs in the institution during the last five years (INR in Lakhs)

Response: 13.19

3.1.1.1 Total Grants for research projects sponsored by the non-government sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution year-wise during the last five years(INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
0.1	8.86602	00	00	4.22564

File Description	Document
List of project and grant details	View Document
e-copies of the grant award letters for research projects sponsored by non-government	View Document
Any additional information	View Document

3.1.2 Number of research projects per teacher funded, by government and non-government agencies, during the last five year

Response: 0.02

3.1.2.1 Number of research projects funded by government and non-government agencies during the last five years

Response: 5

3.1.2.2 Number of full time teachers worked in the institution during the last 5 years

Response: 225

File Description	Document
Supporting document from Funding Agency	View Document
Any additional information	View Document
Funding agency website URL	View Document

3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations including incubation centre and other initiatives for creation and transfer of knowledge

Response:

Institute is taking the following initiative to create an ecosystem for innovation:

- 1.The institute supports the students to widen technical knowledge by encouraging them to participate in national, international events like SUPRA SAE India, Smart India Hackathon, and Hybrid Car.
- 2.Institute arranges guest Lectures on Intellectual property Rights, Project finalization and patenting.
- 3.The institute provides financial support to the faculties for attending workshops, FDPs, STTP, and Conferences.
- 4.The institute also arranges industrial visits/field visit for students at different places to understand the industrial culture.
- 5.The institute has published a number of research papers in different National and International Journals and Conferences.
- 6.Institute interacts with the industry to fill the gap in the curriculum by organizing workshops, Seminar, Expert Lecture of industry personnel to address students on recent developments in the technology and therefore make them updated towards core technical knowledge.
- 7.The institute also arranges National/International Conference for students as well as faculties to a published paper in National /International Journal.
- 8.The institute has MOUs with various different organizations ranging from different horizons of wide engineering field.
- 9.The institute library has infrastructure and resources such as reference books, journal papers, E-Resources, NDL Membership and DELNET membership for the enrichment of knowledge.
- 10.To enhance the technical skills among students, the institute organizes the technical event “TECH FEST”. In this event, the students can participate in technical competitions, poster presentation and project competition.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

3.2.2 Number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the last five years

Response: 44

3.2.2.1 Number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
16	10	09	04	05

File Description	Document
Report of the event	View Document
List of workshops/seminars during the last 5 years	View Document
Any additional information	View Document

3.3 Research Publications and Awards

3.3.1 The institution has a stated Code of Ethics to check malpractices and plagiarism in Research

Response: Yes

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

3.3.2 The institution provides incentives to teachers who receive state, national and international recognition/awards

Response: Yes

File Description	Document
e- copies of the letters of awards	View Document
Any additional information	View Document

3.3.3 Number of research papers per teacher in the Journals notified on UGC website during the last five years

Response: 0.07

3.3.3.1 Number of research papers in the Journals notified on UGC website during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
09	04	10	03	03

File Description	Document
List of research papers by title, author, department, name and year of publication	View Document
Any additional information	View Document

3.3.4 Number of books and chapters in edited volumes/books published and papers in national/international conference proceedings per teacher during the last five years

Response: 0.26

3.3.4.1 Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
21	00	00	01	01

File Description	Document
List books and chapters in edited volumes / books published	View Document
Any additional information	View Document

3.4 Extension Activities

3.4.1 Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the last five years

Response:

New opportunities are opened for the development of skills and leadership in students by organizing social activities, cultural Programs, and awareness Programs. This helps students to identify the real-life problems of rural areas. Students contribute to the village development in consultation with the local authority and complete the activity during the camp period.

NSS Unit of our institution conducts seven days camp in collaboration with Gram panchayat in Association with SPPU, Pune. During the camp, various activities are carried out like:

- Swacha Bharat Abhiyan
- Digital Awareness Program like Cashless Transaction
- Pani-Aadva-Pani-Jirva Campaign (Rain Water Harvesting)
- Tree Plantation
- Bandhara construction (Mini Barrage and Pound)

- Street Play on Women Empowerment & Andhashradha Nirmulan Program
- Cultural Program for Villagers
- Street play on the importance of higher education
- Snake awareness program.

1. "Vidyarthini Arogya Probodhan", an initiative of SPPU for health awareness of girl students has been successfully conducted by the institution.
2. The institution library has organizes "Book Exhibition on the birth anniversary of Late Dr. A. P. J. Abdul Kalam, that motivates students to get the knowledge from the books.
3. The institution has organized various seminars and workshops such as Seminar on Self Defense –Sexual Harassment and Reaction, Road Safety, How to remain Healthy, Awareness of Digitalization and workshop on Fire Safety Precaution.
4. The institution organizes Tree Plantation Program to reduce the global warming effect and save the environment.
5. The institution has organized "Swachh Bharat Swasth Bharat Abhiyaan" to give awareness about the cleanliness. Students conduct street plays at public places like temple, school, and forts to give importance of health and cleanliness.
6. The institution has organized speech and essay competition on voter awareness program under Election Literacy club.
7. The institution has organized Blood Donation Camp in which students and faculty actively participated.
8. The institution has organized International Yoga Day in which our students, as well as faculty, always participate in youth development programs.
9. Institute has organized a program on, "Importance of road safety and Traffic Management" for awareness of traffic rules and regulations.
10. The students and faculties from the institution have provided financial support for the hospital emergency. Mechanical department student Mr. Niranjan Dudhane has given Rs. 10,760/- from MESA for medical treatment for his Head injury and Leg Fracture.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

3.4.2 Number of awards and recognition received for extension activities from Government /recognised bodies during the last five years

Response: 0

3.4.2.1 Total number of awards and recognition received for extension activities from Government /recognised bodies year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	00	0

File Description	Document
Number of awards for extension activities in last 5 years	View Document
e-copy of the award letters	View Document
Any additional information	View Document

3.4.3 Number of extension and outreach Programs conducted in collaboration with Industry, Community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the last five years

Response: 43

3.4.3.1 Number of extension and outreach Programs conducted in collaboration with Industry, Community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
17	12	07	04	03

File Description	Document
Reports of the event organized	View Document
Number of extension and outreach programs conducted with industry,community etc for the last five years	View Document
Any additional information	View Document

3.4.4 Average percentage of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the last five years

Response: 45.39

3.4.4.1 Total number of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. year-

wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
546	519	422	332	164

File Description	Document
Report of the event	View Document
Average percentage of students participating in extension activities with Govt. or NGO etc.	View Document
Any additional information	View Document

3.5 Collaboration

3.5.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc during the last five years

Response: 107

3.5.1.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
33	23	29	14	8

File Description	Document
Number of Collaborative activities for research, faculty etc.	View Document
Copies of collaboration	View Document
Any additional information	View Document

3.5.2 Number of functional MoUs with institutions of National/ International importance, Other Institutions, Industries, Corporate houses etc., during the last five years (only functional MoUs with ongoing activities to be considered)

Response: 15

3.5.2.1 Number of functional MoUs with institutions of national, international importance, other

universities, industries, corporate houses etc. year-wise during the last five years (only functional MoUs with ongoing activities to be considered)

2017-18	2016-17	2015-16	2014-15	2013-14
2	3	4	2	4

File Description	Document
e-copies of the MoUs with institution/ industry/ corporate house	View Document
Details of functional MoUs with institutions of national, international importance, other universities etc during the last five years	View Document
Any additional information	View Document

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 The institution has adequate facilities for teaching- learning. viz., classrooms, laboratories, computing equipment, etc.

Response:

The institute has adequate infrastructure as per AICTE norms. The institute ensures optimal utilization of physical infrastructure to facilitate effective and efficient teaching learning process.

Land Availability:

Total land available for the institution is 15 Acres. Out of total area 18735 sq.m is used for Academic Building. The remaining area is efficiently used for playground, hostels, canteen/mess etc.

Built-up Area:

The institute has spacious infrastructure having built-up area 18735 Sq. mtr which includes instructional area such as classrooms, laboratories, workshops, computer centre, central library, seminar hall and administrative area. The infrastructure exceeds well beyond the AICTE norms.

Classrooms:

The institute has well-furnished and illuminated with good ventilation classrooms to provide better environment for teaching learning process. The institute has a Total of 15 No. of classrooms having area of 70 sq. mtr each well equipped with ICT facilities to adopt appropriate teaching methodology.

Seminar Hall:

The institute has Seminar Hall having area of 251 sq. m. to conduct the expert lecture, Seminar, Conference, Curricular and extracurricular activities. Seminar hall is equipped with LCD projector, P. A. system, internet facility with proper interactive arrangement like stage podium etc.

Laboratories:

The institute has 35 Laboratories with proper experimental setup to conduct experiments and to validate theory and practical result. Total cost of all laboratories is Rs. 2,18,32,062/-.

The Institute has innovation center for skill development and to do innovative work for students.

Workshop:

The institute workshop is fully equipped with no. of machineries like 19 heavy and light duty Lathe machines, 01 CNC machine, 01 drilling machine, 01 grinding machine, 01 horizontal milling machine and 02 wooden Lathe machines. Students are free to carry out their fabrication work related to the project even after working hours. The total cost of workshop is around 19.34 lakhs.

Central Library:

The Central Library of the institution is having area of 505 sq.mtr. In library printed titles, volumes, journals and magazines are available. Digital library provides e- resources like e-books, NPTEL video etc. Central library has annual membership of Jaykar Library of Savitribai Phule Pune University and British Council Library.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

4.1.2 The institution has adequate facilities for sports, games (indoor, outdoor),gymnasium, yoga centre etc., and cultural activities

Response:

The institute has 35600 Sq. m reserved playground area for sports. Institute organizes various sports games and cultural activities at different level.

Institute organizes “RAJGAD KARANDAK” state level group dance competition. Also “ANANT MAHOTSAV” for cultural activities.

Indoor and Outdoor Games:

The playground area is used to play various outdoor games like football, kabaddi, kho-kho, cricket etc. Indoor game facility is provided for chess, carrom etc.

Also Annual sports competition is being arranged by our Institute.

Gymnasium:

The institute has well equipped gymnasium with equipment like Dumbbells, crossover machine etc.

Yoga Centre:

Yoga activities and Meditation programs are arranged every year in seminar hall. The expertise in yoga conducts the activity. World Yoga Day is always celebrated on 21st June of every year.

Cultural activities:

Institute arrange annual gathering in an open Amphitheatre of area 35600 sq.m. The Amphitheatre has good landscape area for ample seating capacity. The Institute organize annual gathering “ANANT Mahotsav” and programs like “RAJGAD KARANDAK”. The themes for cultural activities are based on current social issues and awareness. The Institute also encourages students to celebrate various activities

like Republic day, Independence Day, Ganesh Festival, Shivaji Maharaj Jayanti etc.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

4.1.3 Percentage of classrooms and seminar halls with ICT - enabled facilities such as smart class, LMS, etc

Response: 100

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 16

File Description	Document
Number of classrooms and seminar halls with ICT enabled facilities	View Document
any additional information	View Document
Link for additional information which is optional	View Document

4.1.4 Average percentage of budget allocation, excluding salary for infrastructure augmentation during the last five years.

Response: 12.35

4.1.4.1 Budget allocation for infrastructure augmentation, excluding salary year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
5.50	28.56	63.15	31.20	62.6

File Description	Document
Details of budget allocation, excluding salary during the last five years	View Document
Audited utilization statements	View Document
Any additional information	View Document

4.2 Library as a Learning Resource

4.2.1 Library is automated using Integrated Library Management System (ILMS)

Response:

The institute has completely automated with 'Auto Lib-NG Software', introduced in February 2015, as Integrated Library Management System (ILMS). 'Auto Lib NG' is popular and advanced integrated library automation management software. Auto Lib is fully integrated, versatile, user-friendly, cost-effective and multi-user software. Auto Lib programming gives easy access and circulate content flawlessly. It is a coordinated programming bundle including all parts of library administration.

Name of the ILMS software : Autolib NG

Nature of automation Fully : Automated

Name of service provider : Akash Infotech

It deals with

Circulation - Transaction

- Issue, Return, Renewal of Books, Journals, Back volumes
- Recall, Reservation, Reservation Cancellation
- Reminders
- Reports
- Books - Issued
- Books - Returned
- New Additions, Catalogue (Main/Author/Title)
- Accession Register/Bibliography
- List of books by Author/Title/Publisher/Year
- Subject/Call Number (by any order)
- Books by Unique Titles, Frequently issued books
- Books by - Subject wise
- Books Issued/Returned/Reserved/Reminder
- Receipt for Fine Amount
- List (User/Publisher/Supplier/Departments)
- Stock verification Report
- Budget Details, Orders

Library has 2794 book titles, 9692 volumes, 24 national journals and 12 International Journals. Separate reading section is available for students and teachers. There is a separate E-Library section for e-recourses. E-library has a subscription for e-journals, e-books, National Digital Library and various memberships like British library, Jaykar library Savitribai Phule Pune University, Pune. Separate news paper section for readership. For students reference previous 9 years university question papers are available.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

4.2.2 Collection of rare books, manuscripts, special reports or any other knowledge resources for library enrichment

Response:

Institution has number of handbooks for various streams of engineering as well as project reports are accessible for understudy reference. Data like instructive recordings including NPTEL and e-books are kept up as information asset. Institution has unique gathering of competitive exam i.e. GRE, TOEFL, MPSC. Many reference books of engineering, as well as Marathi and English literature is available. Library has 15 handbooks, 23 Gate books and 16 rare books. It additionally e-learning assets gives by National digital library. The list of handbooks is as given below

LIST OF HANDBOOKS

Sr.No.	Name of the Title	Author	Publisher	Year Pub.	of Vol.
1	Handbook of Industrial Minerals and their Uses	Ciullo, Peter	Crest pub.	2005	1
2	Handbook of Industrial Membrane Technology	Porter, M. C.	Crest pub.	2005	1
3	Handbook of Hazardous Air Pollutants	Bradstreet, J. W.	Crest pub.	2004	1
4	Handbook of Groundwater Remediation and Treatment Technologies	Cheremisinoff, N. P.	Crest pub.	2004	1
5	Juran's Quality Handbook: the Complete Guide to Performance Excellence	Juran, JOseph M. / DeFeo, Joseph A.	TMH	2007	1
6	Pump Handbook	Pump Handbook	Pump Handbook	2008	1
7	Handbook of Energy Audits	Thumann, Al and others	CRC Pub.	2009	1

8	Handbook on Energy Audit and Environment Management	Abbi, Y.P./ Jin, Shashank	Teri Press	2006	1
9	Automotive Handbook	Bosch	Wiley India ed.	1947	2
10	Fluid Power Design Handbook	Yeaple, F.	Marcel Dekker	2014	1
11	Juran'S Quality Handbook 6E	Juran, Joseph M /Feo, Joseph A.	TMH	2010	1
12	Measurement, Instrumentation, and Sensors Handbook	Webster, J. G. &Eren, Halit	Taylor & Francis	2014	2
13	The Electronic Handbook	Whitaker, J. C.	IEEE Press	1996	1
Total No. of Copies					15

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

4.2.3 Does the institution have the following:

- 1.e-journals
- 2.e-ShodhSindhu
- 3.Shodhganga Membership
- 4.e-books
- 5.Databases

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: A. Any 4 of the above

File Description	Document
Details of subscriptions like e-journals,e-ShodhSindhu,Shodhganga Membership etc	View Document
Any additional information	View Document

4.2.4 Average annual expenditure for purchase of books and journals during the last five years (INR in Lakhs)

Response: 3.1

4.2.4.1 Annual expenditure for purchase of books and journals year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
1.45	2.03	4.32	3.87	3.83

File Description	Document
Details of annual expenditure for purchase of books and journals during the last five years	View Document
Audited statements of accounts	View Document
Any additional information	View Document

4.2.5 Availability of remote access to e-resources of the library

Response: Yes

File Description	Document
Any additional information	View Document

4.2.6 Percentage per day usage of library by teachers and students

Response: 10.33

4.2.6.1 Average number of teachers and students using library per day over last one year

Response: 96

File Description	Document
Any additional information	View Document

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities including Wi-Fi

Response:

Institution always considers the suggestion and recommendation given by all stakeholders for the necessary up gradation in IT facilities. Institution frequently updates the IT facilities including Wi-Fi like hardware, software and networking. Updated IT facilities are given as below.

1. Updates in IT Facilities

Sr. No.	IT Facilities	Prior	Existing	Updated
1	Lease Line	52 MBPS	60 MBPS	30/05/2019
2	Pc's Connected to LAN	231	386	30/04/2019
3	Internet switches	20	23	09/04/2019
4	Interactive Board	Nil	5	20/03/2019
5	Multimedia Projector	9	14	20/03/2019
6	Printers	23	28	19/09/2018
7	Graphics Card	Nil	3	27/06/2018
8	Wi-Fi Access Point	Nil	20	25/06/2018
9	Network Updation	Class C Networking	Class B Networking	07/05/2018
10	CCTV	Nil	2	27/03/2018
11	Finger print TA	Nil	1	03/01/2018
12	Internet Router	Nil	1	23/06/2017
13	IBM Server	Nil	1	29/10/2017

3. Details of Computing Facility

Sr. No.	Item	Quantity
1	Desktop Computers	386
2	Servers	1

3	Laptops	2	
4	Black & White Laser Printer	18	
5	Plotter	1	
6	All in One Printer	6	
7	Color printer	2	
8	LCD Projector	14	
9	Scanner	2	
10	Finger Print Scanner	1	
11	Barcode Scanner	1	
12	Digital Copier	2	

4. Details of licensed System and application software

Sr. No.	Name of Department	Name of software	Date of purchase	Number of users	A
1	All Campus	ERP http://app.cloudeducationerp.com/rajgad	07/11/2017	Multiuser	5,
2	All Campus	Digital Language Lab	05/01/2016	20	68
3	Account Office	Tally	01/10/2015	Multiuser	50
4	Electronics and Telecommunication	MAT LAB	09/06/2014	20	5,
5	All Campus	Windows 8.1	06/05/2014	75	4,
6	Electronics and Telecommunication	MULTISIM	24/03/2014	10	2,
7	Electronics and Telecommunication	MICROWIND	09/08/2012	10	4,
8	Electronics and Telecommunication	TRITON	30/07/2012	05	1,
9	Mechanical Engineering	ZW CAD	06/01/2010	50	1,

NAAC

Internet connectivity and Wi-Fi: The institution has leased internet bandwidth of **60 Mbps**. Campus is equipped with Wi-Fi facility with **20 Wi-Fi** access point.

Computer center: The institution has a separate computer center with **75 computers** which is not only used by students but also used for conducting online University examinations.

ICT Tools: The institution has implemented different information and communication technology tools like LIB Auto for library, Google Apps for sharing teaching material, Google Form for online student's feedback, ERP for education management and planning, bulk SMS service for communication with student, parent and faculties.

Open source: Institution has open source software like Ubuntu 14.04 LTS, 16.04, 18.04, Net beans IDE 6.8, Eclipse, Python 3.6, Flex, Bison, Open JDK 7, My SQL, Firefox 57.5, and Fedora.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

4.3.2 Student - Computer ratio

Response: 2.77

File Description	Document
Any additional information	View Document

4.3.3 Available bandwidth of internet connection in the Institution (Lease line)

>=50 MBPS

35-50 MBPS

20-35 MBPS

5-20 MBPS

Response: >=50 MBPS

File Description	Document
Any additional information	View Document

4.3.4 Facilities for e-content development such as Media Centre, Recording facility, Lecture Capturing System (LCS)

Response: No

File Description	Document
Facilities for e-content development such as Media Centre, Recording facility,LCS	View Document

4.4 Maintenance of Campus Infrastructure

4.4.1 Average Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, as a percentage during the last five years

Response: 19.28

4.4.1.1 Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
43.23	86.21	66.02	45.32	41.11

File Description	Document
Details about assigned budget and expenditure on physical facilities and academic facilities	View Document
Audited statements of accounts.	View Document
Any additional information	View Document

4.4.2 There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

Response:

Proper functioning of the institute is totally depends on maintenance of each assets. The institute has maintenance, housekeeping and Write-off committee for the maintenance of all physical, academic, and support facility. For proper functioning according to specialization the responsibility of maintenance is assigned to the committee members. Verification of dead stock and ensuring requirements of consumable and loss equipments is done every semester before date of commencement.

A. Maintenance:

1. Laboratories:

Before the date of commencement of semester preventive maintenance of all experimental setup, equipments, electric supply etc. is carried out to avoid failure of equipment or facility. Apart from this lab assistant will do routine maintenance like lubrication tightening of nut-bolts and replacement of consumables while cleaning of lab is done by housekeeping.

There is established policy under the administration of principal and management for maintenance and write-off the equipment or facility in case of damage or not working properly.

Every lab in charge maintains the register of maintenance and calibration. Calibration is done as per the standard of laboratory. Monthly testing of all equipment is carried out by faculty and lab assistant.

2. Computer and I T facility:

Maintenance work of computers and I T facility is done by system admin and lab assistant. For the major issues the work is outsourced.

3. Library:

The stock verification is done on yearly basis. Library software (name) is updated before the expiry date. The old copies of periodicals are bound together on every semester. Torn books are rebounded after inspection.

4. Sports ground and facilities:

The institute has well maintained ground for outdoor games. The grass cutting, rolling and leveling, watering is carried out whenever required.

The maintenance or write off of the consumable sport material is done as per policies.

5. Other maintenance:

The institute has central facilities like elevator, water filter and coolers, Diesel generator set, Transformer, photo copy machine, fire extinguisher system etc. The repair and maintenance of all is carried out periodically. The authorized external agencies are called wherever required.

Regular cleaning and sanitizing of corridor, staircase, latrine etc. is carried out by housekeeping.

B. Utilization:

The students who are admitted in the institute, the physical and academic facilities such as laboratories classrooms, computers, sports, Gymnasium are made available for them.

All the facilities are utilized regularly by the students. For particular period if they are not in use is made available for the Government or non-Government examinations like CET, MPSC etc.

The Institute has adequate No. of computers with internet connection and utilized by all stakeholders. All departments, office and the staff has LAN facility.

The other support facility like sports Gymnasium are utilized by students for regular practice and competition.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years

Response: 74.12

5.1.1.1 Number of students benefited by scholarships and freeships provided by the Government year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
683	638	682	618	670

File Description	Document
Upload self attested letter with the list of students sanctioned scholarships	View Document
Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years	View Document
Any additional information	View Document

5.1.2 Average percentage of students benefited by scholarships, freeships, etc. provided by the institution besides government schemes during the last five years

Response: 27.11

5.1.2.1 Total number of students benefited by scholarships, freeships, etc provided by the institution besides government schemes year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
487	331	223	125	3

File Description	Document
Number of students benefited by scholarships and freeships besides government schemes in last 5 years	View Document
Any additional information	View Document

5.1.3 Number of capability enhancement and development schemes –

1. For competitive examinations
2. Career counselling
3. Soft skill development
4. Remedial coaching
5. Language lab
6. Bridge courses
7. Yoga and meditation
8. Personal Counselling

A. 7 or more of the above

B. Any 6 of the above

C. Any 5 of the above

D. Any 4 of the above

Response: A. 7 or more of the above

File Description	Document
Details of capability enhancement and development schemes	View Document
Any additional information	View Document
Link to Institutional website	View Document

5.1.4 Average percentage of student benefited by guidance for competitive examinations and career counselling offered by the institution during the last five years

Response: 72.95

5.1.4.1 Number of students benefited by guidance for competitive examinations and career counselling offered by the institution year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
585	825	625	534	663

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	View Document
Any additional information	View Document

5.1.5 Average percentage of students benefited by Vocational Education and Training (VET) during the last five years

Response: 2.92

5.1.5.1 Number of students attending VET year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
124	0	0	0	0

File Description	Document
Details of the students benefited by VET	View Document
Any additional information	View Document

5.1.6 The institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

Response: Yes

File Description	Document
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	View Document
Details of student grievances including sexual harassment and ragging cases	View Document
Any additional information	View Document

5.2 Student Progression

5.2.1 Average percentage of placement of outgoing students during the last five years

Response: 34.95

5.2.1.1 Number of outgoing students placed year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
73	57	74	78	73

File Description	Document
Self attested list of students placed	View Document
Details of student placement during the last five years	View Document
Any additional information	View Document

5.2.2 Percentage of student progression to higher education (previous graduating batch)

Response: 0

5.2.2.1 Number of outgoing students progressing to higher education

File Description	Document
Details of student progression to higher education	View Document

5.2.3 Average percentage of students qualifying in State/ National/ International level examinations during the last five years (eg: NET/ SLET/ GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil Services/State government examinations)

Response: 8.76

5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: NET/ SLET/ GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil services/ State government examinations) year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
2	4	6	1	4

5.2.3.2 Number of students who have appeared for the exams year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
28	41	53	21	37

File Description	Document
Upload supporting data for the same	View Document
Number of students qualifying in state/ national/ international level examinations during the last five years	View Document
Any additional information	View Document

5.3 Student Participation and Activities

5.3.1 Number of awards/medals for outstanding performance in sports/cultural activities at national / international level (award for a team event should be counted as one) during the last five years.

Response: 1

5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one) year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1	0	0	0	0

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at national/international level during the last five years	View Document
e-copies of award letters and certificates	View Document
Any additional information	View Document

5.3.2 Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution

Response:

Student council of the institute is formed with accordance to section 40(2) (b) of Maharashtra University Act 1994

Aim: The main aim of student council is to incorporate suggestions, views and opinion of students about

academic, administrative and extracurricular activities as per their expectations.

Student Council ensures maximum involvement of student in academic, administrative and extracurricular activities in institute along with SPPU. It acts as a middleware between students and administration. It also gives opportunity to students to represent college at university Level.

Constitution:

•	Principal
•	Principal nominated faculty (Student Council Faculty Coordinator)
•	Physical Director
•	NSS Program Officer
•	Four Academic Toppers from F.E to B.E.
•	General Secretary
•	Cultural Student Coordinator
•	Sports Student Coordinator
•	NSS Student Coordinator
•	Principal nominated two Girls Representatives

Formation: Institute invites applications for the different posts of student council. All students have to go through formal interview process which is carried out by interview panel comprised of Principal, Deans, HOD's and Some Senior faculty members. Eligibility criteria to apply for the post of student council is that student should pass all subjects in university examination.

Committees: Institute has established different cells/Committees which encompass student representative.

1. Anti-Ragging and Anti Ragging Squad committee

The main aim of this committee is to prevent ragging in college as well as hostel premises and if any case reported then enquiry and actions should be taken if found guilty.

2. Library Committee

The committee members should provide requirement for study materials and put forward the problems faced by students regarding library section.

3. Internal Quality Assurance Cell

It assures quality in all activities running in institute by preparing policies and implementing those policies effectively.

4. Entrepreneurship Development and T&P Committee/Cell

This committee organizes seminars, guest lectures to impart entrepreneurship in students. It also organizes training & placement sessions and activities.

5. Sports and Cultural Committee

This committee organizes annual sports week and annual gathering under “ANANT MAHOTSAV” every year.

6. Anti- Sexual Harassment/woman Grievance /Internal Complaint Committee

It provides platform to raise the voice of student against sexual harassment and grievances if any. It ensures the transparency in grievances redressal, sexual harassment prevention process.

7. NSS Committee

This committee organizes different social activities like Swatchhata Abhiyan, Blood Donation Camp, Tree Plantation and Shramdan Shibir in various villages.

8. Media Publicity, Wall Magazine Branding Committee

This committee ensures to organize different functions like Best Poem, Best Photo, and Best Painting. It publicize the institute during admission process

9. SC/ST/OBC Cell

It creates awareness among SC/ST students regarding various scholarship programs of state government and UGC. It ensures protection and reservation as provided in the constitution of India.

10. Departmental Students Association:

- MESA: Mechanical Engineering Student Association
- CESA: Computer Engineering Student Association
- ETESA: Electronics & Telecommunication Engineering Student Association
- ACES: Association of Civil Engineering Students

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

5.3.3 Average number of sports and cultural activities/ competitions organised at the institution level per year

Response: 17

5.3.3.1 Number of sports and cultural activities / competitions organised at the institution level year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
17	18	16	16	18

File Description	Document
Report of the event	View Document
Number of sports and cultural activities / competitions organised per year	View Document
Any additional information	View Document

5.4 Alumni Engagement

5.4.1 The Alumni Association/Chapters (registered and functional) contributes significantly to the development of the institution through financial and non financial means during the last five years

Response:

The institute has formed “Rajgad Dnyanpeeth Technical Campus Alumni Association” (RDTCAA) in year of 2015. The first alumni meet was organized on 21st Feb, 2015. RDTCAA of the institute is registered with Assistant Registrar of Society, Pune Region, Pune (Registration Number: Maharashtra/1864/2018/Pune) as per the Maharashtra Government rules.

Alumni Benefits for Students:

- Personality Development Program
- Career Advising
- Industry Institute Interaction
- Placement Assistance
- Project Assistance for final year students
- Arranging seminar for TE/BE students

Objectives of RDTCAA:

1. To provide platform to strengthen relation among Alumni, Present Students and Faculty Members
2. To Work in association for the benefit of Institute
3. To encourage Alumni to stay associated and to serve as promoters for the Institute
4. To foster communication and relationship among Alumni, Present Students and Faculty Members
5. To encourage Alumni to contribute their time, talent and financial support to Institute and students

- 6.To incorporate the educational wealth to the entire down-trodden students to improve their professional and personal life standards
- 7.To enable the successful Alumni to inspire the each and every budding student to achieve the best in their professional career
- 8.To make efforts for cultural & educational development
- 9.To provide job opportunities for the present & past students.
- 10.To organize different social program & to orient the past students about the new trends in education.

Functions of RDTCAA:

- 1.Register Alumni organization formally
- 2.Ensure registration of all outgoing students in Alumni Association
- 3.Extend all assistance and cooperation to the institute for growth and development of institute in the field of academics and research
- 4.Perform collaborative activities leading towards the enhancement of skill and knowledge of the student in the institute
- 5.Establish Alumni chapters at the identified locations
- 6.Maintain Alumni database and MOM
- 7.Publicize chapter, its activities and the achievements through E-News letters
- 8.Organize meeting and sessions at Alumni with current students
- 9.Maintain year wise Audit Reports

Non-financial Contribution of Alumni Association:

- Establishing Memorandum of Understanding between the Institution and Alumni Entrepreneurs
- Suggestion and Support to Training and Placement Cell
- To enhance Teaching Learning Process through Expert/Guest Lectures
- Interaction with students in the areas of Career Awareness and Career Planning
- Getting Feedback from the Alumni for improving the quality of education
- Support in conduction of industrial visits at their organization
- Donation of Reference Books, Wall-paintings, Project Models, Statues, Sound System to the Institute
- Guidance to students for Project Work, Latest Technology, AVISHKAR etc
- Job oriented Training Program under Value Added Courses.

Financial Contribution of Alumni Association:

Alumni also contribute for the development of the institution providing financial aid. Alumni expressed their willingness to contribute in the best possible ways for the overall development of the institution.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

<p>5.4.2 Alumni contribution during the last five years(INR in Lakhs) ? 5 Lakhs</p> <p>4 Lakhs - 5 Lakhs</p> <p>3 Lakhs - 4 Lakhs</p> <p>1 Lakh - 3 Lakhs</p> <p>Response: 1 Lakh - 3 Lakhs</p>	
File Description	Document
Any additional information	View Document
Alumni association audited statements	View Document

<p>5.4.3 Number of Alumni Association / Chapters meetings held during the last five years</p> <p>Response: 3</p>											
<p>5.4.3.1 Number of Alumni Association /Chapters meetings held year-wise during the last five years</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">2017-18</th> <th style="width: 20%;">2016-17</th> <th style="width: 20%;">2015-16</th> <th style="width: 20%;">2014-15</th> <th style="width: 20%;">2013-14</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">0</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> <td style="text-align: center;">0</td> </tr> </tbody> </table>		2017-18	2016-17	2015-16	2014-15	2013-14	1	0	1	1	0
2017-18	2016-17	2015-16	2014-15	2013-14							
1	0	1	1	0							
File Description	Document										
Number of Alumni Association / Chapters meetings conducted during the last five years.	View Document										
Any additional information	View Document										
Report of the event	View Document										

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the institution

Response:

Vision:

“Excellent Institution for Education, Training and Research in Engineering.”

Mission:

- Develop competent engineers along with professional skills and responsible citizen.
- Foster knowledge & technical skills of the highest standards to develop sustainable engineering solution.
- Prepare engineers to respond to needs of the industry, higher studies and research through industry and institute interaction.

The distinctive characteristics of the Institute are defined in the mission statement reflects the terms of addressing the needs of the society, students, institute’s value orientation and vision for the future.

Nature of Governance:

Institute has governing body, Local Managing Committee (LMC) now termed as College Development Committee (CDC) and Internal Quality Assurance Cell (IQAC) act as a management for designing and implementation of quality policies. Institute has efficient coordination and internal management system. The Internal Quality Assurance Cell (IQAC) is formulated to ensure the quality enhancement of academic and administrative activities.

Perspective plan:

The institute has designed a perspective plan keeping in mind the previous experiences, stake holder suggestions and changing scenario in the field of engineering to enhance the various activities.

Participation of Teachers in Decision Making Bodies:

Teachers are the most important part of teaching learning process. Faculty members are actively participating in department level meetings and the resolutions are made in department level meeting are passed to the Principal for final decision. In addition, faculty members are serving as members of various committees formed at department level and institute level where the decisions and opinions of committee members play crucial role in decision making. The Principal regularly conducts meeting to discuss various issues. All such issues are addressed by the Head of the Departments with their faculty for implementing the decisions taken by the Principal.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

6.1.2 The institution practices decentralization and participative management

Response:

The institution has a practice of participative management. The college provides the better opportunity to the stakeholders in the decision making process. The college administrative and academic structure is in a manner to make the decision by participative arrangement.

Principal is the administrative and academic Head, followed by department heads. The departments are encouraged to arrange various activities with the support of Management for the benefit of Students and Faculty.

The management ensures that the opinions and suggestions made by faculty are included in decisions implemented for college development.

The Committees are formed in the College as per the directives of the Governing Body playing an important role in various institutional functions.

Various Committees of institute are as follows:

1. Internal Quality Assurance Cell Committee
2. SC/ST/OBC Cell
3. Extra Curricular Sports Committee
4. Academic Monitoring Committee
5. Research and Development Committee
6. Anti Ragging Committee
7. Examination Committee
8. National Service Scheme Committee
9. Internal Complaints Committee
10. Cultural Committee
11. Alumni Association Activities Committee
12. Library Committee
13. Counseling and Medical Care Committee
14. Infrastructure, Maintenance and Purchase Committee
15. Hostel, Canteen and Transport Committee
16. Publicity/ Media / Magazine / Branding Committee

Hence as mentioned above, functioning of the institute exhibits decentralization and participative management.

Case study: Internal Complaints Committee

Procedure of Internal Complaints Committee:

- Any Female Student or Women Employee will have right to file complaint concerning sexual harassment against any male student or employee of institute by writing a letter or putting complaint to Principals office.
- After receiving a complaint, the chairman calls the meeting of cell for appointment of investigation committee.
- The investigation committee shall then decide course of action to precede otherwise the investigation committee decides to proceed with the complaint, the wisher of complainer shall be ascertained and if the complainer wishes that a warning will suffice then alleged offender shall be called to the meeting of committee, heard and if satisfied then warning will be given.
- In case of complainer wishes to proceed beyond warning to accused, the accused shall be given in writing within one week to investigation committee the reason behind that.
- If the written explanation of accuser is not found satisfactory or if he does not give any written explanation then investigation committee will decide whether he deserve a minor penalty or major penalty.
- If investigation comes to conclusion that the accuser found to be guilty then should be imposed to major penalty, it shall make recommendation of action.
- If the accused is an employee, he might be placed under suspension under the provision of act.

If the person is charged with physical molestation or rape in college or society's premises, he shall be immediately placed under suspension pending the complaint of the investigation and enquiry. Appropriate action can be initiated as per laws of Indian Penal Code.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

6.2 Strategy Development and Deployment

6.2.1 Perspective/Strategic plan and Deployment documents are available in the institution

Response:

Institution has made strategic plan to meet the requirement of industry & society through assured education with well developed infrastructure which boost the student to get technical as well as academic excellence. According to strategic plan, vision & mission; institute organizes ICASETM in the year 2018.

Example:

Deployment Activity Example: International conference on applied mechanics, Engineering, technology & Management (ICASETM-2018).

Objectives:

- 1.To give an opportunity to faculties of different streams like academicians, professionals, industrialists etc. to share the ideas on a common platform.
- 2.To appreciate & encourage the work of individuals for their sincere effort which will be beneficial to society.
- 3.Made available the work done by the individuals/participants among the stakeholders of the institution.

Preparation for the Symposium:

The ICASET-2018 symposium started with the memorandum between the institute & the IFERP-institute for Engineering Research & Publication, Chennai with the prior permission of honorable secretary RDTC campus. Preparation of symposium is started with formation of organizing committee which leads the symposium as well as responsible for smooth conduction of symposium ICASET-2018. This committee formed by collective efforts of members of governing body & faculties of institute. Budget preparation, campaigning, registration, venue & schedule planned by organizing committee.

Deployment of symposium:

For smooth functioning of symposium the organizing committee form the deployment plan and distribute the various activities under different heads. Deployment of symposium work configured under different heads such as organizing committee, promotion committee, registration committee, event managing committee, refreshment committee etc.

Execution of the Symposium:

The symposium started with inaugural function which was honored by the presence of academics, scientists, professionals & industrialists from various streams.

The conference was launched with warm welcoming address from organizing secretary of conference & welcomed the guest and stating the importance and identity of this conference.

After the inauguration function the respected chief guest addressed the academicians, researchers & faculties to use the opportunities for sustainable development of society by the application of engineering technology.

After the keynote session the academic session started at various departments. It consists of expert lectures & paper presentations.

After the academic session in a valedictory session the certificates are distributed to the authors who presented papers.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document
Strategic Plan and deployment documents on the website	View Document

6.2.2 Organizational structure of the institution including governing body, administrative setup, and functions of various bodies, service rules, procedures, recruitment, promotional policies as well as grievance redressal mechanism

Response:

Governing body

Governing Body is responsible for Policy making and to verifying the reports through the secretary & correspondent. The decision making procedures are made at appropriate levels in the organizational hierarchy. Statutory body such as IQAC Cell is also included in the organizational structure of the institution. A committee comprising of faculty members and administrative staff are involved in the planning and implementation, academic audit and evaluation. There are different bodies that give academic and administrative leadership to the institution.

Organizational structure

Organizational structure of the institute is monitor by the management. The governing body is constituted as per the guidelines of competent authorities.

As per the guidelines from governing body, academics & administrative departments are lead by the Principal, Deans & HODs. IQAC cell works to maintain the quality of education in the institution through Principal. Different functional committees/cells consisting faculty members & students are worked under administration & academic which are lead by Deans.

Governing body takes the decision as per the requirements & benefits of institute. The decision of management executes through the principal and heads of academics & administration. The college has various cells to conduct different activities and programs. All the respective cells are working through the guidelines set by IQAC (Internal Quality Assurance Cell). Other cells like Academic Monitoring Cell (AMC), Research and Development (R & D), Industry Institute Interaction Cell (IIC), Entrepreneurship Development Cell (EDC), examination cell, anti-ragging cell, alumni cell, National Social Service Cell (NSS), grievance redressal

Cell etc. are functioning at institute level

The heads of department along with teaching and non-teaching staff works in coordination with AMC.

Office superintendent (OS) is responsible for office administration. OS leads student section, scholarship section, account section and establishment section. Audits are done by different cells for effective &

smooth functioning of administration.

Individual cells have its own policies.

Decentralization & participative management is achieved through hierarchical organizational structure.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

6.2.3 Implementation of e-governance in areas of operation

- 1.Planning and Development
- 2.Administration
- 3.Finance and Accounts
- 4.Student Admission and Support
- 5.Examination

A. All 5 of the above

B. Any 4 of the above

C. Any 3 of the above

D. Any 2 of the above

Response: A. All 5 of the above

File Description	Document
Screen shots of user interfaces	View Document
ERP Document	View Document
Details of implementation of e-governance in areas of operation Planning and Development,Administration etc	View Document
Any additional information	View Document

6.2.4 Effectiveness of various bodies/cells/committees is evident through minutes of meetings and implementation of their resolutions

Response:

The institution has various committees/bodies/cells for quality assurance of the academic and administrative activities are as follows:

Sr. No	Name of the Committee	Name of Chairman	Department
1	Internal Quality Assurance Cell (IQAC)	Prof. Dr. S. B. Patil	E &TC Engineer
2	SC/ST Reservation Committee	Prof. N. D. Bagul	Mechanical Eng
3	Anti Ragging Committee	Prof. Dr. S. B. Patil	E &TC Engineer
4	Counseling and Emergency Medical Care Committee	Prof. R. B. Raut	Applied Science
5	Alumni Association Activities Committee	Prof. O. R. Girme	Mechanical Eng
6	Library Committee	Prof. J. J. Bandal	E & TC Engineer
7	National Service Scheme Committee (NSS)	Prof. T. M. Dudhane	E & TC Engineer
8	Academic Monitoring Committee	Prof. D. B. Shelke	Mechanical Eng
9	Cultural Committee	Prof. D. U. Dalvi	E &TC Engineer

Example: National Service Scheme

NSS cell which has been established with an objective of providing a dais for the interested students to participate in social work during their free time. Committee recommends questioning the various social aspects and providing necessary solution to create awareness about the social issue and take necessary step with the help of students. Taking into consideration all the social issues, the Institute has arranged the NSS camp for duration 13th Dec 2017 to 19th Dec 2017.

The students of Shri Chhatrapati Shivajiraje college of Engineering participated in the N.S.S camp in our college campus and Bhabawadi, Tal-Bhor, Dist-Pune from 13th Dec 2017 to 19th Dec 2017. The number of student and volunteers participated in the camp was 50 along with 05 faculty members and 01 peon of our college. In this camp, various social awareness programs such as cleanliness program (Swachh Bharat Abhiyan), health checkup camp, AIDS awareness program, Save Water Program, Anti Dowry Movement, Youth Guidance program, Blood checking and Donation Camp, Women Guidance Program, Tree Plantation etc. are arranged and successfully implemented. In the month of October, Our Institute successfully implemented the Plastic Ban Program in Bhabawadi village with the help of NSS volunteers .In the Month of January 2017, Institute arranged Cashless Transaction Campaign with the help of Central Bank of Indian, Sarole Branch.

While implementing NSS activities, the overall personality of the student is developed and the benefit to the society is only a byproduct of the process. These activities seem socio-economically viable and help to encourage community assets and encourage youth involvement in national development perpetuating self-development.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

6.3 Faculty Empowerment Strategies

6.3.1 The institution has effective welfare measures for teaching and non-teaching staff

Response:

Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engineering undoubtedly consider that the teaching and non-teaching staff plays very important role in growth of institute and therefore to provide welfare facilities and services at workplace to provide continuous improvement in the work.

Various welfare schemes are provided for the benefit of teaching and non-teaching staff in the institution are as follows:

1. 10 full days or 20 half days Medical leave per year and 70 days per year for Teaching staff and 30 days per year for non-teaching staff vacation leave is provided
2. On Duty leave 10 days per Academic Year is provided to attend workshops, seminars, FDP's, conferences and Savitribai Phule Pune University Examination duties for all teaching and non-teaching staff.
3. Special Study Leave to pursue higher education.
4. 15 days Marriage leave is given to all teaching and non teaching staff.
5. The institute has provides Doctor on call facility whenever there is a medical emergency in institute. For that we have MOU with Doctor.
6. Institute provides 180 days maternity leave to the female staff according to the norms.
7. Provident Fund Scheme (EPF) is the main scheme under the Employees' Provident Funds and Miscellaneous Provisions Act. All eligible staff members avail the facility.
8. Our Institute provided free uniform to non-teaching staff.
9. Institution provides free transport facility to all non teaching staff.
10. Faculty members opting to stay in hostel are given free accommodation.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

6.3.2 Average percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

Response: 21.78

6.3.2.1 Number of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
09	06	14	37	33

File Description	Document
Details of teachers provided with financial support to attend conferences,workshops etc. during the last five years	View Document
Any additional information	View Document

6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years

Response: 2.8

6.3.3.1 Total number of professional development / administrative training programs organized by the Institution for teaching and non teaching staff year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
05	03	04	01	01

File Description	Document
Reports of the Human Resource Development Centres (UGC ASC or other relevant centres).	View Document
Reports of Academic Staff College or similar centers	View Document
Details of professional development / administrative training programs organized by the Institution for teaching and non teaching staff	View Document
Any additional information	View Document

6.3.4 Average percentage of teachers attending professional development programs viz., Orientation

Program, Refresher Course, Short Term Course, Faculty Development Program during the last five years

Response: 53.27

6.3.4.1 Total number of teachers attending professional development programs, viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Programs year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
33	54	41	61	46

File Description	Document
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers).	View Document
Details of teachers attending professional development programs during the last five years	View Document
Any additional information	View Document

6.3.5 Institution has Performance Appraisal System for teaching and non-teaching staff

Response:

Institution has Performance Appraisal System for teaching and non-teaching staff. Performance appraisal is done annually at the end of Academic Year.

The process of appraisal of teaching and nonteaching staff is discussed as follows.

A systematic Performance Appraisal System for evaluation of faculty members which includes three parts the following parameters:

1. Personal Information, Status of Appointment, Qualification, FDP/SDP/MDP/Continuing education Programs/Industrial training etc. attended, Participation in Seminar/ Workshop/ Conference, Seminar/ Workshop/ Conference/ Courses conducted as a co-ordinator, Consultancy work and/or Externally funding research projects, Research Publications, Member of professional bodies, Industrial lesson, Patent obtained, Academic results, Guest lectures, Participation in Co-curricular, Extracurricular and other activities.
2. Performance Appraisal assessment by head of department considering Quality Assessment committee remarks.
3. Remark by Principal.

The review of performance appraisal reports are assessed and remarked by Quality Assessment committee(QAC) as per necessary support should be provided by the faculty upon request by Academic Monitoring Committee. The outcome of performance appraisal reports is used for reviewing the annual

progress of faculty. After scrutiny of performance appraisal reports by Quality Assessment committee, the Head of the department offering grades/remarks and submits the reports to the top management through the principal remark. Also personal counseling and remedial action is taken for non-satisfactory performance.

The performance of non teaching staff is observed and evaluated by HOD on the basis of Regularity and punctuality, cooperation and coordination, Accuracy in work, Neatness and tidiness of work, Involvement in departmental and institute activity, job knowledge and skills, computer literacy, Quality in work and understanding of job responsibilities, etc. and submits the reports for principal remark.

File Description	Document
Any additional information	View Document

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

Internal Audit is performed by officials deputed from Rajgad Dnyanpeeth Trust office periodically and the reports are obtained before conduct of the external audit which is normally done after the closure of the accounts in all respects. The internal audit of the Institution is carried out on 12/06/2018 for the period of 1 Oct. 2017 to 31 March 2018 (financial year 2017-18). During the Internal Audit, the internal auditor checks receipts with fee receipts, Bank details, cash in hands, cash flow, payment of suppliers, salary statement, payments with vouchers and necessary supporting documents. Also ensures that all payments are duly authorized.

Subsequently, the external audit is carried out by V. A. Dudhedia & Company. The external auditor conducts statutory audit at the end of financial year. The external audit is conducted on 21st Nov. 2018 (financial year 2017-18). Audit work for the academic year 2016-17, 2015-16, 2014-15 and 2013-14 is also performed by same auditor. The final audit reports with audit findings are submitted to the Management. The consolidation of the findings of the Institutions with Trust office has been completed and the annual returns have been submitted to Income tax Authorities concerned.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

6.4.2 Funds / Grants received from non-government bodies, individuals, Philanthropists during the last five years (not covered in Criterion III) (INR in Lakhs)

Response: 10.14

6.4.2.1 Total Grants received from non-government bodies, individuals, philanthropists year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
0.745	5.21	0.466	00	3.72

File Description	Document
Details of Funds / Grants received from non-government bodies during the last five years	View Document
Any additional information	View Document
Annual statements of accounts	View Document

6.4.3 Institutional strategies for mobilisation of funds and the optimal utilisation of resources

Response:

The Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engineering is self financed unaided private institute.

The prime source of income for institute is fees received from students, reimbursements of students scholarship by State Government, donations / grants (if any) , bank interest received and other miscellaneous income like Fine, Certificate Charges, Hostel Fine etc.

The Institute Management has a well-defined procedure to monitor effective and efficient utilization of available resources for infrastructure development and teaching learning process.

Department heads, in consultation with the department laboratory in-charge and other faculty and various committee heads place the budget to the principal every year.

The principal reviews requirements and present the budget to management for the approval. After approval of Management institute distributes the allocated funds within the departments, then the department plans the purchases as per the allocated funds. Provision is also made for emergency expenditure.

In case of any additional funds required for other activities has been provided such as attending seminars / workshops / conferences / technical competitions. The concerned faculty is instructed to produce a detailed report of fund utilization.

The Accounts Section of the Administrative office verifies the expenses against the sanctioned amount carried out under various institutional / departmental activities from the supporting documents and gives their remarks for the final settlement. Internal and external audits are carried out once in every financial year by the Chartered Accountant to ensure proper utilization of the funds.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

6.5 Internal Quality Assurance System

6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

Response:

The institute has constituted Internal Quality Assurance Cell (IQAC) which plays vital role to enhance the teaching-learning process. It also focuses on overall development of students through certificate programmes for skill development, training programmes, co-curricular and extra-curricular activities that expand their knowledge. IQAC has mechanisms for academic auditing and adopting quality management strategies in all academic and administrative aspects.

The initiatives taken by the committee is elaborated as below.

A. Arrangement and successful conduction of National conference on research, design and development in engineering, management & sciences-2016 (NC-RDD-EMS-2016) in association with AES journal of Engineering, Technology & Management (AES):

The IQAC has suggested to organizing national level conference for encouraging faculties and students. The institution has organized national Conference on “Research, Design and Development in Engineering, Management & Sciences 2016 in association with **AES journal of Engineering, Technology & Management**, which was conducted by Electronics and Telecommunication Engineering Department on 20th march 2016. There were total 97 faculties and Students participated in the conference and 379 papers were presented and published in **AES journal**.

B. Industry Institute Interaction:

Industry Institute Interaction under the guidance of Principal and Management members of our college is initiated. Every department is geared up to provide its quality services not only in employment to students during studies, but also their employability through well planned and organized training and personality development programs and their development to face the corporate world. Under the MoU's made with the various industries and institutes, the training/certification programs, grooming programs, group discussion with special emphasis on soft skills for the needful development of the students as an essential part of our academics. Several MOU's are signed with various Companies and Training Organization for enhancing the skill set of the students for their future recruitment.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms

Response:

Example 1: Institutional review of teaching learning process through course file:

The teaching-learning process is effectively enhanced by improving quality of course file content. AMC reviews its teaching, learning process, structures & methodologies of operation and learning outcomes. The course file consist Lesson Plan so each faculty prepares a detailed lesson plan for each course at the beginning of the semester, based on the Academic Calendar, Class Time Table, Personal Time Table, Student roll call list, Syllabus Structure & Syllabus, CO, CO-PO Mapping, Course attainment, Lecture planning Sheet, Teaching plan per unit, Chapter wise notes, Result analysis of last three years, Unit test record, University question papers, Question bank, Content beyond syllabus. . This information conveyed through ERP tools being adopted by the faculty members, also available to all the stake holders to achieve the expected outcome.

Example 2: Feedback System

The institution has well-defined and formal feedback system implemented for improving teaching learning process.

Student feedback regarding the teaching-learning process is also collected from students, twice in every semester (mid semester and end semester), on all the subjects are taken from the students. The feedback is analyzed and evaluated by the Heads of Departments and principal. Every teacher is provided with a copy of feedback for making necessary corrections. Further, teachers are counseled and appropriate suggestions are given to the faculty by the head of the department, academic coordinator and Principal if required. The feedback from mainly focused on the various teaching skills of the faculty members, like presentation, communication, knowledge, content covered, innovative practices and laboratory work.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

6.5.3 Average number of quality initiatives by IQAC for promoting quality culture per year

Response: 5.4

6.5.3.1 Number of quality initiatives by IQAC for promoting quality year-wise for the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
07	09	07	03	01

File Description	Document
Number of quality initiatives by IQAC per year for promoting quality culture	View Document
Any additional information	View Document
IQAC link	View Document

6.5.4 Quality assurance initiatives of the institution include:

1. Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback collected, analysed and used for improvements
2. Academic Administrative Audit (AAA) and initiation of follow up action
3. Participation in NIRF
4. ISO Certification
5. NBA or any other quality audit

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: D. Any 1 of the above

File Description	Document
Details of Quality assurance initiatives of the institution	View Document
Any additional information	View Document
Annual reports of institution	View Document

6.5.5 Incremental improvements made during the preceding five years (*in case of first cycle*) Post accreditation quality initiatives (*second and subsequent cycles*)

Response:

Our institution has progressed well in last five years. Following is the list of improvements in various categories such as infrastructures, improvements in library infrastructure, quality of students, quality of staff members, improvements in research & development, etc.

1. Academic Improvement					
Particulars	2013-14	2014-15	2015-16	2016-17	
Teaching learning process	Traditional teaching learning approach			Students centric approach	learning re
Teaching learning methodology	Chalk & duster	Adoption of LCD projector for presentation		Improved method through	NPTL lectures, project-
Teaching Learning support	Subject notes, question papers & solutions		Focus on groups through TG activity		
Teacher student contact hours	As per university norms		Additional hour per week per subject as compared to norms		
Evaluation Reforms	University exams	Internal & University exams	Mock orals & Practical exams before university exams		

1. Administrative Improvement					
Particulars	2013-14	2014-15	2015-16	2016-17	
Faculty Performance	Offline Staff Appraisal Form		Offline Staff Appraisal Form & Student		
Academic Monitoring	Traditional through HOD				
Governance	Traditional			E-Governance	
Maintenance	Traditional			Central	
Infrastructural improvement	As per norms		As per industry requirements		
Internet	06 Mbps Bandwidth	04 Mbps Bandwidth	46 Mbps Bandwidth	46 Mbps Bandwidth	52
Library	8312	8726	9262	9566	

File Description	Document
Any additional information	View Document

NAAC

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Number of gender equity promotion programs organized by the institution during the last five years

Response: 8

7.1.1.1 Number of gender equity promotion programs organized by the institution year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
01	03	02	01	01

File Description	Document
Report of the event	View Document
List of gender equity promotion programs organized by the institution	View Document
Any additional information	View Document

7.1.2

1. Institution shows gender sensitivity in providing facilities such as:

1. Safety and Security
2. Counselling
3. Common Room

Response:

a) Safety and Security

- Institute inhabits safe working and learning environment. It is committed for providing a healthy and safe campus for the students and related fraternity coming under this purview. The campus security works consciously to keep in and out records of the visitors. Security monitoring system keeps the records of vehicles in the campus.
- The Transport Facilities of college follows the Safety and Security rules for pick up and drop facility to girls and boys students. Transportation system provides the safe travel and follows the in and out time. Bus ridership benefits everyone.
- All hostels are supervised by wardens and staff. Female faculty members ensure about the safety and security for all hostel girl students. All communication regarding any problem of a girl student must be routed by the wardens. Prior permission of warden is being taken.
- Institute has main entry with continuous monitoring by the security and CCTV cameras. The

location of cameras is placed at main entry, boy's hostel and girl's hostel. A Wi-Fi system is available in the college campus.

- First Aid box and Fire Extinguisher is placed in every department.
- Student's health checkup is carried out in every year and also provide health insurance to them.
- The campus of college follows the UGC regulation about Anti-Ragging policy. Anti-Ragging Committee is formed in the college. The function of Anti -Ragging Squad will be to keep a lookout and stop the incidences of ragging. Ragging is strictly prohibited in the college. If any happening or reported the student will be punished as per Ragging Act 1999.
- Institute has already displayed emergency contact number in college campus.

b) Counseling

- Counselor provide the valuable assistance to student. Counselors have responsibility of counseling students in different prospective like health, academic and professional skills.
- Academic counseling helps to identify strengths and weaknesses of students.
- Guardian Teacher activity is taking by faculty which helps to improve the student progress. Faculty communicates with parents for the attendance and academic progress. The department providing the necessary guidance and assistance to students. Faculty - students ratio is design in such way that it keeps the track of every student. Faculty monitors the academic progress throughout the year.
- Institute has appointed a Medical Counselor for the students, this creates the importance of awareness about the health.

c) Common Room

- Separate Common Room facility is available for the boys and girls. It has sufficient area and infrastructure, First-Aid box and with clean and fresh environment.

File Description	Document
Any additional information	View Document

7.1.3 Alternate Energy initiatives such as:

1. Percentage of annual power requirement of the Institution met by the renewable energy sources

Response: 50.98

7.1.3.1 Annual power requirement met by the renewable energy sources (in KWH)

Response: 137000

7.1.3.2 Total annual power requirement (in KWH)

Response: 268730

File Description	Document
Details of power requirement of the Institution met by renewable energy sources	View Document
Any additional information	View Document
Link for Additional Information	View Document

7.1.4 Percentage of annual lighting power requirements met through LED bulbs

Response: 11.64

7.1.4.1 Annual lighting power requirement met through LED bulbs (in KWH)

Response: 7145.04

7.1.4.2 Annual lighting power requirement (in KWH)

Response: 61375.44

File Description	Document
Details of lighting power requirements met through LED bulbs	View Document
Any additional information	View Document

7.1.5 Waste Management steps including:

- **Solid waste management**
- **Liquid waste management**
- **E-waste management**

Response:

Waste management Steps includes following:

a. Solid waste management

In Campus canteen approximately 30 kg /day waste material viz. leftover food waste is collected and utilized for producing biogas. It takes 24 hours to convert waste into biogas. This biogas plant specification is volume of digester 2.2 m³ and gas holding capacity of 1.68 m³. The energy generated from the biogas plant is utilized in canteen itself under regenerative objective.

b. Liquid waste management

In Campus liquid waste collected from various places like wash basin, urinals, toilets, water cooler etc. through sanitation system and is connected to septic tank of capacity 240000 liter.

c. E-waste management

In Campus Non-repairable electronic items like computer components, mouse, cables, CDs, chargers, earphones, batteries, Non-working switches, electric cables, etc. is stored properly. Waste bins are made available in the department at various locations. This Collected E- Waste is given to the authorized dealers NGO 'SWaCH' Pune Seva Sahkari Sanstha Ltd. Kothrud-Pune for reuse and disposed articles on e-waste management are also frequently displayed on the Notice Board.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

7.1.6 Rain water harvesting structures and utilization in the campus

Response:

Rain water harvesting structures and utilization in the campus

The Institute has taken initiative for water conservation through rain water harvesting system. To collect rain water from the roof top of buildings the pipes are laid down to recharge ground water by disposing it on the ground. After recharge, rise in ground water table increases the water level in well and bore well. The collected water from bore well utilized for gardening, landscaping, etc. on the campus. The Campus uses a sprinkler irrigation system for gardening and landscaping, which helps in utilization of water resources.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

7.1.7 Green Practices

- Students, staff using
 - a) Bicycles
 - b) Public Transport
 - c) Pedestrian friendly roads
- Plastic-free campus
- Paperless office
- Green landscaping with trees and plants

Response:

The Institution is located in pollution free environment which is surrounded by greenery and mountain.

1) Students and Staff using Public Transport:-

a) Bicycle

The institution motivates staff and students to make use of bicycles. Bicycles are used for travelling by staff and students. A provision of bicycles stand is being provided in the campus parking area.

b) Public Transport

The College provides bus facilities to the students and staff with an aim to avoid the use of individual vehicles and also several initiatives have been taken by students and staff members in utilizing the transport system in order to reduce the carbon emission.

c) Pedestrian friendly roads

The Institution has a pleasant walking environment with paving block road . Students and Staff use pedestrian friendly roads to walk.

2) Plastic-free campus

Institute is encouraging the policy of minimizing the use of plastic in college premises. Plastic cups usage for serving tea is completely banned in college canteen.

3) Paperless office

The Institute has taken initiative for paperless work using Biometric Attendance & ERP-System to promote Paperless Office & Environment Friendly Campus. The Biometric Attendance to Promote Paperless Office, the Staff using Fingerprint & Face Reading attendance system. The ERP Software will help to streamline all the processes including, administration, Student attendance, Courses, Assignments, Question Bank, Teaching Plans and it will also be very useful for managing the database of the students and also coordinating with parents.

4) Green landscaping with Trees and Plants

a. In Campus approximately half acre area is being utilized for gardening and tree plantation, the institute has maintained green environment on its natural eco-friendly campus.

b. Tree Plantation Program is carried out during monsoon period every year to promote protection, preservation, improvement and monitoring of environment in the College Campus.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

7.1.8 Average percentage expenditure on green initiatives and waste management excluding salary component during the last five years

Response: 0.62

7.1.8.1 Total expenditure on green initiatives and waste management excluding salary component year-wise during the last five years(INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
1.7874	1.9293	2.2902	2.2354	0.2525

File Description	Document
Green audit report	View Document
Details of expenditure on green initiatives and waste management during the last five years	View Document
Any additional information	View Document

7.1.9 Differently abled (Divyangjan) Friendliness Resources available in the institution:

1. Physical facilities
2. Provision for lift
3. Ramp / Rails
4. Braille Software/facilities
5. Rest Rooms
6. Scribes for examination
7. Special skill development for differently abled students
8. Any other similar facility (Specify)

A. 7 and more of the above

B. At least 6 of the above

C. At least 4 of the above

D. At least 2 of the above

Response: B. At least 6 of the above

File Description	Document
Resources available in the institution for Divyangjan	View Document
Any additional information	View Document
link to photos and videos of facilities for Divyangjan	View Document

7.1.10 Number of Specific initiatives to address locational advantages and disadvantages during the last five years

Response: 17

7.1.10.1 Number of specific initiatives to address locational advantages and disadvantages year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
4	4	3	3	3

File Description	Document
Number of Specific initiatives to address locational advantages and disadvantages	View Document
Any additional information	View Document

7.1.11 Number of initiatives taken to engage with and contribute to local community during the last five years (Not addressed elsewhere)

Response: 10

7.1.11.1 Number of initiatives taken to engage with and contribute to local community year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
3	3	2	1	1

File Description	Document
Report of the event	View Document
Any additional information	View Document

<p>7.1.12 Code of conduct handbook exists for students, teachers, governing body, administration including Vice Chancellor / Director / Principal /Officials and support staff</p> <p>Response: Yes</p>	
File Description	Document
Any additional information	View Document
URL to Handbook on code of conduct for students and teachers , manuals and brochures on human values and professional ethics	View Document

<p>7.1.13 Display of core values in the institution and on its website</p> <p>Response: Yes</p>	
File Description	Document
Any additional information	View Document
Provide URL of website that displays core values	View Document

<p>7.1.14 The institution plans and organizes appropriate activities to increase consciousness about national identities and symbols; Fundamental Duties and Rights of Indian citizens and other constitutional obligations</p> <p>Response: Yes</p>	
File Description	Document
Details of activities organized to increase consciousness about national identities and symbols	View Document
Any additional information	View Document

<p>7.1.15 The institution offers a course on Human Values and professional ethics</p> <p>Response: Yes</p>	
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File Description	Document
Any additional information	View Document
Provide link to Courses on Human Values and professional ethics on Institutional website	View Document

7.1.16 The institution functioning is as per professional code of prescribed / suggested by statutory bodies / regulatory authorities for different professions

Response: Yes

File Description	Document
Any additional information	View Document
Provide URL of supporting documents to prove institution functions as per professional code	View Document

7.1.17 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties during the last five years

Response: 15

7.1.17.1 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
03	03	03	03	03

File Description	Document
List of activities conducted for promotion of universal values	View Document
Any additional information	View Document

7.1.18 Institution organizes national festivals and birth / death anniversaries of the great Indian personalities

Response:

National Festival Report

1. **Independence Day** is celebrated on every year on 15th August with huge proud and Enthusiasm in college to mark Indian Independence. This is the day when we are celebrating, remembering, and being grateful for the freedom fighters and their sacrifices because of which we all living in a free country. Every year institute arranged programs start with flag hoisting by hands of chief guest, open stage speech and clean India movement in the campus. By organizing such type of events institute does its share to immerse patriotism and awareness to the next generation
2. **Republic Day** is celebrated on 26th January, the constitution and governmental existence came into being and our government thus became a distinct entity and came out of the shadow of the British government. On Republic Day our country officially adopted a constitution. After our constitution we have our own citizen-friendly laws. Republic Day marks the transition from a “dependant” nation to an “independent” one in terms of governmental laws, acts and policies. Every year institute arranged various events such as flag hoisting, Constitution awareness program, Clean India movement in campus.
3. **Teacher’s day** is celebrated every year on 5th of September to honor the contributions of the teachers in our study, society and country. 5th of September is the birth anniversary of Dr. Sarvapalli Radhakrishnan. To remember his work as Teacher in Education we celebrate 5th September as a Teacher Day. Dr. Sarvapalli Radhakrishnan was eagerly devoted towards education and well known as the scholar, diplomat, President of India and most importantly a Teacher, Students organizes the various events with great enthusiasm. Students express their gratitude, thoughts about the teachers. Also they organizes various activities for staff.
4. **Engineer’s Day** -Every year we celebrate it on 15th September, commemorating the birthday of one of the greatest engineers in India so far and a great human being Sir Mokshagundam Visvesvarayya, popularly known as Sir M V. From the invention of the wheel in ancient history to the modern day drones, engineering constructs have provided the vital push for the progress of human technology. Considering the importance of engineers for the growth of nations, countries around the world celebrate the Engineer’s Day. The institute organizes technical events and motivational lectures on occasion of engineer’s day.
5. **ShivJayanti** is being celebrated as the birthday of Great warrior and administrator Shivaji Maharaj which is a grand occasion of the institute. Every year on 19th February his birthday is celebrated on a grand scale. On his birthday, the institute organizes a grand occasion where several processions are held and people dress up like Shivaji Maharaj and his other associates. Several programmes are organized to recognize and remember the great deeds done by this legendary ruler. One of the main features of the celebration involves the passing of the great words by and about Shivaji Maharaj to the younger generation through various means such as speeches from staff and students and bringing the “Shivjyot” from various forts.

File Description	Document
Any additional information	View Document

7.1.19 The institution maintains complete transparency in its financial, academic, administrative and auxiliary functions

Response:

The Institution has complete transparency in financial, academic, administrative and auxiliary functions;

Financial Transparency:

The Fee structure of the institute will be decided by Shikshan Shulk Samittee, Government of Maharashtra. According to decided, fee structure is displayed on the notice board, website and students are paying a fees by Cash (Receipts are given) / Cheques / DD.

Budget is prepared for infrastructure, equipments, guest lectures, visits, seminars, workshops, annual function, conference, technical events etc. before start of every academic year. An audit is carried out by third party at the end of every financial year.

Transparency in Academics:

The Institution has established an internal Academic Monitoring Committee. Department academic coordinator takes review of syllabus coverage after every one month of teaching. Daily attendance of student monitor by guardian teacher. Feedback from students, alumni and stake holders are collected, which is used as effective mechanism of the institute.

Term work mark evaluation is done through continuous assessment sheet. Based on performance of the student term work marks displays on department notice board. Notice related to different academic activities is displayed on notice board time to time.

Transparency in Administration:

Different types of functional committees are formed under the guidance of head of institute. Each committee has its own responsibilities like library maintenance, purchase committee, stock verification, Anti ragging, Women empowerment etc. The reports of all the committees are prepared for necessary improvements.

Auxiliary Function Transparency:

In every Academic Year Student council is formed by inviting applications for different committees and conducting interviews for smooth conduction of events like sports, annual gathering etc.

File Description	Document
Any additional information	View Document

7.2 Best Practices

7.2.1 Describe at least two institutional best practices (as per NAAC Format)

Response:

Best Practices 1

Title of Practice: Reach to Unreached

1. Goal

- To encourage and motivate rural talent towards higher education.
- To promote girls technical education from rural area.
- To investigate the condition of socially and educationally backward classes.
- To create the awareness about government facilities and schemes to higher education.
- To increase the enrollment to higher education from rural area.

2. Objectives of the Practice:

- To motivate rural area students towards higher technical education.
- To provide information about government scheme in technical education and engineering admission process.

3. Context

So many students are located in rural, hilly and drought prone area. The most of the people from rural area are engaged in farming. Most of the country population lives in rural area and hence rural development is prominent factor for the development of nation. For developing country like India the higher education is main backbone. The higher education is an instrument to build future generation. In India most of the higher educational institutes are located in urban area, and hence rural talent gets deprived from the higher education as they don't know the basic information about admission procedure, government scheme for higher education, lack of transportation, etc. Situation is very worse as far as women education is concern.

The practice is in relevance to Moto of Rajgad Dnyanpeeth which is "Prajwalito Dnyanmay Pradeep" (Education for all.) and the statement said by Founder President Hon. Anantraoji Thopte which is "I am much keen on education of boys & girls from hilly & remote area and proud to say that girls outnumber in each faculty of Rajgad Dnyanpeeth". The practice focuses on developing India as knowledge society. The college knows the vital importance of higher education for the national development as it is powerful tool to build knowledge based society. Most of the rural area students are the first generation learners so they must be attracted and retained in higher education and this practice is useful for this reason.

The Practice

Rajgad Dnyanpeeth is started in 1972 in hilly area of Bhor. The basic core value of practice is started since 1972. Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engineering is one branch of Rajgad Dnyanpeeth and it's started in 2009 at Dhangawadi. The practice is aimed at to provide access to rural students in higher education and to increase the enrollment of economically weak and backward communities in the college. The college has formed groups of teachers and allotted villages for a group of two teachers for the propagation and extension of higher education in rural area. The team of teachers visits the allotted village and conducts corner meetings with parents, students and the villagers. The teachers have prepared the lists of alumni of the college, who resides in the village and take their help in the implementation of the practice. The team submits the detailed report of the visits to the principal. The database is prepared on the basis of reports received from the teachers and used for further contact and admission. The team of teachers visits the feeding junior colleges where the prospective students are available and arrange a guidance seminar for students highlighting importance of higher education. The

team of teachers gives information to the students about importance of higher education, the courses available in the higher education, the information about various government schemes and scholarships and concessions available to the students belonging to SC, ST, OBC, NT, SBC and economically weaker section of the society and differently-abled persons. The faculty members give special attention to the academic needs of the students and provide guidance for higher educational opportunities and job opportunities.

4. The Process:

- Campaigning permission from Grampanchayat, School and Junior colleges has taken.
- Seminars are organized in college to motivate the students towards technical education, shared information about career opportunities for engineers in industry.
- Collected the students information and call them by faculties time to time to provide CAP admission process and important dates.
- Preparing the detail campaigning report and submitted to Principal.

5. Evidence of Success:

Sr.No.	Year	Number of students promoted towards higher education
01	2015-16	17
02	2016-17	28
03	2017-18	29
04	2018-19	60

6. Problems Encountered and Resources Required

- Overall perception of rural area people towards women education is negative.
- Early marriages, financial condition and more number of child at home stops girls education.
- Mean of transportation between village to college or city is limited.
- Overall environment between the boys group demoralize the talent from higher education.
-

Best Practices 2

Title of the Practice: PRO-CON

Objectives of the Practice:

1. To Promote and enhance technical competitiveness and research skill.
2. To introduce students to real-world engineering situations and to teach students project-management.
3. To provide opportunities for academics from a range of disciplines and countries to share their research both through the conference podium and

refereed publications.

Context:

Since institute is in a remote place, we realized the need to provide more technical exposure and research skill among students and participants.

The Practice:

All Branches Final year students participates in Project Competition held each year in their individual department. Majority of students of Final year of all branches presents and publishes research paper on their project work in National / International conference held at our Institute every year. Technical knowledge, Technical Competitiveness, Project Handling, Research skill and Presentation skill are enhanced among the students.

Evidence of Success:

Majority of students of Final year of all branches published research paper on their project work. These papers were published in conference proceeding. Majority of students of Final year of all branches participant in project competition. Reports and Photographs are attached in additional information uploaded.

1. Project Competition

Sr. No.	Academic Year	Department	No of Participants group
01	2015-16	Civil Engineering	12
02	2016-17		09
03	2017-18		07
01	2015-16	Mechanical Engineering	20
02	2016-17		15
03	2017-18		12
01	2015-16	Electronics & Tele-Communication	11
02	2016-17		15
03	2017-18		10
01	2015-16	Computer Engineering	08
02	2016-17		10
03	2017-18		05

1. National /International Conference

Sr. No.	Academic Year	No of Participant
01	2015-16	97

02	2016-17	65
03	2017-18	59

Problems Encountered and Resources Required

Mismatch of schedule of the resource persons and Established Location in Remote Area.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

7.3 Institutional Distinctiveness

7.3.1 Describe/Explain the performance of the institution in one area distinctive to its vision, priority and thrust

Response:

The institution is established in the year of 2009 by the trust “Rajgad Dnyanpeeth” which provides education with the significance of “Prajwalitho Dnyanmay Pradeep” (Education for all), the mission of trust is to provide sound technical knowledge to all students with social, ecological values along with communication skill, teamwork and leadership skill which will help them in industry and in the individual.

The vision of the institution is to build an academy of excellence in the field of technical education, especially for rural area students.

The institute is located in the hilly and rural area. Every year, all admitted students, the financial condition is not that much affordable, so every year we trust has launched Scholarship Scheme i.e. ANANT-NIRMAL Scholarship to provide financial help to them for their education through various ways. Since the establishment, an institute supported a total of 1162 students and spend total Amount on them 12628021/-

1. ANANT-NIRMAL Scholarship

The details are as bellows.

Sr. No	Academic Year	Total number of benefits students	Total Financial Assistance
01	2013-14	3	35765/-
02	2014-15	125	877542/-
03	2015-16	222	2458204/-
04	2016-17	328	3871556/-
05	2017-18	484	5384954/-

2. Financial Assistance for Promoting Technical Events.

Every Department gets Financial Assistance from Institute for participation as well as for making Model. Following are the details which show the event name and the amount received by them.

Sr. No	Academic Year	Total Financial Assistance Provided
01	Smart India Hackathon 2017	8020/-
02	Hybrid Car 2017	350000/-
03	SUPRA SAE INDIA 2014	3,60,000/-

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

5. CONCLUSION

Additional Information :

The institute has state of the art infrastructure. Well qualified and experienced staff nurture the students overall development to fulfill the aim of institute is to become excellence in education, training and research in engineering.

The institute has policy to promote staff members for quality improvement. In line with student centric policy, institute focuses on enhanced teaching learning process with emphasis on co-curricular and extracurricular activities for holistic development of students. To ensure all-round development of the student, appropriate flat form is provided in terms of students associations and students council through which students actively participates in trainings and industrial visits, technical festivals, quiz competitions, seminars, conferences, innovation cell activates, NSS, earn and learn schemes, sports, state level cultural and social programs. The institute has signed MOUS with industries and reputed educational institutes and also provides facilities for hands on through campus agreements of licensed software's like Master Cam, Ansys and solid work etc.

The institute has adapted policy of decentralization of work to maintain harmony among the concerned. The overall governance and implementation of students centric polices lead to multidimensional development of the students with success in university examinations, publications, sponsored projects, secured 57th rank in "Maruti Suzuki SUPRA SAE INDIA" at, Chennai. Obtained 3rd rank in "Smart City Competition Pune" State level Competition, secured 18th place in "Hybrid Vehicle Design competition" at Noida, New Delhi, students qualified in the "Smart India Hackathon 2017" competition, good performing employee in public and private sectors and entrepreneurs. Students also opt for higher studies at reputed institutes in India and abroad. Patents have also been filed by faculty members.

Institute is also being awarded three times at national level with "Excellent Emerging Engineering Institute in Rural Area of Maharashtra State" by CMAI, New Delhi in 2016, Best Engineering Institute in Rural areas by ABP News channel in 2017 and Best Emerging Technical Institute Award -2019 by Dr. P. V. Pawar research and innovation center, Nashik, affiliated to Ballsbridge University, Roseau (Dominica).

Concluding Remarks :

It gives me immense pleasure to present the Self Study Report (SSR) of Rajgad Dnyanpeeth's, Shree Chhatrapati Shivajiraje College of Engineering (SCSCOE), Dhangwadi, Pune to the National Assessment and Accreditation Council (NAAC), Bangalore for assessment and accreditation. The report has been prepared as per the prevailing guidelines of NAAC.

SCSCOE is committed to impart quality Engineering education and create opportunities for the deserving students to gain knowledge and skills to face the ever changing social, economical and technical landscape of our country.

This accreditation process will provide us an opportunity to know our strengths and weaknesses along with implementing the suggestions given by the peer team.

Going ahead with these suggestions and continuing with our innovative practices in the teaching learning

processes, the Institute has defined its long term goals comprising of enhancing industry academic collaborations, offering more industry relevant value added courses, efforts for student employability.

Further, we look forward towards initiating our expansion plans with additional branches of engineering and allied domains. We also aspire to acquire Academic Autonomy so as to gain flexibility in designing curriculum that helps to keep pace with rapidly growing industry trends.

It was difficult to complete this Self Study Report (SSR) without cooperation of the entire team of SCSCOE. At first, I would like to thank all the members of the central NAAC committee, Department NAAC coordinators, Heads of the Departments, all faculty and staff members, students and professional guidance from well wishers for their invaluable contributions in the preparation of this SSR. I take this opportunity to specially thank our Management for their whole hearted support for this endeavor.

NAAC

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																				
1.1.3	<p>Percentage of participation of full time teachers in various bodies of the Universities/ Autonomous Colleges/ Other Colleges, such as BoS and Academic Council during the last five years</p> <p>1.1.3.1. Number of teachers participating in various bodies of the Institution, such as BoS and Academic Council year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>03</td> <td>07</td> <td>03</td> <td>02</td> <td>02</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>04</td> <td>03</td> <td>02</td> <td>02</td> <td>00</td> </tr> </tbody> </table>	2017-18	2016-17	2015-16	2014-15	2013-14	03	07	03	02	02	2017-18	2016-17	2015-16	2014-15	2013-14	04	03	02	02	00
2017-18	2016-17	2015-16	2014-15	2013-14																	
03	07	03	02	02																	
2017-18	2016-17	2015-16	2014-15	2013-14																	
04	03	02	02	00																	
1.2.3	<p>Average percentage of students enrolled in subject related Certificate/ Diploma programs/Add-on programs as against the total number of students during the last five years</p> <p>1.2.3.1. Number of students enrolled in subject related Certificate or Diploma or Add-on programs year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>753</td> <td>571</td> <td>257</td> <td>108</td> <td>354</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>753</td> <td>571</td> <td>257</td> <td>108</td> <td>354</td> </tr> </tbody> </table>	2017-18	2016-17	2015-16	2014-15	2013-14	753	571	257	108	354	2017-18	2016-17	2015-16	2014-15	2013-14	753	571	257	108	354
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2017-18	2016-17	2015-16	2014-15	2013-14																	
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2.4.4	<p>Percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the last five years</p> <p>2.4.4.1. Number of full time teachers receiving awards from state /national /international level from Government recognised bodies year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>7</td> <td>7</td> <td>4</td> <td>4</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	2017-18	2016-17	2015-16	2014-15	2013-14	12	7	7	4	4	2017-18	2016-17	2015-16	2014-15	2013-14					
2017-18	2016-17	2015-16	2014-15	2013-14																	
12	7	7	4	4																	
2017-18	2016-17	2015-16	2014-15	2013-14																	

2	2	2	2	2
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3.3.3 Number of research papers per teacher in the Journals notified on UGC website during the last five years

3.3.3.1. Number of research papers in the Journals notified on UGC website during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
32	39	53	33	23

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
09	04	10	03	03

3.3.4 Number of books and chapters in edited volumes/books published and papers in national/international conference proceedings per teacher during the last five years

3.3.4.1. Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
33	22	25	13	12

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
21	00	00	01	01

3.4.2 Number of awards and recognition received for extension activities from Government /recognised bodies during the last five years

3.4.2.1. Total number of awards and recognition received for extension activities from Government /recognised bodies year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
02	01	02	00	01

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	00	0

5.3.1 Number of awards/medals for outstanding performance in sports/cultural activities at national / international level (award for a team event should be counted as one) during the last five years.

5.3.1.1. Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one) year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
1	0	0	0	1

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
1	0	0	0	0

6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years

6.3.3.1. Total number of professional development / administrative training programs organized by the Institution for teaching and non teaching staff year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
06	06	06	01	01

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
05	03	04	01	01

7.1.1 Number of gender equity promotion programs organized by the institution during the last five years

7.1.1.1. Number of gender equity promotion programs organized by the institution year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
02	04	03	02	02

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
01	03	02	01	01

7.1.17

Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties during the last five years

7.1.17.1. Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
10	09	08	07	08

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
03	03	03	03	03

2.Extended Profile Deviations

Extended Profile Deviations

No Deviations