

# **SELF STUDY REPORT**

**FOR**

**1<sup>st</sup> CYCLE OF ACCREDITATION**

**DHOLE PATIL COLLEGE OF ENGINEERING, PUNE**

DHOLE PATIL COLLEGE OF ENGINEERING, 1284, UBALE NAGAR, NEAR  
KHARADI IT PARK, WAGHOLI, PUNE, MAHARASHTRA

412207

[www.dpespune.com](http://www.dpespune.com)

Submitted To

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

**BANGALORE**

**August 2018**

# 1. EXECUTIVE SUMMARY

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## 1.1 INTRODUCTION

**DPES's Dhole Patil College of Engineering, Pune;** was established in **2008** in the vicinity of biggest Industrial Hub and IT park belts with an objective of imparting value based quality education. Institute is approved by AICTE, New Delhi and is affiliated to Savitribai Phule Pune University, Pune. DPCoE offers six *Undergraduate Engineering* programs, namely Mechanical, Automobile, Electronics & Telecommunication, Computer, Civil and Information Technology. In addition, it offers M.E. in Mechanical (Design and Heat Power), Computer Engineering, E&TC (VLSI & Embedded Systems) and Master in Business Administration.

The science of today is the technology of tomorrow and DPCoE is committed to impart time-based, student-centric, ethically strong and value-added quality education. Education here is the accretion of our top ideals in hope that it can become a medium to serve nation by developing a highly educated, well-organized and ethical pool of human resource. Our aim is to produce world-class robust engineers and kind human beings capable of converting global challenges into opportunities. We believe that quality education is the only way of molding students into successful Engineers and Technocrats.

Well-designed infrastructure, world class engineering laboratories, focus on quality education and industry interaction, boosting academic performances through institute scholarships, research orientation, investing in faculty development and improvements are the hallmarks of institute. Here, we adopt advanced methods for educating the students making their fundamentals strong and enabling them to implement the same in the innovative technologies. College motivates them to excel in their chosen fields under the able guidance of committed faculties and Management.

### **Vision**

To emerge as the leading institute with National Recognition, where value based technical education and research are emphasized to transform student into professionally competent and socially sensitized engineers.

### **Mission**

1. To offer contemporary education programs with focus on societal equity and access, laying down strong foundations in learning.
2. To empower and motivate faculty towards building their domain expertise in technology and management verticals.
3. To establish and nurture association with industry and elite institutions towards outcome oriented R&D initiatives.
4. To groom all rounded personality of students towards leadership, self employability, self and lifelong learning.
5. To develop multidisciplinary R&D centers, where facilities and resources are shared for well being of society.

## 1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

### Institutional Strength

1. An ISO 9001 : 2015 certified institute .
2. IQAC exists in the college and functions regularly.
3. Governed by visionary, pragmatic and progressive management.
4. College runs student mentoring scheme i.e Teacher Guardian scheme.
5. Society scholarship scheme for deprived meritorious students.
6. College of Engineering Pune is mentor institute for DPCOE under "AICTE MARGADARSHAN SCHEME"
7. Qualified, experienced and dedicated Faculty and Administrative staff.
8. State of the art infrastructure, instructional area and spacious campus.
9. ICT enabled smart class rooms provide enthusiastic atmosphere.
10. Well-equipped spacious library with wide range of books, journals, magazines, online resources, back issues and digital library.
11. Industry oriented courses and laboratory work with the help of Entrepreneurship Development Cell to train the students to become entrepreneurs.
12. Employment opportunities for students are provided through on campus and off campus placement by Training and Placement cell of the college.
13. Hostel facility for boys inside the campus and hostel facility for girls is existing with transport facility.
14. College has well established students association in each department, conduct frequent activities and events related to social awareness and responsibility.
15. Better opportunities are provided for students in the field of Gymnasium and in sports like Table Tennis, Basketball, and Cricket etc.
16. Strong presence of Alumni in the industry at national and at international level as well.
17. Significant success in increasing resources through successful submission of research proposals by the faculty.
18. Learning environment for the students with multiple internship programs, expert lectures, student associations and industrial visits.
19. The college has Centre of Excellence.

### Institutional Weakness

1. Low merit and poor communication skills of the admitted students.
2. Being young faculty, College tries to give more industrial experience and skill development.
3. Due to low placement requirement in certain core industries, more efforts are required to place students in Mechanical and core industrial sector.
4. Less number of faculty with Ph. D and research publications.
5. Consultancy in the area of Interdisciplinary projects and IOT based projects needs to be increased.
6. A few students are GATE-qualified. A few are joining PG courses.
7. Limited curriculum flexibilities as the institute is not autonomous and is affiliated to SPPU,Pune.

### Institutional Opportunity

1. Training on Foreign Languages like German is conducted for the students to enhance their career

prospectus.

2. Upgradation and expansion of laboratories are in process to keep in touch with recent technologies.
3. Continuous process of Alumni networking is done to enhance placement activities and industry institute interaction.
4. More industrial visit to make the students well acquainted with industrial environmental.
5. Time to time interaction with industry experts from Pune and other techno cities for updating and upgrading knowledge and skills of the faculty and students.
6. Conduction of workshops, STTPs and other faculty development programs for teaching and non teaching staff to update their knowledge and skills.
7. MoUs with leading industries are signed for the overall development of the students and faculties.
8. Parents' meet are organized, their feedback are collected and implemented to improve teaching and learning activities. Moreover feedback from alumni and industries are collected to improve overall personality of students.

### **Institutional Challenge**

1. Unpredictable demands of the courses due to rapid change in social and economic scenario.
2. Uncertainty in employment opportunities for engineers.
3. Replacement of obsolete infrastructure in the college requires financial resources.
4. College must utilize all the alternatives for identifying, employing and retaining qualified and experienced faculty.
5. Adaptability in dealing with rapid changes in technology and the industrial requirements.
6. Requirement of extra resources to provide advanced practical knowledge to the students due to academic inflexibility.
7. Attracting meritorious students for getting admission in the institute.
8. Unpredictable and declining quality of students is a hurdle in achieving good academic performance.
9. Weakness of students due to their rural background.
10. Lack of awareness about exposure to education, technology and competitions among parents.

## **1.3 CRITERIA WISE SUMMARY**

### **Curricular Aspects**

Dhole Patil College of Engineering is affiliated to the SPPU, Pune. The curricular activities in the college are conducted as per the curriculum set and updated by the University time to time. Effective curriculum delivery is carried out by well planned documented process. The faculty members involve in curriculum design and development by participating and conducting syllabus revision workshops. The inputs of stake holders such as students, faculty, parents and alumni are accounted in designing the curriculum. Academic flexibility is achieved by offering various electives during curricular activities and bridging the gap between curriculum and industry is achieved by organizing value added enrichment courses, seminars, guest lectures, hand on practice workshops, industrial visits, internships and MoU with firms. The college encourages self-employment by conducting Entrepreneurship Development Programs time to time. The college caters the needs of slow learners by remedial classes. Social awareness and community service qualities are inculcated among the students by participating in extracurricular activities.

## **Teaching-learning and Evaluation**

Teaching learning and evaluation process details about the efforts of an institution to serve students of different background and abilities through effective teaching learning experiences. The admission of the students to the institute is in accordance with DTE Maharashtra State. The students are admitted through the centralised admission process and management rules pertaining to the process prescribed by DTE Mumbai.

The institute has well qualified faculty with fair retention ratio and state-of-the-art infrastructural facilities. DPCoE has student mentoring scheme i.e Teacher Guardian scheme wherein faculties guide and counsel the students.

All the departments of the DPCoE synchronize their academic curriculum as per the academic calendar issued by SPPU. Department of the institute encourages the use of ICT based teaching learning process and also encourages the participation of faculty and students in national and international events like ROBOCON, GOKART, SUPRA, BAJA etc. Equally institute promotes their students to participate in cultural activities such PURUSHOTTAM KARANDAK, FIRODIYA KARANDAK etc.

The institute has well established academic monitoring committee since its inception and recently DPCoE has established Internal Quality Assurance Cell [IQAC] from the academic year 2016-17 as per the guidelines of NAAC.

## **Research, Innovations and Extension**

DPCoE has recognised Undergraduate Programs in Civil Engineering, Automobile Engineering, Mechanical Engineering, Electronics and Telecommunication Engineering, Computer Engineering and Information Technology as well as Post Graduate programs in Mechanical Engineering (Heat Power & Design), Electronics and Telecommunication (VLSI & Embedded systems), Computer Engineering and Master of Business Administration (MBA). DPCoE has an active unit of centre of excellence for providing hands on experience for the students to meet requirements of the present scenario in the field of engineering and technology. Institute has also an budding incubation centre for guiding the students and faculty to take up their own start ups to meet the dreams of make in India.

Institute started allocating funds for the research and development related activities since AY 2014-15. DPCoE has already sanctioned defined funds under R&D activity for various research projects, student's projects and other national level research competitions. The institute has shown its keen interest in signing MoU's with various industries and agencies for promoting training, research and extension activities in technical education. The institute has a privilege to be a mentee institute of its mentor "College of Engineering, Pune (COEP)" and has undergone MoU with the same for the upliftment and fulfilment of its vision. The institute has functional MoU with various recognised organizations.

## **Infrastructure and Learning Resources**

DPCoE has excellent infrastructure with state-of-the-art laboratories with adequate facilities to maintain the quality of academics and other programs in the campus. The infrastructural facilities are met as per the requirement from time to time to keep pace with the academic development and growth in the intake. The institute has well established central library with adequate number of reference and text books to cater the basic

needs of the students as per the curriculum and from innovative ideas in the field of engineering and technology. E-books and E-journal/ Online Journals are also available for the students to cater their advance knowledge.

All the departments of DPCoE have adequate facilities both in terms of hardware and software with latest configuration. The institute has provided internet facilities having speed of 100 Mbps 24X7. Maintenance of the equipments is carried out time to time to upkeep the infrastructural facilities and promote the use of the same.

### **Student Support and Progression**

DPCoE is self financed. It admits student from all over India. The students are informed about the Scholarship and Freeship provided by State and Central Government of India. The college also provides scholarship to meritorious and financially weak students under Kamaltai Ulhas Dhole Patil Scheme.

DPCoE provides platform for student's Co-curricular activities. The students are guided for Competitive Examinations such as GATE, GRE and Civil Services. DPARDS helps the students in Softskill and Personality development. Various Bridge Courses are arranged by the departments to bridge the gap between academics and Industry. A full time trained counsellor is available on campus and students can refer to her with prior appointment for psychological counselling. Yoga, Meditation and Sports facilities are available in the campus with trained Physical Director.

T&P Cell of the college provides complete assistance to placement.TPO and all Staff members guide students for their career. Students are placed on Campus and off campus according to the industry requirement.

Apart from Academics various sports and cultural activities are also conducted in the campus. All the activities are planned and well executed by the students. The college also has ICC and Anti- Ragging Committee to address the grievances.

The college has a registered alumni association. The alumni are young and many of them are still pursuing their higher studies. However, due to the excellent rapport shared by our teaching as well as non-teaching staff with our students, the alumni are in regular touch with the college. College also has First Generation Entrepreneurs..

### **Governance, Leadership and Management**

DPCoE promotes overall development of students and faculty through effective teaching and learning process. Also, various initiatives are taken by the institute to achieve the goal of the institute. The institute has Governing Body and Local Managing Committee as per the rules and regulation of Maharashtra state government and SPPU. Local Management Committee plays an important role in the effective implementation of academics and college administration. Roles and responsibilities of academics and college administration are well defined as per organizational structure through different committees. The members of these committees play vital role in accomplishment of all the activities of the institute and help to improve the overall development of the institution.

Various committees are formed in the institute for the proper functioning, monitoring and endeavour for the betterment of the quality of education. The management provides platform for students, faculty and supporting

staff to explore their strength through involving and performing in various committees towards enhancement of the quality education.

DPCoE has implemented Internal Quality Assurance Cell comprises of head of departments and senior faculties. IQAC plays a key role for effective teaching learning process and overall development of the institute. IQAC committee visits all the departments, monitors the functioning of the academics and maintains the record for the improvement in academics and administration.

Governing body of the institute has prescribed code of conduct for teachers, students and higher authorities of the institute to maintain discipline in the institute.

### **Institutional Values and Best Practices**

The committees are formed with women's representatives to resolve gender sensitivity and social security concerned issues in the college. The college arranges transportation facility to students and staff. The TG and faculty monitor and counsel students in individual level to deal with their social concerns.

The college looks after various options to minimize the production of wastes. Paper products, metal chips and E-wastes generated are disposed to vendors. The college intends to establish sewage treatment unit in the campus to segregate water and use it for gardening and construction sites after physical treatment and biogas production. Our students prepared the project report on rainwater harvesting to aid water management.

An ERP module is purchased and most of administrative work is undertaken using the module. The campus has covered almost area by trees and plants for sustainable or eco-landscaping to minimize air, water, and soil pollution. Regular plantation drives are organized by NSS unit of students.

DPCoE regularly organizes national festivals and birth/death anniversaries of great personalities.

The academic audit is undertaken by IQAC with assistance of ISO coordinators.

Our students participate in the technical events like SAE SUPRA, BAJA, Go KARTING, ROBOCON, etc. The college intends to support such activities. Software proficiency courses like CATIA, PRO-E, JAVA, ASP.NET, C++, AUTO CAD, STAAD PRO, MATLAB, HADOOP etc.. are organized.

DPCoE has established scholarship scheme viz. "Kamaltai Ulhas Dhole Patil Scholarship" for financially weaker and deprived students.

## 2. PROFILE

### 2.1 BASIC INFORMATION

Name and Address of the College	
Name	DHOLE PATIL COLLEGE OF ENGINEERING, PUNE
Address	Dhole Patil College of Enineering, 1284, Ubale Nagar, Near Kharadi IT Park, Wagholi, Pune, Maharashtra
City	Pune
State	Maharashtra
Pin	412207
Website	<a href="http://www.dpespune.com">www.dpespune.com</a>

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Nihar Shripad Walimbe	020-66059900	9922197774	020-	dpcoepune@gmail.com
Professor	Shirsat Uddhav Maroti	020-	9049300608	-	shirsatum@yahoo.com

Status of the Institution	
Institution Status	Private and Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular Day Evening

Recognized Minority institution	
If it is a recognized minroity institution	No



<b>Establishment Details</b>				
Date of establishment of the college		01-01-2008		
<b>University to which the college is affiliated/ or which governs the college (if it is a constituent college)</b>				
<b>State</b>	<b>University name</b>	<b>Document</b>		
Maharashtra	Savitribai Phule Pune University	<a href="#">View Document</a>		
<b>Details of UGC recognition</b>				
<b>Under Section</b>	<b>Date</b>	<b>View Document</b>		
2f of UGC				
12B of UGC				
<b>Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)</b>				
<b>Statutory Regulatory Authority</b>	<b>Recognition/Approval details Institution/Department programme</b>	<b>Day,Month and year(dd-mm-yyyy)</b>	<b>Validity in months</b>	<b>Remarks</b>
AICTE	<a href="#">View Document</a>	04-04-2018	12	Approval for one Academic Year

<b>Details of autonomy</b>	
Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	No

<b>Recognitions</b>	
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

<b>Location and Area of Campus</b>				
<b>Campus Type</b>	<b>Address</b>	<b>Location*</b>	<b>Campus Area in Acres</b>	<b>Built up Area in sq.mts.</b>
Main campus area	Dhole Patil College of Engineering, 1284, Ubale Nagar, Near Kharadi IT Park, Wagholi, Pune, Maharashtra	Rural	14.3	13750.2

## 2.2 ACADEMIC INFORMATION

<b>Details of Programmes Offered by the College (Give Data for Current Academic year)</b>						
<b>Programme Level</b>	<b>Name of Programme/Course</b>	<b>Duration in Months</b>	<b>Entry Qualification</b>	<b>Medium of Instruction</b>	<b>Sanctioned Strength</b>	<b>No.of Students Admitted</b>
UG	BE,Information Technology	48	HSC Science	English	45	44
UG	BE,Mechanical Engineering	48	HSC Science	English	90	70
UG	BE,Electronics And Telecommunication Engineering	48	HSC Science	English	90	25
UG	BE,Automobile Engineering	36	Diploma	English	45	41
UG	BE,Automobile Engineering	48	HSC Science	English	45	41
UG	BE,Computer Engineering	36	Diploma	English	45	21
UG	BE,Computer Engineering	48	HSC Science	English	45	45
UG	BE,Civil Engineering	48	HSC Science	English	45	29

PG	ME,Mechanical Engineering	24	BE B Tech GATE	English	15	6
PG	ME,Mechanical Engineering	24	BE B Tech GATE	English	15	14
PG	ME,Electronics And Telecommunication Engineering	24	BE B Tech GATE	English	15	15
PG	MBA,Master In Business Administration	24	Any Graduate	English	45	45
PG	ME,Computer Engineering	24	BE B Tech GATE	English	15	14

**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	10				35				72			
Recruited	1	0	0	1	0	0	0	0	20	17	0	37
Yet to Recruit	9				35				35			
Sanctioned by the Management/Society or Other Authorized Bodies	9				35				75			
Recruited	1	0	0	1	0	0	0	0	43	32	0	75
Yet to Recruit	8				35				0			

<b>Non-Teaching Staff</b>				
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
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				38
Recruited	33	5	0	38
Yet to Recruit				0

<b>Technical Staff</b>				
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
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				23
Recruited	18	3	0	21
Yet to Recruit				2

### 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.	2	0	0	0	0	0	0	0	0	2
M.Phil.	0	0	0	0	0	0	1	0	0	1
PG	0	0	0	0	0	0	20	17	0	37

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	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	43	32	0	75

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

<b>Details of Visting/Guest Faculties</b>				
<b>Number of Visiting/Guest Faculty engaged with the college?</b>	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
		13	0	0

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

<b>Programme</b>		<b>From the State Where College is Located</b>	<b>From Other States of India</b>	<b>NRI Students</b>	<b>Foreign Students</b>	<b>Total</b>
UG	Male	193	31	0	0	224
	Female	42	6	0	0	48
	Others	0	0	0	0	0
PG	Male	58	21	0	0	79
	Female	11	4	0	0	15
	Others	0	0	0	0	0

<b>Provide the Following Details of Students admitted to the College During the last four Academic Years</b>					
<b>Programme</b>		<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>
SC	Male	48	36	26	45
	Female	9	8	14	9
	Others	0	0	0	0
ST	Male	0	1	0	2
	Female	0	0	1	0
	Others	0	0	0	0
OBC	Male	115	106	87	115
	Female	11	16	10	22
	Others	0	0	0	0
General	Male	381	312	248	276
	Female	104	80	43	90
	Others	0	0	0	0
Others	Male	63	43	44	39
	Female	12	4	5	7
	Others	0	0	0	0
<b>Total</b>		<b>743</b>	<b>606</b>	<b>478</b>	<b>605</b>

### 3. Extended Profile

#### 3.1 Program

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

Response: 284

File Description	Document
Institutional Data in Prescribed Format	<a href="#">View Document</a>

Number of programs offered year-wise for last five years

2017-18	2016-17	2015-16	2014-15	2013-14
13	13	13	13	13

#### 3.2 Students

Number of students year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1702	1501	2087	1913	1753

File Description	Document
Institutional Data in Prescribed Format	<a href="#">View Document</a>

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
306	306	407	407	407

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

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

2017-18	2016-17	2015-16	2014-15	2013-14
444	536	638	431	390



File Description	Document
Institutional Data in Prescribed Format	<a href="#">View Document</a>

### 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
139	114	102	95	100

File Description	Document
Institutional Data in Prescribed Format	<a href="#">View Document</a>

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

2017-18	2016-17	2015-16	2014-15	2013-14
164	164	164	156	156

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

### 3.4 Institution

#### Total number of classrooms and seminar halls

**Response: 37**

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

2017-18	2016-17	2015-16	2014-15	2013-14
449.59	344.40	378.52	495.13	376.61

#### Number of computers

**Response: 576**

## 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:**

**Goal:**

Effective curriculum delivery has to impart holistic value based quality education to the students to make them competent and confident to face challenges in a global environment. The objectives are to achieve high standard in academics, employment and research to build knowledge and skills with modern tools to pioneer in technology and empower the system.

**Internal Quality Assurance Cell (IQAC):**

Prior to commencement of each semester, IQAC organizes meeting for academic planning and curriculum strategy. Subjects are allotted to the faculty by head of department based on their expertise, experience, skills and feedback by students.

**Academic record:**

The teachers maintain academic record book for each subject which consists of the following

(a) Academic calendar: It serves as an information source and documented planning for faculty, students, departments and outside organizations. The calendar includes course commencement, actual number of working days, co-curricular and extracurricular activities and examination dates.

(b) Syllabus copy: It consists of course contents

(b) Teaching plan: It is best practice adopted in teaching and learning based on need and interests of students.

(c) Record of initial briefing and pre-course survey: It emphasizes basic knowledge of learner, rating, pedagogical approach to be adopted and learning objectives with the expectations of students from faculty and organization.

(d) Review of teaching plan: It emphasizes course plan and actual coverage. The discrepancies and action taken report by the faculty is reviewed in fifth and tenth week. Suggestions from students, self realization, required amendments in lesson plan and action taken reports are endorsed by the authority such as requirement for extra classes and subject study material are reviewed.

(e) Post course survey: mode of dissemination of knowledge, time adequacy to cover the course, gap between the course and latest technological developments and steps taken to minimize the gap are

highlighted. Remark on meeting of Program Objectives and Program Educational Objectives are mentioned.

The tests and in-semester examination are conducted for effective delivery of curriculum. Fortnightly students regularity report, internal assessment tests and in semester examination performance reports are tabulated for corrective measures in the academic record.

#### Gather resources:

Faculty gathers online and offline resources for their allotted subjects and prepares the lesson plan for their respective subjects with the view to meet unit wise objectives. The subject teachers identify gap between subject contents and industrial requirements. Faculty prepares handwritten notes and PPTs for their respective subjects. Faculty maintains and updates laboratory manuals time to time. Faculty prepares multiple choice questions, descriptive and oral question banks for the subjects. Monitoring, controlling, directing and remedial actions are taken periodically to assess students about effectiveness of teaching-learning process. Special guidance scheme is introduced for first year to enhance academics.

Departments organize guest and expert lectures from industries, institutes and entrepreneurs. They arrange value added skill development courses, add-on courses and bridge courses.

#### Outcomes:

The outcome of academic and professional excellence are lifelong learning and life skills with the objectives of evolving potential innovators, educators, researchers and leaders to face challenges in real-life situations.

File Description	Document
Link for Additional Information	<a href="#">View Document</a>

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

**Response:** 94

#### 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
36	22	17	14	5

File Description	Document
Details of the certificate/Diploma programs	<a href="#">View Document</a>

**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:** 19.77

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
8	11	6	3	0

File Description	Document
Details of participation of teachers in various bodies	<a href="#">View Document</a>

**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: 284

File Description	Document
Details of the new courses introduced	<a href="#">View Document</a>

**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 programs in which CBCS/ Elective course system implemented.

Response: 13

File Description	Document
Name of the programs in which CBCS is implemented	<a href="#">View Document</a>

**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:** 58.57

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
1231	1035	1305	1137	519

File Description	Document
Details of the students enrolled in Subjects related to certificate/Diploma/Add-on programs	<a href="#">View Document</a>

**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:****Environment, sustainability and Green Chemistry:**

Courses include about environment and sustainability, ecology and ecosystem, energy, environmental pollution and control, ethics, emission standards, regulations, green computing, green assets, greening information systems, green grid framework, material recycling, global warming, control strategies, international treaties of energy sources, population growth, soil degradation, loss of biodiversity, green disposal, smart cities, water management and green treatment are described.

**Human Values, Professional Ethics and Gender issues:**

Courses are designed with objectives that enable to visualize meaning of values and select their goals by self-investigation based on personal values, value of truth, commitments, honesty, sacrifice, care, unity, team work and relationship, to educate and make the young generation to aware of social responsibilities, to increase awareness about environment, create attitude towards sustainable lifestyle, self-reflection, practice respect for human rights and democratic principles, to familiarize with various living and non-living organisms and their interaction with environment and to become a conscious professional.

**Professional Ethics and Etiquettes:**

It deals with definition, integrity, difference between morals, ethics, and laws, engineering ethics, professionalism, roles to be played by an engineer, uses of ethical theories, development of ethics, Carol Gilligan's theory of moral development, Heinz's dilemma, ethics in the business world, corporate social

responsibility, improving corporate ethics, creating an ethical work environment in decision making, ethics in information technology, business etiquette, culture of excellence, principles of exceptional work behavior, the role of manners, introductions and greeting people, protocol of shaking hands, introductory scenarios, addressing individuals meeting and board room protocol, guidelines for planning a meeting, professional etiquette, etiquette at dining, networking, public relations on phone, email, social media, video conferencing, interview and dressing etiquettes for interview, offices and social functions.

#### **Value education:**

Courses include human values, introspection, truth, commitment, honesty, integrity, forgiveness, empathy, sacrifice, care, unity, punctuality, interpersonal and intra personal relationship.

#### **Stress Relief: Yoga and Meditation:**

Subject is introduced to impart knowledge basic technique and practice of yoga, breath control, meditation, physical postures, intellectual and theoretical understanding of the principles embodied in the yoga, sutras, relaxation and stress reduction, personal insight, self understanding, personal empowerment, gaining wisdom, spiritual discernment, awakening abilities or powers of the super conscious mind, immune system, intellectual and philosophical understanding, powers of concentration, focus and awareness.

#### **Moral and ethical values:**

Here, professional ethics, code of ethics of engineers, influence of ethics on family life, leadership qualities and personality development are discussed.

Human rights: here universal declaration of human rights, right to information act 2005, national integration, peace, non-violence, Dr. A P J Kalam's ten points for enlightened citizenship, role of media in value building, social values and ethical values, social consciousness and responsibility, consumer rights and responsibilities are described.

#### **Cyber Crime, law and Intellectual property rights:**

Here, cyber crimes, types of cybercrime, hacking, attack vectors, criminal behavior, computer crime, digital forensics, recognizing and defining computer crime, contemporary crimes, destruction of data and Indian IT Act 2000, IPR, creating awareness, intellectual property, marketing and piracy are described.

File Description	Document
Any Additional Information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

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

**Response:** 70

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

Response: 70

File Description	Document
Details of the value-added courses imparting transferable and life skills	<a href="#">View Document</a>
Brochure or any other document relating to value added courses.	<a href="#">View Document</a>

### 1.3.3 Percentage of students undertaking field projects / internships

**Response:** 42.71

1.3.3.1 Number of students undertaking field projects or internships

Response: 727

File Description	Document
List of students enrolled	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>

## 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
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	<a href="#">View Document</a>
URL for stakeholder feedback report	<a href="#">View Document</a>

**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
URL for feedback report	<a href="#">View Document</a>



## 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:** 3.22

##### 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
53	36	65	73	64

File Description	Document
List of students (other states and countries)	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>

#### 2.1.2 Average Enrollment percentage (Average of last five years)

**Response:** 62.86

##### 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
432	283	422	520	460

##### 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
555	555	756	756	756

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

#### 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:** 64.85

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
240	189	216	300	233

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

## 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:**

**Assessment of learning levels of the students after admission:**

DPCoE has structured various mechanisms for continuous monitoring, assessment and evaluation of students. The learning rate is being supervised to identify slow learners and advance learners at two levels.

In first level, three stages are contemplated for identifying the learning of students. In first stage, performances are observed in the intermediate examination on subjects like physics, chemistry and mathematics with a weightage of 30%. In second stage, MHCET performance is considered with weightage of 20%. In third stage, aptitude test is conducted with weightage of 50%. Students who obtain above 70% average score in the above three stages are categorized as advanced learners otherwise as slow learners.

In second level, unit tests of 30 marks are conducted for two chapters of every subject to assess performance with a scale of 20 marks out of 30 as a part of semester continuous assessment.

**Strategies adopted for facilitating slow learners:**

DPCoE organizes remedial classes for slow learners to improve their overall pass percentage. Extra classes are being conducted to clarify arduous topics for improving performance. Counseling and guidance for either individual or group are carried out to motivate them for their effective participation and interaction in regular lectures and interactive sessions. The students are persuaded to reside in hostel and faculties arrange evening classes and counseling sessions to guide and support them at the hostel. The slow learners are counseled for adopting strategies for selective intensive study and advanced to wide extensive study to achieve their respective career goals.

Teacher Guardian (TG) scheme is put into practice for welfare and overall career growth of students and

subjected to periodic review at institutional level. The role of the TG is to counsel, guide and address their socio-economic and educational issues. The TG focuses at slow learners for periodic progress in curricular, co curricular and extracurricular activities. A professional counselor is additionally engaged in counseling and guidance in institute. The counselor assesses grievance levels of students and suggests remedial measures in a conducive atmosphere.

### **Organizing special programs for advanced learners and slow learners:**

Advanced learners are recognized by their performance in examinations, interaction in classroom and laboratory, fundamental knowledge, conceptual and psychomotor skills. Such students participate in various co-curricular and extracurricular activities like “DPARDS”, NSS and Sports. Career oriented professional development programs and hands on practice sessions are also conducted. Students are informed to register and certified for NPTEL courses to get advanced knowledge and proficiency. German language training programs are conducted to enhance study in abroad and career opportunities. Motivational classes are conducted to imbibe positive attitude and to improve general mental ability of students.

### **Extra care for slow learners:**

1. Remedial classes are conducted to deal with essential background knowledge for strong subjects.
2. Teachers focus on critical topics to improve their performance.
3. Periodic attendance, performance and progress are reported to parents by TG through phone calls and Whatsapp group messages.
4. Students discuss their personal issues with TG or teachers for assistance.

### **2.2.2 Student - Full time teacher ratio**

**Response:** 11.2

### **2.2.3 Percentage of differently abled students (Divyangjan) on rolls**

**Response:** 0

#### **2.2.3.1 Number of differently abled students on rolls**

<b>File Description</b>	<b>Document</b>
Institutional data in prescribed format	<a href="#">View Document</a>

## **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:**

Academic processes are designed towards dissemination of course objectives and outcomes. Feedback is

collected, analysed and action is taken on every subject in each semester for effective teaching learning activities. Student centric academic process planning, delivery and assessment are designed to achieve learning objectives. The objective is to refine three required capsules such as cognitive, psychomotor and affective skills for professional development. The student centric methods evolve the learning levels as per Bloom's taxonomy stated below.

Lower order learning levels: Remember, Understand, Apply

Higher order learning levels: Analyze, Evaluate, Create

### **Lower order learning levels:**

#### **Experiential learning**

Experiential learning facilitates to apply knowledge and conceptual understanding to real-life situations where teacher directs and facilitates learning. A few experiential learning methodologies applied in DPCoE are as follows.

#### **Student centric classroom activities:**

Teachers demonstrate scientific concepts by digital media or models.

#### **Interactive softwares:**

Theoretical concepts are narrated by the software simulations.

#### **Seminars:**

Students deliver seminars on multi disciplines or core field in interactive sessions.

#### **Hands on practice workshops:**

They are arranged to have clarity in domain knowledge by practical exposure to students.

#### **Participative Learning:**

The approach offers creativity and knowledge enrichment by investigative, interactive, instructive and brain storming approaches.

#### **Group Discussions:**

The activity is carried out by DPARDS on personality development programs to enhance aptitude, attitude, instant thoughts and knowledge base during discussion.

#### **Debates and Extempore:**

Students enhance their optimized logical thinking, analysis, idea generation, communication and presentation skills and speech control, etc. The learning process is carried out under DPARDS to develop

creativity, entrepreneur qualities, cost effective solutions, infuse technical and managerial leadership, lifelong learning, continuing education, professional training and career development.

**Problem solving Methodology:**

Following steps are initiated to train the students

- Training for aptitude tests: They are conducted to facilitate placement activities, prepare students to face regional and national level competitive examinations and technological challenges.
- Teachers make use of online and offline NPTEL videos for teaching and share them with students to promote independent learning.
- Institute organizes internal training programs to enable teachers to mentor and guide students.

**Higher order learning levels:**

**Internships:**

The internships imbibe enthusiasm and career building by work experiences. They develop professional skills, teamwork, communications and competencies to enhance employment opportunities.

**Industrial visits:**

They are arranged in every semester to provide insight for internal working of companies to coalesce theoretical knowledge with industrial processes and recent trends.

**Laboratory experiential learning:**

The students are trained in general science and computer programming laboratories in first year and in core and multidisciplinary laboratory practices in subsequent years in their course.

**Mini projects:**

Students are divided into groups of four or five to carry out mini projects. They apply knowledge, skill and articulations during mini projects. Hence, various attributes such as leadership, inventiveness and problem solving skills can be evaluated.

**Participation in Technical events:**

Students participate in technical competitions like SUPRA, BAJA, multidisciplinary ROBOCON, GO-KART where they apply engineering knowledge, dexterity and articulations to complete task in DPCoE laboratories. DPCoE arranges platform for projects and sponsors competitions.

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

**Response:** 91.45

## 2.3.2.1 Number of teachers using ICT

Response: 139

**File Description****Document**

List of teachers (using ICT for teaching)

[View Document](#)

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

**Response:** 12.16

## 2.3.3.1 Number of mentors

Response: 140

**2.3.4 Innovation and creativity in teaching-learning**

**Response:**

**Student centered approach:**

Innovation promotes technology in-sourcing with value creation and value capture. New pedagogical approaches of teaching-learning are in practice to serve educational and intellectual needs. The Information and Communication Technology (ICT) revolutionized traditional method of teaching-learning.

**Usage of modern tools and techniques:**

To partially adopt “Go Green” concept, students’ data and study materials such as academic records, offline and online videos, lecture notes and events are shared through Google Drives and Whatsapp groups. Faculties use animations, models or prototypes during lectures to demonstrate operational principles explicitly by converting theory sessions into hybrid classrooms. DPCoE anticipates introducing Science Technology Engineering and Mathematics (STEM) education to meet global challenges. Faculties arrange student centered tutorial classes in the evening for slow and medium learners based on their requirements. They have implemented following innovative practices with conventional teaching to enhance teaching learning process:

**Project Based Learning:**

Faculty assigns mini projects to a group of four to five students on different subjects for evaluating their capabilities. Consequently, students inculcate in-depth domain knowledge, critical thinking, leadership, entrepreneurship, creativity and communication skills.

**Internships, Field projects, Industrial visits and field trips:**

These activities are organized for maximum subjects usually for core programs with objectives of instilling hands on experience, bridge gap between learning and industry practices, provide opportunity for active and interactive learning, develop interpersonal skills, communication and broaden outlook.

**Guest Lectures, Expert lectures and training programs:**

These are arranged for all students. Personality development programs are conducted for first year students under “DPARDS”. For second year students, software proficiency courses like CATIA, Pro-E, JAVA, ASP.net, C++, MATLAB, HyperMesh, Fusion 360, 3D printing, etc and Tech-Rel soft skill training are being conducted. Various value added courses, workshops and add-on programs are also organized. German language training programs are organized for interested students. Hands on practice programs are conducted for second and third year students on dismantling, servicing and assembly of various machines and systems for their skill development. Guest and expert lectures are organized by industrial experts and academicians from renowned academic institutes to deliver lecture on current and future trends in technology. Entrepreneurship development programs are also conducted for final year students.

**General and technical aptitude, overall personality development:**

GATE guidance, technical and general aptitude sessions are conducted. Training on career and goal setting, resume writing, behavioral skills, public speaking and SWOT analysis, reading, writing, listening and public speaking skills are provided to second year students. Third and final year students participate in competitions like SUPRA, BAJA, GO-KARTING and ROBOCON etc. Communication skills, language coaching and language laboratory facilities are proffered to enhance grammar, vocabulary, pronunciation, proficiency, Listening-Speaking-Reading-Writing (LSRW) skills and phonetics to build linguistic and communicative competence.

**Outcomes:**

Students are aggrandized in problem solving methodologies, conduction of experiments and interpretation of results. They are confident of functioning in a multi-disciplinary team to identify engineering problems and also capable of integrating IT solutions to user environment. They acquire critical thinking abilities and perceptive skills and are dedicated towards professional, moral and social ethics.

**2.4 Teacher Profile and Quality****2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years**

**Response:** 85.51

File Description	Document
Year wise full time teachers and sanctioned posts for 5 years	<a href="#">View Document</a>

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

**Response:** 4.39

**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
11	9	4	3	5

File Description	Document
List of number of full time teachers with PhD and number of full time teachers for 5 years	<a href="#">View Document</a>

### 2.4.3 Teaching experience per full time teacher in number of years

**Response:** 6.42

#### 2.4.3.1 Total experience of full-time teachers

Response: 976.02

### 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:** 21.89

#### 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
13	6	7	3	2

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
e-copies of award letters (scanned or soft copy)	<a href="#">View Document</a>

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

**Response:** 11.51

#### 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
16	19	21	22	18



File Description	Document
List of full time teachers from other state and state from which qualifying degree was obtained	<a href="#">View Document</a>

## 2.5 Evaluation Process and Reforms

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

#### Response:

#### Notifications:

CIE process is implemented by notifying dates in academic calendar and communicated during orientation program, during familiarization to the subject, frequent briefing in lecture sessions, online notifications and in Teacher Guardian (TG) meetings.

#### Internal Assessment Test for all students:

DPCoE conducts conventional type tests for all students based on question bank. Cumulative performance is assessed time to time.

#### Assignments:

Subject teacher assigns question bank with submission deadlines at the end of every chapter. Presentation quality and punctuality are basic criteria for assessment.

#### Online examination system for first and second year students:

SPPU conducts multiple choice questions type online examinations in every semester in two phases. The results are notified soon after examination.

**Attendance:** SPPU insists on a minimum of 75% attendance for appearing in examinations which is one among benchmarks for termwork.

#### Insemester examination and central evaluation system:

SPPU conducts Insemester examination for third and final year students in the mid of semester. Question Papers Distribution (QPD) system is online with respect to PUN code. Examination answers sheets are coded before commencement of examination and evaluated by masking personal identification of students and then decoded to tabulate marks. Insemester answer sheets are evaluated by qualified and experienced faculties in central examination control room.

#### Termwork assessment:

The assessment scheme for termwork is for almost all subjects. Continuous assessment marks are awarded on regularity, performance in IAT, insemester examination, mock oral, practical performance, maintenance of records and involvement in overall activities.

**Project work assessment:**

Reviews on the project work are performed in four stages like feasibility of project title, synopsis and literature survey; objectives, methodology, analysis and design; market survey, cost estimation, optimization and possible ways of solution; fabrication, testing, presentation, model demonstration and mock oral, etc.

**Insemester examination for repeaters:**

SPPU conducts Insemester examinations once in a year for regular students and failed students. Evaluation scheme is at par with regular students.

**Result analysis and review meeting:**

Assessment and result analysis are carried out by class teachers and authorities time to time. Performances of students are monitored and feedbacks on teachers are collected for remedial measures. The authorities conduct review meetings time to time.

**Progress reports and parents meeting:**

Performance of the students and progress reports are monitored and provided to parents after every assessment and evaluation. The parents or guardians are also intimated about performance of their wards by electronic media and their suggestions are gathered for remedial measures. The parents are advised to visit college for future necessary steps for improving performance of their wards.

**Remedial classes and evaluation process:**

These are carried out for slow learners, medium learners and absentee students involved in various activities to fill up their academic gap with their peers and performance is evaluated on this.

**Scheme for fast learners and evaluation process:**

Fast learners are motivated to participate in various competitions and performance is evaluated.

**Internal Quality Assurance Cell (IQAC):**

It governs quality education by academic monitoring and control activities. Meetings are conducted for compliance time to time.

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

**Response:**

Formal evaluation criteria are based on students's regularity in seminars, internal assessment tests, insemester examinations, practical conduction, execution of project work and co-curricular and extra-curricular activities. IQAC plays vigorous role in maintaining transparency in mechanism.

#### **Internal Assessment Tests (IAT) and insemester examinations:**

- IAT question papers and evaluation schemes are set by the subject teachers and reviewed by subject experts.
- Insemester evaluation schemes and solutions are supplied by SPPU which are fine tuned by subject teachers and experts if needed.
- IAT and insemester answer sheets are evaluated by the subject teachers as per the evaluation scheme and moderated by experts within one week.
- Results are remitted to students' google and Whatsapp groups as well as to parents groups.
- Performance is monitored and reviewed by class teachers, HoD and Principal.
- Students' grievances are addressed.

#### **Termworks:**

They are awarded on continuous assessment based on regularity, performance in IAT, insemester examination, preparatory oral, laboratory performance, practical records and involvement in activities. The termwork marks distribution is displayed before commencement of oral and practical examination. Performances are monitored and reviewed by class teachers, HoD and Principal with addressing the grievances of students.

#### **Punctuality and robustness in terms of frequency:**

- Continuous assessment reports for all courses are displayed in respective laboratory notice boards time to time.
- Meetings are conducted periodically to monitor performance and evaluation process.
- Reporting of all continuous assessment marks periodically to students and parents by online mode.
- Consolidated term work marks are displayed by end of each semester. Progress report is made transparent.

#### **Robustness in terms of variety:**

- Faculty feedback is collected, analyzed and action is taken for effective curriculum delivery.
- Students' grievances were readdressed time to time to by faculties, class teachers, HoD and Principal.
- Two internal examiners are appointed for each subject to evaluate internal marks.
- At the end of each semester, authorities of college monitor continuous assessment marks.
- SPPU approves the faculty members for evaluation of insemester examination answer papers.
- Students can claim reevaluation of answer papers through proper channel.
- SPPU local inspection committee often monitors continuous assessment.

#### **Robustness by IQAC:**

Effectiveness in curriculum delivery and transparency in evaluation processes are being monitored by the IQAC as described below.

- The effectiveness of teaching learning process is measured through the marks secured by the students in IAT, termworks, insemester and endsemester examinations.
- Counseling and guidance for results are carried out for teachers.
- Regularity and punctuality of teachers are monitored by bio-metric machines.
- SPPU examination patterns for question papers are demonstrated to the students by subject teachers.
- Students and parents are communicated about scheme of examination and evaluation process.
- FDP and induction programs are arranged for newly inducted faculty members.
- Previous SPPU examination question papers and model papers are made available to the students through online and offline mode.
- Curriculum progress and completion are reviewed and reported to authorities time to time.

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

#### **Response:**

#### **Automated processing by SPPU:**

Evaluation, reevaluation, declaration of results and grievance redressal system are transparent and faster due to automated processing.

#### **Display of academic calendar by SPPU:**

SPPU displays academic calendar in website at starting of academic year. Dates for commencement of teaching and its conclusion, insemester, online, oral practical and theory examinations are highlighted.

#### **Display of academic calendar by the college and departments:**

SPPU schedules are displayed by DPCoE and departments in academic calendars. They are communicated to students and parents.

#### **Chief Examination Officer (CEO) and Examination Committee (EC):**

SPPU displays examination time tables in website time to time and communicated to departments by CEO who prepares duty charts among faculty members to have interdepartment supervisors in order to maintain discipline. The college has CEO and EC to address grievances of students during the conduction of IAT, insemester, online, oral practical and end semester examinations. They also emphasize examination related issues after declaration of results. Punctuality in starting and conclusion of every examination is confirmed. The examinations are regulated as per the norms and compliances of SPPU.

#### **Insemester, end semester and online examinations:**

Students are allotted seat numbers and issued hall tickets. The students' ambiguities related to seat number and hall ticket issues are tackled instantly by the CEO, EC and DPCoE admin students' section on the spot in consultation with SPPU. Examinations are conducted jointly by internal and external senior supervisors.

**Assessment of answer papers in insemester examination:**

Answer paper assessment panel for the insemester examination is prepared by CEO with approval of principal and submitted to respective BoS chairman for approval. Answer papers are assessed by approved faculty of SPPU who supplies scheme and solutions. The results are communicated students and parents.

**Oral, practical and project work examinations:**

They are conducted by internal and external examiners appointed by SPPU. The oral and practical examinations are conducted jointly by internal and external examiners to have transparency and fairness.

**Evaluation system:**

Answer sheets are decoded with confidential identity. They are evaluated by SPPU approved faculty members under the guidance and control of moderators. List of approved faculty members are recommended for evaluation work by CEO and principal to CAP centers.

**Revaluation:**

The revaluation system is online for photocopy of answer sheets. After the completion of examination, the results are declared as per schedule. The students with grievances about their subject results can apply for revaluation.

**Malpractices:**

CEO curbs malpractices during examinations with the help of internal and external senior supervisors and principal as per SPPU transparent norms.

**Redressal of grievances at institute level:**

**Departmental Level:** Continuous evaluation is carried out by faculty for awarding termwork marks with well defined criteria. The grievances of students are gathered, studied and addressed by subject teachers, class teachers and HoD.

**College Level:** DPCoE appoints a senior supervisor for smooth conduction of examinations. Grievances are addressed by CEO, senior supervisors and principal for necessary actions within stipulated time.

**University level:** Issues like results, mark sheets corrections and other documents are addressed time to time.

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

**Response:**

**Academic Calendar:**

DPCoE prepares semester wise institute academic calendar before commencement of teaching. It consists of schedules for entire curricular, cocurricular and extracurricular activities, examinations and dispatch schedules of progress report to authorities, students and parents.

**Contents in college academic calendar:**

It contains schedules for commencement and conclusion of teaching, internal assessment tests, oral, practical, theory, online and insem examinations, number of working days and cocurricular and extracurricular activities, etc.

**Contents in department academic calendar:**

Departmental calendar consists of contents of college academic calendar along with schedules for industrial visits, field trips, internships, seminars, projects, cocurricular and extracurricular activities, etc.

**Teaching Plan:**

It is time bound practice adopted in teaching and learning based on essence of students. Entire syllabus content has planned for semester with dates and duration. The teaching plan enforces content delivery, preparations of subject notes and question banks for theory, oral practical and multiple choice questions. There is provision for extra lectures for subject to fill up curriculum coverage gap.

**Academic record:**

Subject teachers maintain academic records for theory and practical subjects with the objective of minimising the gap between the proposed plan and intended action. It is time bound academic practice to be followed for academic activities.

**Continuous Internal Evaluation (CIE) plans:**

The college prepares time bound plan for CIE in academic time table. The examination section conducts IAT, insemester, endsemester, oral, practical and online examinations. Progress reports are dispatched to students and parents in time such that students are to plan for improvements. After every evaluation, departments analyze performance of students and categorize them as slow, medium and fast learners. The time bound action plan is required for each category of students for remedial and extra lectures.

**Project work assessment:**

Time bound reviews on project work are performed in four stages by a team of faculty and guides in final year for continuous assessment with benchmark parameters such as suitability of project title, synopsis, literature survey, objectives, methodology, analysis or design, market survey, cost estimation, optimization, possible ways of solution to the problem, fabrication, testing, presentation, model demonstration and mock oral. Individual involvement of members of project team is assessed.

**Seminar assessment:**

Time bound reviews on seminar are performed by a team of faculty and guides in for continuous assessment with benchmark parameters such as suitability of title, synopsis and literature survey,

objectives, presentation, interaction and scope.

**Cocurricular and extracurricular events:**

DPCoE takes care of all events during preparation of academic calendar. College supports and sponsors regional, national and international events like SUPRA, GO-KARTING and ROBOCON. Cultural events in KSHITIJ, sports, indoor and outdoor games, are also sponsored.

**Termwork assessment:**

The continuous assessment on time bound activities are based on regularity, performance IAT, insemester examination, mock oral, conduction of practicals, maintenance of records and involvement in curricular, cocurricular and extra curricular events.

**Compliance of academic calendar for the conduct of CIE by IQAC:**

Strict adherence to schedules of academic calendar of CIE are viewed, monitored, controlled and directed by IQAC time to time without deviations.

## 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 (PO) are highlighted below.**

**PO1: Engineering and technological knowledge:** Application of science, mathematics and engineering specialization to solve complex problems.

**PO2: Problem analysis:** Identify, define, formulate and analyze complex problems to accomplish conclusions by means of mathematics, natural science and engineering knowledge.

**PO3: Design and development:** Solutions to complex problems in design and development of components and assemblies.

**PO4: Investigations on complex problems:** Innovative techniques and research methods to analyze and interpret data.

**PO5: Modern tool usage:** Suitable techniques and tools for prediction and modeling of complex activities with limiting factors.

**PO6: Engineer and society:** Reasoning concerned with safety, health, legal and cultural issues and responsibilities.

**PO7: Environment and sustainability:** Apply engineering solutions for sustainable development and consequent impact on environment and society.

**PO8: Ethics:** Professional and social ethics. Commit to norms and responsibilities.

**PO9: Individual and team work:** Effective functioning as an individual, a member or a leader in heterogeneous teams in multidisciplinary groups.

**PO10: Communication:** Effective communications with engineering community and society comprehension, reports, effective presentations, receive and dispatch instructions.

**PO11: Project management and finance:** Apply engineering knowledge and management techniques to administer projects in multidisciplinary environment.

**PO12: Lifelong learning:** Recognize essence of engineering and technology to cater needs of society and ability to engage in lifelong learning.

**Program Specific Outcomes (PSO):**

**PSO1:** Ability to analyze, formulate, synthesize data and technical concepts to solve real life problems.

**PSO2:** Ability to apply knowledge and skills for diverse domains with creativity, commitment and social consciousness.

**PSO3:** To inculcate professional and ethical codes in professional practices and commitment to social responsibilities.

**PSO4:** To instill positive attitude, excel in communication skills and ability to work as an individual or in a team.

**PSO5:** To prepare students to use modern tools effectively to solve real life problems.

**PSO6:** To explore multidisciplinary fields and professional capabilities to approach local and global needs.

**PSO7:** To build critical awareness in personal attitudes, behaviors and professional aspirations.

**Course Outcomes (CO):**

**Subject: Dynamics of Machinery**

**CO1:** To understand principle of balancing.

**CO2:** To study vibration, noise and acoustics basics.

**CO3:** To develop techniques for solving vibration problems.

**CO4:** To study measurement of vibration and noise and its control.

**CO5:** To evaluate Eigen values and Eigen vectors.



**CO6:** Ability to analyze vibration characteristics and to study various methods.

**PO and PSO are displayed at following locations:**

- Department files
- College website: [www.dpespune.com](http://www.dpespune.com)
- Lab Manuals
- Laboratories
- HOD Cabin

**PO and PSO communication to teachers by principal:**

- Meeting with all teaching, non teaching and admin staff.
- First year students' induction program.
- Alumni and parent meeting

**PO and PSO communication to students:**

- Head of Department, class teachers and subject teachers during the beginning of every semester.
- During commencement of every new chapter
- Departments and college notice boards.
- Academic record, department reports, magazine, brochure, lab manual, training and placement, etc

**CO communication to students by subject teacher:**

- During commencement of every chapter and topic during lecture.
- Class teachers and TG

File Description	Document
COs for all courses (exemplars from Glossary)	<a href="#">View Document</a>

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

**Response:**

**Method for measuring attainment of PO, PSO and CO:**

The PO and PSO are assessed with CO through direct and indirect assessment.

**Direct Assessment:**

It is evaluated observation for measurable CO, mapped to specific problems on IAT, oral-practical and assignments. Faculty records performance of each student on each CO throughout the semester.

**Average attainment in direct Assessment = SPPU Examination (70%) + Internal assessment (10%) + Oral-Practical Examination (10%) + Assignment (10%)**

**Indirect Assessment:**

DPCoE collects and analyzes data on learning outcomes.

**Average attainment in indirect Assessment = Average (Alumni survey + Employer survey + Exit survey)**

PO attainment is calculated as follows.

**PO /PSO Attainment (%) = (Average attainment in direct Assessment) (weightage: 80%)**

**+ (Average attainment in indirect Assessment) (weightage: 20%)**

The tools used for the assessment of PO and PSO with frequency are given below.

Sr.No	Assessment Tool	Descriptions	Mode	Frequency
1	SPPU Examinations (IAT and insem)	Results of mid and end of each semester, examinations. CO are measured for course attainment level that is framed in program	Direct	End of each semester
2	Internal Assessment Tests (IAT)	As per performance of students in answering questions, mapping is carried out with the respective CO to assess attainment level of specific CO of subject.  Two IAT are conducted in a semester for:  Ensure that students have achieved desired level of competency and confirm whether	Direct	Twice per Semester

		corresponding CO are achieved.		
3	Oral-Practical Examination	Performance in oral and practical examination, mapping with respective CO to assess attainment level of the specific CO	Direct	End of each semester
4	Assignments	<p>Assignments are given at the end of each chapter. The assignments are provided to students, so that they can make use of reference books to find out solutions and recognize the expected objective of the given problem.</p> <p>Subject teacher has to ensure that students can work on assignments sincerely.</p> <p>Questions given in assignments are aligned with CO of respective subject</p>	Direct	End of each Chapter
5	Alumni Survey	<p>Objectives of alumni survey are relevant to curriculum with expected skills required in industries.</p> <p>Level of attainment of goal for the specified program.</p> <p>In the survey, specific questions are prepared by keeping in the view</p>	Indirect	Per Year

		<p>to support the assessment level to attainment of PO.</p> <p>After receiving the response, the answers for the specific question are assessed and mapped with the corresponding PO to find out level of attainment of PO.</p>		
6	Employer Survey	<p>To confirm knowledge, skill and attitude acquired is adequate and meeting employer's expectations or not.</p> <p>Questionnaires are sent to the list of employers by year end.</p> <p>After receiving the employer's response, answer to specific questions are assessed and mapped with the corresponding PO to assess level of attainment of PO</p>	Indirect	Per Year
7	Student Exit Survey	<p>Framing future strategy to realize impact of training and comprehend strength and weakness of various value added courses, guest lectures, hands on workshops, entrepreneurship programs, personality development and</p>	Indirect	Per Year

pre-placement training.
----------------------------

**2.6.3 Average pass percentage of Students****Response:** 88.46

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

Response: 368

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

Response: 416

<b>File Description</b>	<b>Document</b>
Institutional data in prescribed format	<a href="#">View Document</a>

**2.7 Student Satisfaction Survey****2.7.1 Online student satisfaction survey regarding teaching learning process****Response:** 3.36

## 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:** 25.25

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
6.75	6.40	6.75	3.05	2.30

File Description	Document
List of project and grant details	<a href="#">View Document</a>
e-copies of the grant award letters for research projects sponsored by non-government	<a href="#">View Document</a>

**3.1.2 Percentage of teachers recognised as research guides at present**

**Response:** 0.66

3.1.2.1 Number of teachers recognised as research guides

Response: 1

File Description	Document
Any additional information	<a href="#">View Document</a>

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

**Response:** 0.19

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

Response: 24

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

Response: 633	
File Description	Document
Supporting document from Funding Agency	<a href="#">View Document</a>
Funding agency website URL	<a href="#">View Document</a>

## 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:

The college formulated **Research and Development committee** that comprises of academicians and researchers to support the research activities for faculty members and students. The College has an ecosystem for innovations which resulted to following start-up as detailed in table 3.2.1.

#### Ecosystem for innovations:

The college has state-of-the-art laboratories (<https://www.dpespune.com/be/mechanical-engineering/#1472803570712-04d58b72-58f9>) for students and faculty to pursue research. Research and Development committee encourages the faculty to submit research proposal to AICTE sponsored research proposal scheme, START UP and BCUD research projects. The management motivates students and faculty members to present their research work in international and national conferences. Salient features of facilities and support systems are described below.

#### 1. Autonomy to the principal investigator

The Principal Investigator (PI) of research project(s) funded by internal/external funding agency has the autonomy to accomplish and implement the project work. Research associates/ assistants under funded project play a vital role in assisting principal investigator.

#### 1. Timely availability or release of resources

As per the requirement of Research scholar/ Principal Investigator, required amount is sanctioned form R & D budget of the college.

#### 1. Adequacy of infrastructure and human resources

Research labs with computing, internet facilities, library, workshop, etc. are available to the researchers.

#### 1. Time-off, reduced teaching load, special leave etc. to teachers

The college encourages faculty to undergo short term training programs at centers of higher learning and

excellence. Duty leave is sanctioned to faculty to undertake field work and present their findings in seminars and conferences. Faculty members engaged in R&D activities are encouraged to pursue research by giving reduced teaching load.

### 1. Support in terms of technology and information needs

All departments have adequate computers for the researchers in respective area of interest and has dedicated lease line/ Wi-Fi for internet connectivity. Following facilities are also available with required infrastructure.

**Reference Books, Conference Proceedings, Annual Reports,**

**Standards Data books, E-resources, IEL Online – Journals / magazines,**

**Science Direct – Journals with back volumes Library Services**

- **Information Search Facility** – Information is obtained by library staff for research topics.
- **Current Contents** –table of contents, abstract of articles of current issue of a Journal in print media.

### 1. Facilitate auditing and submission of utilization certificate to funding authorities

All auditing is done on time by accounts section.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

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

**Response: 70**

3.2.2.1 Total 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
28	23	7	8	4



File Description	Document
Report of the event	<a href="#">View Document</a>
List of workshops/seminars during the last 5 years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.3 Research Publications and Awards

<b>3.3.1 The institution has a stated Code of Ethics to check malpractices and plagiarism in Research</b>	
<b>Response:</b> No	
File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

<b>3.3.2 The institution provides incentives to teachers who receive state, national and international recognition/awards</b>	
<b>Response:</b> No	
<b>3.3.3 Number of Ph.D.s awarded per teacher during the last five years</b>	
<b>Response:</b> 0	
3.3.3.1 How many Ph.Ds awarded within last five years	
3.3.3.2 Number of teachers recognized as guides during the last five years	
Response: 1	
File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

<b>3.3.4 Number of research papers per teacher in the Journals notified on UGC website during the last five years</b>				
<b>Response:</b> 2.17				
3.3.4.1 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
73	76	74	54	30

<b>File Description</b>	<b>Document</b>
List of research papers by title, author, department, name and year of publication	<a href="#">View Document</a>

### 3.3.5 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:** 0.18

3.3.5.1 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
6	9	4	4	2

<b>File Description</b>	<b>Document</b>
List books and chapters in edited volumes / books published	<a href="#">View Document</a>

## 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:**

DPCoE established NSS and Board of Student Welfare (BSW) recognized units to create awareness among students about their societal role and responsibilities by promoting College-Neighborhood-Community Network. Several camps are organized in rural areas to encourage socio-educational services.

DPCoE students actively participate in various extension activities to focus on social awareness and thereby in their holistic development. NSS Students conduct programs on 'road safety program' and 'world pollution day' to promote awareness among people to road safety and reduce environmental pollution.

Students organize programs on 'Historical Place Cleaning', 'Swachta Abhiyaan', 'Tree Plantation', 'Garbage and Waste Management' and 'Cleanliness Campaign' to create awareness among the neighboring people.

NSS students conduct programs on Blood Donation Camp, Polio Mohim, Health Checkup Camp and organ

donation seminar to inculcate importance of yeoman service.

Students participate in cultural program such as 'Purrushottam Karandak' and Firodiya Karandak, inter collegiate drama competitions to inculcate cultural awareness and expertise with exposure to the culture.

The students volunteer as 'Police Mitra' every year to assist the police training during 'Ganesh Utsav' to support and guide the worshippers without harming religious sentiments of other communities. The participation of students in such activities enhanced their life skills and understanding their social issues.

Students participated in several programs like First Aid Training, Disaster Management Training, and Stress Management in order to enhance their life skills.

Several programs were conducted by our students on 'Gender equality' and 'Women Empowerment' where the women are acknowledged and appreciated for their contribution in the development of society.

Yog-Pranayam Guidance Seminar is conducted for all students and faculties by NSS team in order to focus on holistic development like leadership and organizing skills.

#### Outcomes:

They emphasized students on social engagement to build right attitude for yeoman service. The communities are educated on social, professional and education sensitive issues with moral and ethical values. NSS adopted Malad and Vadhu villages, resolved issues and executed awareness programs.

( <https://drive.google.com/drive/folders/1P69KHPLoMkCZOUyM-rQ8ynFJMH2tCEZV?ogsrc=32> )

Students emerged as competent citizens to face challenging careers.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

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

**Response:** 38

#### 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
15	8	5	5	5

File Description	Document
Number of awards for extension activities in last 5 years	<a href="#">View Document</a>
e-copy of the award letters	<a href="#">View Document</a>

### 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:** 132

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
34	32	21	20	25

File Description	Document
Reports of the event organized	<a href="#">View Document</a>
Number of extension and outreach programs conducted with industry,community etc for the last five years	<a href="#">View Document</a>

### 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:** 73.11

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
1360	1285	1305	1250	1265

File Description	Document
Report of the event	<a href="#">View Document</a>
Average percentage of students participating in extension activities with Govt or NGO etc	<a href="#">View Document</a>

### 3.5 Collaboration

<p><b>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</b></p> <p><b>Response: 242</b></p>														
<p>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</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>84</td> <td>86</td> <td>46</td> <td>13</td> <td>13</td> </tr> </tbody> </table>					2017-18	2016-17	2015-16	2014-15	2013-14	84	86	46	13	13
2017-18	2016-17	2015-16	2014-15	2013-14										
84	86	46	13	13										
<table border="1"> <thead> <tr> <th>File Description</th> <th>Document</th> </tr> </thead> <tbody> <tr> <td>Number of Collaborative activities for research, faculty etc</td> <td><a href="#">View Document</a></td> </tr> <tr> <td>Copies of collaboration</td> <td><a href="#">View Document</a></td> </tr> </tbody> </table>					File Description	Document	Number of Collaborative activities for research, faculty etc	<a href="#">View Document</a>	Copies of collaboration	<a href="#">View Document</a>				
File Description	Document													
Number of Collaborative activities for research, faculty etc	<a href="#">View Document</a>													
Copies of collaboration	<a href="#">View Document</a>													
<p><b>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)</b></p> <p><b>Response: 26</b></p>														
<p>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)</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>10</td> <td>8</td> <td>6</td> <td>1</td> <td>1</td> </tr> </tbody> </table>					2017-18	2016-17	2015-16	2014-15	2013-14	10	8	6	1	1
2017-18	2016-17	2015-16	2014-15	2013-14										
10	8	6	1	1										

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

NAAC

## 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:**

DPCoE adheres to rules and regulations of AICTE New Delhi, Director of Technical Education, Government of Maharashtra as well as Savitribai Phule Pune University (SPPU) for establishing, maintenance and up-gradation of its infrastructure and related facilities to facilitate teaching learning process to 6 UG, 4 PG and MBA students. The institution is spread over an area of 14.3 acres against the minimum area requirement of 7.5 acres.

Uniqueness of institution lies in availability of open area including playground of 6.7 acres . The college with Wi-Fi campus keeps vigil on IT resources, internet, sports, hostel, canteen, sanitation, power backup and library resources, etc. All facilities are monitored prior to the commencement of every academic session. The college upgrades the infrastructure in tune with updates of SPPU curriculum and growing needs of students that arises out of the curriculum gap and industrial needs. Modern teaching and learning methodologies are adopted for problem based learning through power point presentation, experimentation and research, model display and mini-projects. The campus is adequate to conduct curricular, co curricular and extracurricular activities. The campus is under CCTV surveillance with 24x7 security service.

**Computing facility:**

DPCoE has computing facility with LAN of 1:1 leased line of 100 Mbps internet speed across the campus.

**Classrooms:** The College has adequate number of well aerated, well equipped and spacious classrooms to conduct theory and tutorial classes. Each classroom is specifically designed with area 110 sq. meter and comfortable seating arrangement for effective communication between teachers and students. Institution has 33 classrooms which are well equipped with ICT facilities to adopt appropriate teaching methodology. Area of class room is 2253 sq meter against required 2244 sq meter. For conducting tutorials and academic counseling, the students are grouped and the activities are carried out in tutorial rooms.

**Laboratories:** All laboratories are well equipped and upgraded to carry out academic and research activities. Computer laboratories are equipped with required facilities to conduct online examinations.

**Department library:** Every department has a library equipped with books and study materials.

**Seminar Halls:** The College has seminar halls to conduct conferences, seminars and skill development workshops for faculty members and students. They are equipped with LCD projectors, white boards, public addressing system with internet connectivity and multimedia facilities.

**Central Library:** The College has a spacious 700 sq.meters of well equipped Central Library with references and text books, online and offline resources, national and international journals, magazines and newspapers ,etc.

**Language lab:** It is used to enhance communication skills of students and facilitates them prepare for

TOEFL, IELTS and other competitive examinations.

**E-learning facility:** It is provided with computer based virtual learning, photocopy, educational CD, NPTEL online and offline video, mathematical and interactive simulation softwares etc.

**Workshop:**The workshop of the institution is equipped with lathe machines, horizontal milling machine, radial drilling machine, wood turning lathe and accessories etc. for hands-on experience for students. The students can avail the facility round the clock.

File Description	Document
Any additional information	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

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

##### Response:

By keeping in view for overall development of the students, DPCoE encourages students to participate in various tournaments at SPPU in state level. The college also supports them to participate in various cultural activities and NSS, etc.

##### Sports and games:

Number of sports activities are conducted to maintain physical fitness. Spacious playgrounds are provided for outdoor games such as cricket, basketball, volleyball and kabbadi etc. and indoor area for playing chess, table tennis and carrom etc.

##### Cultural activities:

To bring out the inherited and acquired potential of the students and to have remarkable exposure to interpersonal skills, team spirit, time management and delegating the students are encouraged to participate in cultural activities at college level and intra and inter department level. Kshitij annual fest is conducted with various competitions such as singing, dancing and fashion show etc. The students get success in winning prizes in state level cultural events such as Purushottam Karandak and Firodiya Karandak. The college facilitates the students to celebrate Teachers day, Engineers day, Navratri, dahihandi and many other state and national festivals or events. The college has an open amphitheater.

##### Yoga center:

The college has a yoga center viz. Vatika which is accessible to all students, faculty members and outsiders. The college has provided a yoga instructor who undertakes sessions of almost 10 to 15 senior citizens on regular basis.



Facilities for sports, games (indoor, outdoor, gymnasium, yoga center etc.) and cultural activities are detailed as shown in table 4.1.2

Table 4.1.2

<b>Type</b>	<b>Sports/ Games</b>	<b>Size (m2)</b>	<b>Year of establishment</b>	<b>User Rate (per day)</b>
Outdoor	Cricket	5000	2008	<b>50</b>
	Football	5000	2008	<b>30</b>
	Basketball	608	2010	<b>15</b>
	Volleyball	162	2010	<b>12</b>
	Kabbadi	130	2008	<b>12</b>
Indoor	Table Tennis	544	2008	<b>06</b>
	Chess	65	2008	<b>10</b>
	Carrom	65	2008	<b>12</b>
	Yoga Center	300	2016	<b>15</b>
	Gymnasium	500	2009	<b>28</b>

Facilities for cultural activities:

Name of activity	Facility	Area (m2)	User Rate (per day)
Purshottam Karandak	Seminar hall	402	12
Firodiya Karandak	Seminar hall	402	12
Navratri	Seminar hall	402	60
Dahihandi	Ground	5000	50
Kshitij annual fest	Ground	5000	2000

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

#### 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: 37

File Description	Document
Number of classrooms and seminar halls with ICT enabled facilities	<a href="#">View Document</a>
Link for additional information which is optional	<a href="#">View Document</a>

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

**Response:** 45.24

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
80.00	276.00	230.00	89.00	186.50

File Description	Document
Details of budget allocation, excluding salary during the last five years	<a href="#">View Document</a>
Audited utilization statements	<a href="#">View Document</a>

## 4.2 Library as a Learning Resource

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

**Response:**

#### VASUNDHARA SOFTWARE

Institute has been using VASUNDHARA , a partially automated library software since 2009 . Vasundhara is basically management software which is used for institutional management work. The vasundhara software was used for searching books in library like OPAC in 2016. The version of Vasundhara Library software was “NA”.

#### Modules / Features of Vasundhara software

- OPAC (Online Public Access Catalogue)

**Year of purchase of Vasundhara software- 2009**

#### AUTOLIB SOFTWARE

Since Sep-2017, Auto Lib Library Management Software was used in library with a version Auto Lib NG fully automated.The software is used to search a particular book in the library, which shows entries of books as well as number of copies available in the library.

**Version: Auto Lib NG**

#### Modules / Features of AutoLib software

- OPAC (Online Public Access Catalogue)

- Catalogue and Z39.50 Standard.
- Barcode enabled system
- Report generate system
- I Card systems
- Online Acquisition system

#### **Year of purchase of AutoLib software - 2017**

The institute has well equipped, spacious air-conditioned library with carpet area of 700.00 square meters, consisting rich collection of engineering books including national, international journals, periodicals, and magazines. The reading room is 200 sq. meters with a seating capacity of 200 students. It has about 4296 titles, 17003 volumes, Delnet e- books, national journals and magazines along with newspapers. All the books are bar-coded and the bar-code laser scanners are used in circulation counter for transaction of books . Direct Accesses to online journals are made available for staff and students such as Springer with 586 titles. Library facility is open to all students and faculty members. It is continuously updated with latest books and journals. The institute always strives to provide latest and best collection of books, journals and online sources to the students. The library has an advisory committee for decision making. The library members of advisory committee are Principal as a Chairman, librarian and Head of the department. The Library has titles and volumes of periodicals, journals and e-contents to cater needs of users. It has reading section, reference section, issue section, newspaper section and digital library. The reading material and e-journals are used as per recommendations of the advisory committee.. Two meetings are held in a year to discuss the progress and procurement of books and journals. All the subject teachers, domain experts, PG students, UG students suggest their proposals for the purchase of books, journals and other required materials time to time.

The table 4.2.1 shows details of automated ILMS.

Year Automation	Name Of The ILMS Software	Nature Of automation (fully or partially)	Version
2013-14	Vasundhara Library Software	Partially	Vlib 2013
2014-15	Vasundhara Library Software	Partially	Vlib 2013
2015-16	Vasundhara Library Software	Partially	Vlib 2013
2016-17	Vasundhara Library Software	Partially	Vlib 2013
2017-18	Auto Lib NG Library automation Software	Fully	NG

<b>File Description</b>	<b>Document</b>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

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

##### Response:

The college library has special collection of rare books with a separate section like thinker's books and out of publication edition books. The rare books are issued to students on library cards who have no permission to carry them out of library. Materials housed in special collections can be in any format including [rare books](#), [manuscripts](#), [photographs](#), [archives](#), [ephemera](#) and digital records, out of publication books. Details of books are mentioned in table below.

Sr. No	Acc No.	Name of the book/ manuscript	Name of the publisher	Name of the author	Number of copies	Year of publishing
1	10044, 10045, 10046, 10047, 10048	Digital Signal Processing	Prentice Hall India	Oppenheim, Alan .V	5	1975
2	13034	Mechanical and Industrial measurements	Khanna Publications	Jain R.K	1	1976
3	15419	Motor Vehicles	MIR	Artamohav, M D	1	1976
4	11726	Shrimant, abhang dnyaneshwari	Seva mandli	Sawrupanand, sawmi	1	1983
5	10794, 10795, 10796, 10797, 10798	CAD/CAM : Computer-Aided Design and Manufacturing	Pearson Education	Groover, M. P. & Zimmers, E.W.	5	1984
6	12752, 12753, 12754	Computer architecture and parallel processing	Macgraw-Hill	Hwang, kai	3	1985
7	13294	Sarth Shri Dnyaneshwari	Yosodhan	Joshi, V.N	1	1985
8	10404, to 10408	Microcomputers systems	Prentice Hall India	Liu, Yu Cheng	5	1986

		The 8086/8088 Family: Architecture, Programming, and Design.				
9	11705	Vasant Gaurav	Ramkrushna More	no	1	1986
10	11729	I am Handred Parsent Sugar	Self development	malvi, vanraj	1	1986
11	11740	Yasvantrao Chavan Attm acharitra Krishnakath ,vol-I	prestij	prestij	1	1987
12	6331	Computer Graphics:A P rogramming Approach	Macgraw-Hill	Harrington, Steven	1	1987
13	7238, 10114 to 10122	An Introduction to Humanities Social Science	Vidyarthi	Naik, K.K	10	1989
14	751 to 753	Marketing Principles & Practice .	Pitman	Adcock, Dennis.	3	1995
15	7627	The maharashtra civil service rule	Shelkars. R	Shivans	1	2009
16	13820	Fundamentals of microprocessors and microcomputers	Ram.B	Dhanpat Rai Publication	1	1996
17	10404, to 10408	Microcomputers systems The 8086/8088 Family: Architecture	Liu, Yu Cheng	Liu, Yu Cheng	5	1986
18	1457	Biomedical Instrumentation & Measurement	Cromwell, L & Weibell F.J	Pearson Education	1	2009

		ments				
19	11197, 11198, 11199	Computer architecture and parallel processing	Hwang, Kai	Macgraw- Hill	3	1985
20	5621	Mahanayak	Patil V	Rajahans Publication	1	2009
21	7978	The 7 habits of highly effective people	Covey, Stephen	Pocket book	1	2009
22	5607	Rabindranath Tagor	Kriplani Krishna	UBS Publication	1	2009
23	11709	Jagtguru santshrestha shri tukaram maharaj yanchya abhangacha gatha	Shri sant tukaram maharaj sansthan	Shri sant tukaram maharaj sansthan	1	2005
24	11034	Swami vivekanand	Syed	Himalaya	1	2011
25	5540	Tales From 1001 Arabian Nights	Burfon R.F	Jaico Publishing House	1	2009
26	5597	Indomitable Spirit	Kalam APJ	Rajpal &Sons	1	2009
27	15447	Microelectro nic Circuits	Sedra, A.S	Oxford	1	1998

<b>File Description</b>	<b>Document</b>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

**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	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

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

**Response:** 9.42

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
7.37	9.14	11.73	13.30	5.56

File Description	Document
Details of annual expenditure for purchase of books and journals during the last five years	<a href="#">View Document</a>
Audited statements of accounts	<a href="#">View Document</a>



**4.2.5 Availability of remote access to e-resources of the library****Response:** Yes

File Description	Document
Any additional information	<a href="#">View Document</a>

**4.2.6 Percentage per day usage of library by teachers and students****Response:** 11.06**4.2.6.1 Average number of teachers and students using library per day over last one year**

Response: 205

File Description	Document
Any additional information	<a href="#">View Document</a>

**4.3 IT Infrastructure****4.3.1 Institution frequently updates its IT facilities including Wi-Fi****Response:**

In DPCoE, laboratories are enabled with LAN facility with bandwidth of 100 Mbps leased line from TATA Tele Services Ltd. and secondary backup of 20 Mbps, enabled with Wi-Fi connection uses D LINK access point. A few classrooms are equipped with Wi-Fi connection and LAN facility. The Wi-Fi and LAN facility are upgraded according to the requirements of AICTE. NPTEL links are accessed by departments with lecture capture system video, available for all students and staff with shared link.

The departments recommend deployment and up gradation of IT infrastructure with the objectives as highlighted below.

- To upgrade or replace obsolete computer systems time to time.
- To develop e-learning facilities in all classrooms.
- To enhance internet bandwidth from 20 Mbps to 100 Mbps.
- To upgrade existing facilities with latest version of hardware and software to cater the needs of users as per updating of curriculum in programs or courses.
- To upgrade resources from conventional and digital library, e-journals, internet and Wi-Fi facilities, CCTV.
- To procure additional servers, switches and UPS time to time as per the requirement.
- Encourage faculty and students to use open source software.
- To increase computer-student ratio.

The Wi-Fi facilities year wise details are listed in table 4.3.1 (a).

Table 4.3.1 (a)

Year	Nature of updating
2013-2014	12 Mbps Lease Line, Wi-Fi Access Point - 3
2014-2015	12 Mbps Lease Line, Wi-Fi Access Point - 2
2015-2016	50 Mbps Lease Line, Wi-Fi Access Point - 2
2016-2017	50 Mbps Lease Line, Wi-Fi Access Point -3
2017-2018	100 Mbps Lease Line, Wi-Fi Access Point -3

Department wise details of computers, Printers, Scanners, Projectors are shown in table 4.3.1 (B).

Table 4.3.1 (B )

Sl. No	Department	Computers	Printers	LCD Projectors	Scanners
1	Mechanical Engineering	72	3	2	0
2	Electronics and Telecommunication	89	7	3	0
3	Engineering Computer	153	13	3	1
4	Engineering Information Technology	100	7	3	1
5	Civil Engineering	22	1	3	0
6	First Year Engineering	59	4	6	0
7	Automobile Engineering	29	2	3	0
8	Administrative office	26	7	2	-
9	Library	3	-	-	-
10	Digit library	12	-	-	-
11	Server room	12	-	-	-
12	MBA	1	1	-	-

LIST OF APPLICATION SOFTWARE(B1):

Sr no	Name	User
1	Oracle 11	5
2	IBM Rational Rose	30
3	Language lab	30+1
4	Tally ERP	MultiUser
5	Triton IDE ( ARM7 Compiler)	12
6	Leonardo Spectrum Lev. 2	10
7	Matlab 2007b	5
8	Matlab 2012b	5
9	Microwind 3.5	25
10	ANSYS VERSION 13.0 (3200 NODES)	25 User
11	PRO/ENGINEER WILD FIRE 5.0 UNIVERSITY PLUS LAB BUNDLE	50 User
12	MASTER CAM X5,	16 MILL+TURN+DESIGN+ 16 ROUTER
13	AUTODESK PRODUCTS	20 User

The supporting facility details are listed in table 4.3.1 (c).

Table 4.3.1 (c)

Sr. No.	Item	Quantity
1	Computers	595
2	LCD projectors	45
3	Laptops	2
4	Server	2
5	Printers	52
6	Scanners	2
7	LAN Star Topology	Star Topology
8	Anitivirus	Admin Console (SEQRITE)
9	Plotter	1

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

#### 4.3.2 Student - Computer ratio

<b>Response: 2.95</b>	
<b>File Description</b>	<b>Document</b>
Any additional information	<a href="#">View Document</a>

<b>4.3.3 Available bandwidth of internet connection in the Institution (Lease line)</b>	
<b>&gt;=50 MBPS</b>	
<b>35-50 MBPS</b>	
<b>20-35 MBPS</b>	
<b>5-20 MBPS</b>	
<b>Response: &gt;=50 MBPS</b>	
<b>File Description</b>	<b>Document</b>
Any additional information	<a href="#">View Document</a>

<b>4.3.4 Facilities for e-content development such as Media Centre, Recording facility, Lecture Capturing System (LCS)</b>	
<b>Response: Yes</b>	
<b>File Description</b>	<b>Document</b>
Facilities for e-content development such as Media Centre, Recording facility,LCS	<a href="#">View Document</a>
Link to photographs	<a href="#">View Document</a>

#### 4.4 Maintenance of Campus Infrastructure

<b>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</b>				
<b>Response: 19.14</b>				
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
87.59	70.60	70.00	84.45	76.01

File Description	Document
Details about assigned budget and expenditure on physical facilities and academic facilities	<a href="#">View Document</a>
Audited statements of accounts.	<a href="#">View Document</a>

#### **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:**

The college authorities monitor, control and direct maintenance and utilization of facilities time to time. They allocate funds for regular maintenance of required facilities. The college reviews the budgetary requirements for building, furniture, laboratory equipment and computer systems etc prior to the commencement of academic session and its allocation is also furnished for academic requirements.

##### **Maintenance of other support systems:**

The college has appointed personnel for maintenance of infrastructure and supervision. The college has appointed housekeeping staff for regular cleanliness of corridors, washrooms, classrooms, laboratories, hostels and the premises. The maintenance of water coolers is carried out by annual maintenance contracts. The college has appointed electrician for repair and maintenance of electrical works. Facilities in laboratories such as water taps and electrical fixtures are monitored by the respective laboratory technical staff. Facilities like first aid kits are checked.

##### **Classrooms, seminar hall:**

The classrooms, seminar halls and staff room are provided with enough seating capacity and LCD software. They are maintained on regular basis.

##### **Maintenance of library facilities:**

The books and journals are maintained against disfiguring. Book binding is carried out for damaged books against further damage. Stock verification is done as a part of regular monitoring and control. The College has constituted Library Committee for effective accessibility of learning resources to students and faculty.

The Library Committee is involved in the following activities.

- Procurement of new books and renewal of journals.
- To frame and implement the rules and strategies for issuing of books and journals.
- To execute guidelines for optimum utilization of resources and better services.
- To maintain and update all library records.
- To address issues and grievances of users.

- To update and upgrade the library periodically as per updates in curriculum.
- To gather and analyze feedback of users.
- To demand for new titles from various vendors based on recommendation of faculty members.

#### **Maintenance of computing facilities:**

The maintenance of computing facility is carried out by the system administrator and the technical assistants of the respective departments. The computers and ICT tools are monitored and maintained on regular basis by respective technical assistants. The software updates and internet related problems are resolved by respective service providers.

#### **Maintenance of extracurricular facilities:**

Common amenities such as sanitation, plantation, indoor and outdoor game facilities, yoga centre and gymnasium are maintained on regular basis.

#### **Maintenance of drinking water facilities:**

Clean and hygienic drinking water is available in campus. Overhead water tanks are cleaned periodically.

#### **Generator facility:**

The campus has power backup facilities and generator which are monitored on regular basis.

#### **Dry and wet cleaning:**

They are performed to class rooms, seminar halls, laboratories, staffrooms, office, library, corridors and wash rooms on daily basis by housekeeping staff.

#### **Hostel:**

Hostel committee regularly monitors maintenance and cleanliness of facilities in hostel performed by housekeeping staff and supervised by warden.

#### **Canteen:**

The canteen maintenance committee takes care of quality of food and other related issues

<b>File Description</b>	<b>Document</b>
Link for Additional Information	<a href="#">View Document</a>

NAAC

## 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:** 50.87

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
862	733	1065	978	924

File Description	Document
Upload self attested letter with the list of students sanctioned scholarships	<a href="#">View Document</a>
Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years	<a href="#">View Document</a>

#### 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:** 7.13

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
149	95	155	234	16

File Description	Document
Any additional information	<a href="#">View Document</a>

#### 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	<a href="#">View Document</a>
Link to Institutional website	<a href="#">View Document</a>

#### 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:** 51.48

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
1324	733	341	1884	280

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	<a href="#">View Document</a>

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

**Response:** 40.34**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
1135	615	659	590	554

**File Description****Document**

Details of the students benefitted by VET

[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:** 26.79**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
90	134	188	169	78

File Description	Document
Self attested list of students placed	<a href="#">View Document</a>
Details of student placement during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

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

**Response:** 1.58

#### 5.2.2.1 Number of outgoing students progressing to higher education

Response: 07

File Description	Document
Upload supporting data for student/alumni	<a href="#">View Document</a>
Details of student progression to higher education	<a href="#">View Document</a>

### 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:** 16.64

#### 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
04	09	01	01	01

#### 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
25	20	18	15	10

File Description	Document
Upload supporting data for the same	<a href="#">View Document</a>
Number of students qualifying in state/ national/ international level examinations during the last five years	<a href="#">View Document</a>

### 5.3 Student Participation and Activities

<p><b>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.</b></p> <p><b>Response: 15</b></p> <p>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</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>5</td> <td>4</td> <td>3</td> <td>2</td> <td>1</td> </tr> </tbody> </table>					2017-18	2016-17	2015-16	2014-15	2013-14	5	4	3	2	1
2017-18	2016-17	2015-16	2014-15	2013-14										
5	4	3	2	1										
File Description	Document													
Number of awards/medals for outstanding performance in sports/cultural activities at national/international level during the last five years	<a href="#">View Document</a>													
e-copies of award letters and certificates	<a href="#">View Document</a>													

<p><b>5.3.2 Presence of an active Student Council &amp; representation of students on academic &amp; administrative bodies/committees of the institution</b></p> <p><b>Response:</b></p> <p>Yes, DPCoE has Students Council and students are actively involved in academic and administrative bodies.</p> <p><b>Objectives:</b></p> <p>To provide a platform for active participation of students in academic and administrative bodies and involve them in curricular, co curricular and extracurricular activities to enhance their interpersonal relations, leadership and managerial skills, individual and team work and overall personality development.</p> <p><b>Students Council:</b></p>				
--	--	--	--	--

DPCoE has an active Students Council formed during the commencement of every academic year. The Students Council is formed by elections in which Students Representatives and General Secretary were selected by the principal and faculty members.

Students Council is actively involved in organizing various events in the college. Proposed events in the semester are discussed in Students Council meeting to accommodate them in institutional academic calendar. All departments also have independent students council such as MESA for Mechanical Engineering, AESA for Automobile Engineering and CESA for Computer Engineering and so on. Various students' clubs such as TEAM SCREWDRIVERS and MUDRA, etc are also established to explore talent of students in technical, sports and cultural events.

Under the provisions of Section 40 (2) (b), sub section 5 of Maharashtra Universities Act 1994, Board of Students' Welfare, SPPU dispatched circular 160/2015, Ref. No. SW/ 2015-16/115 dated 15/7/2015, DPCoE formulated Students' Council with following constitution and office bearers.

#### **Constitution:**

- Principal
- Principal nominated faculty (Student Council Faculty Coordinator)
- Physical Director
- NSS Officer
- Three academic toppers from F.E., S.E. & T.E.
- Cultural Students' Coordinator
- Sports Students' Coordinator
- NSS Coordinator
- Two Girls Representatives (preferably SC/ ST/ OBC) nominated by the Principal

#### **Outcomes of the student's involvement:**

1. Students participated in technical events like SAE SUPRA, Go KARTING and ROBOCON with awards. Students obtained 7th rank in SAE SUPRA 2017 national level competition.
2. Students won best operator award in ROBOCON event.
3. National Festivals are celebrated with enthusiasm. Our students are on a mission towards better India. They come together breaking the boundaries of religion and caste.
4. Student's councils celebrate Engineers day, Teachers day and also involved in the celebration of Independence day and Republic day etc.
5. College sports and cultural events are organized under the leadership of student's council.
6. Under the banner of NSS, Swacha bhara abhiyan, Street plays, Road safety, Blood donation, free health check up activities are conducted.
7. Students participated in Purushottam karandak event and two of our students got best actor awards.
8. Students are involved in spiritual activities like organizing sankasta chaturthi and celebration of Ganesh festival.

File Description	Document
Link for Additional Information	<a href="#">View Document</a>

**5.3.3 Average number of sports and cultural activities/ competitions organised at the institution level per year****Response:** 66.8

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
67	68	67	66	66

File Description	Document
Report of the event	<a href="#">View Document</a>
Number of sports and cultural activities / competitions organised per year	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**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:**

DPCoE has a registered alumni association with the registration number 1585/2017/Pune dated 13/11/2017.

The alumni association is formed with the following office bearers during 2017-18.

Sr. No.	Name	Designation
1	Mr.Mayur Ravindra Sakhre	Chairman
2	Mr.Swapnil Sampat Dhawade	Vice-Chairman
3	Ms. Neha Baburao Dumne	Secretary
4	Mr.Pravin Vilas Zurunge	Treasurer
5	Mr. Sanket R PAwar	Member
6	Ms. Pratiksha U Jadhav	Member
7	Mr. Kumar Rajiv Ranjan	Member

- DPCoE has an online alumni association with 1000 registered members so far by the link

[www.alumni.dpespune.com](http://www.alumni.dpespune.com). The alumni are members of academic planning to suggest on various events to be scheduled for academic year. They give feedback on various programs of institute time to time and suggestions are implemented for the academic and infrastructure development. They are invited for seminars and guest lecturers in their expertise.

- The alumni visit our institute to guide the students for Supra, Go Kart, Robocon events and give suggestions for final year student's projects.
- The alumni interacts with the students and share the knowledge about recent technological developments in the industries and guide them for higher studies and job opportunities.
- The alumni motivate the students to become an entrepreneur and guide them about the facilities to be availed from the Government to establish small scale industry.

Name of alumni	Contribution in connection with National/ international competitions and extracurricular activities				
	Name of Academic Competition	Name of cultural/Sports Competitions	Name of events Annual Aocial Gathering	Name of insocial service activities organized	Contribution in Placements and Internship
Pratik Rajmane	Guided Students for Hihger Studies opportunities abroad.	Purshottam Karandak in 2013			
Shree Adsul	Guided Students for ROBOCON (2015 till date) Guest Lecture on Robotics				Internship for Mechanical Students  Placed 6 Students till date
Swapnil Dhawade	Guided Students for ROBOCON (2015 till date)	Conducted Acting Workshops for Students			
	Guided Students for Go-Kart and Supra	PURUSHOTTAM and FIRODAYA KARANDAK (2015-18)			
Ankur Jamgaonkar				Short Film Making on Swatch Bharat	
Sachin hole & Sagar Bhong	Workshop on Micro controller for E& TC Students				Intership for E&TC students

Ajit Solunkure	Guided Students for Go-Kart and Supra				
Rajni Ravat & Avinash Suradkar	Workshop on Embedded for E& TC Students				
Aniket Gaikwad			Dance Workshop for Kshitij Annual Social Gathering		
Neha Dumane				Swacha bharat abhiyan(2016-17)	
Mangesh Divate	Signed MoU with Collge for IIP				
	Guest lecture on Linux				
Hariom Marathe	Provided resources for SAE SUPRA (2016-18)				Internship for Automobile students
Mayur Sakhare		Sponsored T-Shirts for College Cricket Team		Blood donation(2017-18)	
Nayan Wagh				Street play(2017-18)	
Sharad Jadhav	Expert Lecture on 3D Printing				
Dnyeshwar Shinde	Guest Lecture on C#				
Bhimashankar Dawanipurge	SAE SUPRA (2017-18)				
	GO-KART (2017-18)				
	ROBOCON				
	Training for Technical Aptitude and Competative Exams				



<b>File Description</b>	<b>Document</b>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

**5.4.2 Alumni contribution during the last five years(INR in Lakhs)**

? 5 Lakhs

4 Lakhs - 5 Lakhs

3 Lakhs - 4 Lakhs

1 Lakh - 3 Lakhs

**Response:** <1 Lakh

<b>File Description</b>	<b>Document</b>
Alumni association audited statements	<a href="#">View Document</a>

**5.4.3 Number of Alumni Association / Chapters meetings held during the last five years****Response:** 5

## 5.4.3.1 Number of Alumni Association /Chapters meetings held year-wise during the last five years

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

<b>File Description</b>	<b>Document</b>
Number of Alumni Association / Chapters meetings conducted during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Report of the event	<a href="#">View Document</a>

## 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:

The vision and mission of the institution are set and associated with global challenges, problems and it's solution strategies

##### Quality policy:

“We, at Dhole Patil College of Engineering, are committed to impart quality education in Technical and Management streams as per the needs and expectations of the interested parties. We are also committed to satisfy applicable requirements and continual improvement of Quality Management System. We shall strive to keep pace with the fast developing scenario of technology and socio-economic environment with the vision to develop World Class Technical Institution”.

##### Distinctive characteristics of Vision and Mission:

##### Role of management in Design and Implementation of quality policy:

##### Quality Teaching and quality services:

##### objectives:

**Governing Body:** It provides guidelines to maintain high standards in imparting education by setting objectives relevant to policy, hiring quality professionals, rewarding the achievers, provide infrastructure and facilities, equipments and encouraging optimum utilization of the resources.

**Principal:** He motivates faculty, supporting staff and students to maintain a competitive; yet conducive academic environment; monitors overall administration and ensures the availability of infrastructure and execution of support services, setting up rules and regulations of the institution, identifying and inducting quality employees and their welfare. Liasoning with Govt. authorities and management, team building with unique culture are regularly practiced. Innovative modern management practices such as participatory decision making, transparency in administration, collective responsibility, introducing innovative modern tools and teaching techniques and services, training and creative development of faculty and students are the key points of duties.

**Faculty:** He is the executor to maintain institutional values productivity, to integrate individual and institutional interest in services, to maintain uninterrupted academic schedules, impart quality and creative education, applying various techniques in pedagogy to suit the requirement of subject, examining and assessing the students in a transparent way and in time, adherence to regulation, enrichment and utilization of library as a knowledge resource and self upgradation through research and continuing higher education.

##### Action plan and institutional strategic plan at various operational processes:

**Objectives:**

**Admission:** To ensure full admission with equal opportunity based on Merit.

**Curriculum:** To ensure quality education through innovative, planned effective teaching-learning processes.

**Placement:** Ensuring job opportunity through skill building and differed placement.

**Personality Development:** Inculcating value added co-curricular and extracurricular activities.

**Administration of services:** To provide effective support services with office automation.

**Social responsibility:** Involving students in social activities like NSS..

**Foreign University Visit:** Honorable Chairman Sri.Sagar Dhole Patil has visited **SOUTH FLORIDA UNIVERSITY** located in Tampa Bay, Florida's spectacular west coast to participate in seminar on higher education to replenish technological resources. Consequently, DPCoE is fastest growing institute in Pune under his patronage and dissemination of his experience.

With the above responsible team, plans and mechanisms are designed and modified to execute the principle and objectives of Vision and Mission which moulds the students into 'a value based technically competent and socially responsible citizen'.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

**6.1.2 The institution practices decentralization and participative management****Response:**

The college has decentralized governance system with a mechanism for delegating authority and responsibility. It has operational autonomy at various levels of functioning as described in the case study.

**Case study:**

**Title: - Modernization of Automobile Engineering laboratories. (AY 2016-17 and 2017-18.)**

**Motivation:**

Indian auto industry accounts for 7.1 per cent of GDP with 2W have 80 per cent market share. India is a prominent auto exporter which grew to 15.81% in 2017-18. The auto industry is set to major changes in electric vehicles as per emission and safety norms. Electric cars are expected to increase sales as per vision

of Government of India to 60, 00,000 electric and hybrid vehicles by 2020.

### Modernization:

Automobile Department modernized 1) Vehicle Performance and Testing and 2) Vehicle maintenance laboratory by procuring Two wheeler chassis dynamometer, Two & four wheeler lift, air compressor, Computerized wheel balancer, pneumatic tools and trolley etc.

### Mechanism:

- 1) A technical expert team consisting HoD and faculty was formed to decide technical specifications, to carryout market survey, area & structural requirement, financial budget etc.
- 2) The presentation was carried out in Purchase committee and Governing body and necessary approvals were obtained.
- 3) Quotations – comparative statement- raising purchase order standard procedure was followed.
- 4) The process of installation and demonstration was carried by supplier with help of Laboratory assistant and Lab incharge faculty.
- 5) Hand on practice was given to all Mechanical and Automobile department students by faculties.
- 6) The responsibilities of maintaining the facility in good working condition was assigned to concern lab incharge faculty and lab assistant.

### Outcomes:

- 1) The gap between academia and industrial needs was fulfilled with help of modernized laboratory facility intern upgrading the students knowledge.
- 2) The facility was extended to outside colleges on nominal payment basis which results in income to the college.
- 3) It has created an opportunity for research work and consultancy.

Table 6.1.2 reflects the income generated through laboratory service.

Table 6.1.2

Sr.No	Academic year	Date of outside student visit	Name of the College	Amount Received
1	2016-17	19 Oct 2016	Samarth Engg College, Belhe	Rs 10000/-
2	2017-18	3 April 2017	Govt. College of Engineering, Awasari	Rs 22500/-

3	2017-18	16 April 2018	Govt. College of Engineering, Awasari	Rs 15000/-
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**Future plans:**

- To establish automotive service station in campus.
- Servicing of staff and students vehicles at subsidized cost.
- To commence add- on course on service technician.
- To develop curriculum and commence course on skill development and enrichment courses.
- To enhance training and placement for students.

To evolve entrepreneurs in automobile sector.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

## 6.2 Strategy Development and Deployment

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

**Response:**

DPCoE has strategic plan for national recognition and to emphasize transformation of students into professional engineers and successful entrepreneurs by implementation of quality policy as mentioned in case study below.

**Case study:**

[International Organization for Standardization \(ISO 9001:2015\) certification to DPCoE](#)

**Motivation:**

ISO 9001:2015 has a Quality Management System (QMS) to certify any organization. Standards in QMS principles have high customer focus and motivation for continuous improvement. The objective is to provide conformed quality in education and thereby to satisfy stakeholders.

**IQAC:**

The IQAC recommended ISO certification for the college in October 2015 to develop a consistent quality system with the vision to improve the academic and administrative performance of the college. It intends to promote global quality culture and instill best practices shown in table 6.2.1(a).

**Table 6.2.1(a)**

<b>Calendar of ISO 9001:2015 certification</b>	
Quotation from BSI and Shree Consultants and finalization with latter	
ISO process is approved by Management	
ISO Chief Coordinator (CC) was appointed by Management	
ISO CC appoints core committee	
Documentation as per ISO was implemented with effect from 15.10. 2016	
Training to core committee for ISO process by Shree Consultants	
Training to faculty for internal auditor certification by Shree Consultants	
Examination and internal auditor certification by Shree Consultants	
Training on preparation of documents to ISO chief coordinator by Shree Consultants	
Training to all faculty by ISO CC	
Preparation of process manuals for academic, admin, library and TPO	
Preparation of Quality Management System (QMS)	
Internal audit by certified auditors	
Audit plan and schedule	
Summary of Non conformities and their closure	
External audit and report submission	
Management Review Meeting (MRM)	
Contacting certifying agency – TUV NORD- Germany	
Date of certification: 10.11.2017	

**Quality objective status:****Table 6.2.1(b)**

Sr.No.	Objectives	Indicator	Required Resources	Methodology of measurement	Frequency of monitoring	Responsibility
1	To improve student satisfaction	S.S.I.	Competent faculties, availability of required infrastructure	Calculate student satisfaction index semester wise	Semester wise	Respective HOD
2	To enhance student results.	% Passing	Competent faculties, availability of required infrastructure	Calculate % passing of branch wise semester wise results	Semester wise	HOD
		% First Class	Competent faculties, availability of required infrastructure	Calculate % of First Class of branch wise semester wise results	Semester wise	HOD
		% Distinction	Competent faculties, availability of required infrastructure	Calculate % of Distinction of branch wise semester wise results	Semester wise	HOD
3	To enhance	Numbers	Budget for	The number	Year wise	HOD

	the knowledge of the faculty		faculty competency enhancement activities	of training programs, seminars, workshops attended by faculties		
4	To enhance the student development through co-curricular and extracurricular activities	%	Budget for co-curricular and extracurricular activities, availability of required infrastructure	Plan Vs Actual of departmental event calendar	Semester wise	HOD

#### Outcome of ISO 9001:2015 certification:

1. Competitiveness of students is enhanced.
2. Response of students to internship, industrial visits and industrial project activities are enhanced.
3. Students are volunteering in co-curricular and skill based activities in the college.
4. Response for admission to programs is comparatively better and expected revenue generation is more than last year.

File Description	Document
Any additional information	<a href="#">View Document</a>
Strategic Plan and deployment documents on the website	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

#### 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:

The Management, Principal and HoD work in a team for the design and implementation of quality policy for the institute. The institute has two apex bodies, governing body (GB) and local management committee (LMC) responsible for finalization and review of its quality policy. The representatives of different stake holders are also involved in the design of quality policy. The role of management, principal and faculties in design and implementation of quality policy and plans is as follows.

##### Role of Principal

1. To support and develop the quality of teaching-learning process and evaluation system.
2. To delegate the authorities in the organizational hierarchy.
3. To assure the Execution of duties and responsibilities led down by University Act and government regulations.
4. To encourage the faculties for quality improvement of the college through research, guest lectures, seminars, etc.
5. To assure regular maintenance of infrastructure and equipment.
6. To emphasize on technology and values.
7. To ensure conducive atmosphere of freedom of quality, experiment and creativity.
8. To lead as a chief Facilitator and revolutionary.
9. To define and delegate responsibilities to the staff depending on their capabilities.

### **Role of Head of Department**

1. Overall in-charge of department. Required to ensure smooth functioning of the department in addition to teaching load.
2. Nomination of the various co-coordinators /in-charges/TGs for smooth running of department.
3. Ensure that all the staff members of the department to perform their duty effectively & efficiently.
4. Ensure the quality project work and seminar topic of the students in consultation with other faculty.
5. Necessary steps to fulfill the annual requirement of the department like laboratory equipment, department library books, internet facility, stationery, and consumable items etc.
6. Monitor and take necessary action for processing of activities in the department as per academic process plan and calendar of events.

### **Role of Faculties**

1. To complete the syllabus in a stipulated time as per the University norms.
2. To observe and follow the rules and regulations regarding service and duties led down by University Act.
3. To help in designing of curriculum, continuous assessment of conduct of the curriculum and development of the same in view of the relevant needs.
4. To communicate with students for their personality development and academic pursuits.
5. To perform Administrative duties related to examinations, admissions, discipline, etc.
6. To participate in research activities.
7. To work as a Teacher Guardian and counselor for the students in their curricular and extra-curricular development.

### **Role of Librarians**

1. Responsible for the overall in charge of the library.
2. Maintains documentations of books, journals, magazines, newspapers, CD's & library materials
3. Prepares a periodical requirement of books and journals to students and Faculty Member.
4. Responsible for maintaining and updating e-journals and all teaching aids.
5. Keeps record of library materials and report to the Principal for any discrepancy.



File Description	Document
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

### 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	<a href="#">View Document</a>
ERP Document	<a href="#">View Document</a>
Details of implementation of e-governance in areas of operation Planning and Development,Administration etc	<a href="#">View Document</a>

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

**Response:**

The management, principal and faculty members play significant roles in the following committees mentioned in table 6.2.4 below.

Table 6.2.4

Sr. No.	Name of committee	Effectiveness in roles and responsibilities
1	Local Management	Finalizes quality policy and

	Committee	its review time to time
2	Internal Quality Assurance Cell (IQAC)	It strives for holistic development of the college ensuring efficient and progressive academic performance.
3	Internal Complaint Committee	It strives for prevention, prohibition and redressal of sexual harassment of women employees and students in the college.
4	Anti Ragging Committee	To monitor and observe the performance of anti-ragging squad in prevention of ragging in institution.
5	Anti Ragging Squad	To make surprise visit on hostel and other places vulnerable to incidence and having the potential of ragging.
6	Right To Information	To bring Transparency & Accountability in the working of every public authority.
7	College Development	To develop college infrastructure, maintenance, lab developments and overall development of faculty.
8	Research & Development	It work on create interest of research in student and faculty. Also develop the research laboratory according to need.
9	SC-ST Cell	All affairs related to SC/ST reservation implemented in the institute according to Indian Constitution and registering the complaints in writing from SC/CT teachers employees and student and address it to higher authority for resolution.

NAAC

**An example for activity that successfully implemented:**

**Anti-Ragging Committee:**

The Anti Ragging Committee is formulated in the college as per the guidelines and norms of Maharashtra Prohibition of Ragging Act No 33 of 1999 (15/5/1999) and directions of Savitribai Phule Pune University.

The committee executes following disciplinary guidelines against ragging.

1. SPPU guidelines are described in the college website in connection with anti ragging.
2. Awareness about anti ragging is brought to the notice of all students in the college during various meetings.
3. First year students and parents are cautioned about menace and ill effects of ragging during induction program.

4. Teacher Guardians caution their respective students to desist from ragging activities during the meetings held time to time.
4. Teachers perform vigilance duties in hostel to redress grievances of first year students.
5. College displayed anti ragging instructions in various strategic locations. The display boards highlight details about prohibition, penalty, suspension and dismissal of students those involve in ragging activities.
6. Anti ragging related UGC and SPPU circulars are displayed or shared to students time to time.
7. Students furnish anti ragging declarations online to UGC.
8. The Hon. Chairman describes about anti ragging during his meetings with students.
9. The Hon. Chairman keeps strict vigil on ragging during his frequent visits to the hostel.

**Outcome:** No case is reported so far in the college premises.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

### 6.3 Faculty Empowerment Strategies

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

**Response:**

DPCoE provides following welfare schemes for teaching and non teaching staff members .

- 1.Provident fund facility is provided to all eligible faculty members of the institute.
- 2.Loan facility provided to teaching and non-teaching staff through Bank.The institute has tie-up with different banks to provide financial support through loan facility to all faculty members.
- 3.Sponsorship for attending academic programs. Financial support is provided to all staff members to attend the various conference, workshop, STTP programs etc.
- 4.Group medical insurance policy has been initiated by institution for all staff member.
- 5.Free residential facility is provided in college premises for non teaching employees.
- 6.Free telephone/ mobile facility to selective staff.

7.Free hostel facility for teaching and non teaching staff.

8.Sponsorship facility for Research & pursuing Ph.D

9.Special workshops on recreational facilities in Yoga & Stress Management are conducted for all staff members once in the year through Yoga Expert.

10.Ambulance facility to all faculties (24\*7) in case of emergency

11.Ruby Hall Clinic has tied up with DPCOE, to offer Medical Treatment to students.

12.Free Medical Health Check-up camp is organized for teaching and non-teaching staff members by GenexHR in college campus. The institute also organized eye check –up camp for faculty members Lawrence and Mayo.

13.Maternity leave facility

14.Paternity leave for faculty.

15.Gym facility is available for all students and staff members of the DPCOE.

16.Study leave for higher education (e.g. Ph.D)

17.Sport facility is provided to teaching and non teaching staff.

18.Concession in fees to wards of teaching and non-teaching staff in college and school.

**Table 6.3.1**

SI No	Number of beneficiaries in teaching and non teaching faculty for the last five years					
	Name of welfare schemes	2017-18	2016-17	2015-16	2014-15	2013-14
1	Provident fund faculty members	130	150	166	165	136
2	Loan facility	12	23	2	5	10
3	Group medical insurance policy	0	0	0	178	154
4	Free hostel and boarding facility	11	8	10	8	5
5	Sponsorship facility for Research & pursuing Ph.	4	4	1	1	2

	D					
6	Sponsorship to participate in academic programs	34	22	22	37	33
7	Free recreational facilities in Yoga and meditation center	79	83	75	0	0
8	Ambulance facility	18	13	11	8	7
9	Maternity leave	0	0	0	0	2
10	Paternity Leave	0	1	1	0	0

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

### 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:** 38.05

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
44	124	26	46	38

File Description	Document
Details of teachers provided with financial support to attend conferences, workshops etc during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 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:** 8.6

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
17	13	08	02	03

File Description	Document
Reports of the Human Resource Development Centres (UGC ASC or other relevant centres).	<a href="#">View Document</a>
Details of professional development / administrative training programs organized by the Institution for teaching and non teaching staff	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 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:** 69.69

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
115	123	105	66	88

File Description	Document
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers).	<a href="#">View Document</a>
IQAC report summary	<a href="#">View Document</a>
Details of teachers attending professional development programs during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

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

#### Response:

DPCoE has performance appraisal system to assess progress and potential of faculty. The system is adopted for overall growth and development of all concerned.

#### Objectives:

The performance appraisal system intends to identify strength and weakness of faculty members and consecutively plan faculty development programs. It is also used to build a database for career advancement.

#### Teaching Staff:

#### Factor included for performance evaluation (Score is 100):

Weightage for every KPI is 5 grade points

Sr. No.	Key Performance Indicator (KPI)
1	Number of subjects taught with result percentage
2	Average feedback on subjects taught to students
3	Number of papers published
4	Number of books published
5	Number of sponsored projects undertaking
6	Number of hands on practice workshops organized
7	Number of awards/ appreciations
8	Number of expert lectures delivered
9	Number of expert lectures arranged from industry/reowned institutes



10	Number of national/ international conference participated
11	Number of certificate programs participated
12	Number of certificate programs organized
13	Number of major responsibilities in department
14	Number of major responsibilities in College
15	Contribution to laboratory development
16	Number of internship offered in industry by teacher's effort
17	Number of value added certificate courses (more than 30 hours) organized
18	Involvement in placement activities
19	Number of industrial visits organized
20	Contribution to college admission activities

**Non teaching Staff:**

Weightage for every KPI is 10 grade points

Sr. No.	Key Performance Indicator (KPI)
1	Regularity and punctuality
2	Interpersonal relations
3	Coordination in academic activities
4	Coordination in administrative activities
5	Coordination in admission activities
6	Maintenance of equipment
7	Maintenance of laboratory documents
8	Involvement in skill development activities of students
9	Involvement in skill development activities of faculty members
10	Sympathy/ empathy

**Evaluation scheme for teaching and non teaching staff:**

Grading point range	Grade
80-100	A
60-79	B
50-59	C
40-49	D

File Description	Document
Any additional information	<a href="#">View Document</a>

## 6.4 Financial Management and Resource Mobilization

### 6.4.1 Institution conducts internal and external financial audits regularly

#### Response:

The college maintains bills and records regarding the fees collection from students and accounts is maintained which is audited by chartered accountant. DPCoE has internal and external audit mechanism quarterly by Mr. Karan Kudale and Company, Chartered Accountants, Pune. They submit quarterly audit report and necessary compliances are done accordingly. External Audit / Statutory Audit are also done by Mr. Karan Kudale and company, Chartered Accountants, Pune every year. They submit audit report and audited financial statements to the college authorities. Required compliance is done by the college.

#### Queries For DPCoE Audit For FY 2017-18 Listed Below :

1 ) On 18.04.17 Gauri Motors of Rs. 8534/- bill Found bur entry in Tally Not Found ?

**Compliance :** The Entry shown in Direct Payment on 16.05.17 through bank.

2 ) On 14.07.17 OMS Times Internet Ltd Entry Not Made of Rs. 70047/- ?

**Compliance :** Entry Done

3 ) On 05.07.17 Colling Zone Bill Amt of Rs. 4000/-and in Tally it is Rs. 4400/- ?

**Compliance :** Entry Rectified in Tally

4 ) On 18.06.17 Auto power Gen Sys Pvt Ltd TDS Not deducted on Rs. 5304/- ?

**Compliance :** The amount is less than limit so it is not deducted.

5 ) On Web Site Designer Mr . Ranjan Rajgopaul bill TDS Deducted on Basic ?

**Compliance :** If TDS is deducted on total bill than the TDS Is generated on VAT .

#### Queries For DPCoE Audit For FY 2016-17 Listed Below :

1.Salary of Mrs. Gazala Patel is less Rs. 10000/- for the month of Jan – 2017 Professional Tax Deducted Rs. 175/- ?

**Compliance :** Balance of 25/- which deduct in upcoming month.

2 ) TDS was not deducted for Just Dial bill dated 05.04.06?

**Compliance :** The amount is given as a advance given in FY 2015-16 at that time TDS is deducted as per rule.

The queries were raised by the auditors, subsequently action was taken. Other queries are not measured and objections worries in the report were complied accordingly. Corrective actions were taken and suggestions were implemented. It was noted to avoid similar mistakes in future.

File Description	Document
Any additional information	<a href="#">View Document</a>

#### 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:** 1702.21

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
778.85382	2.06836	363.79498	375.00895	182.47902

File Description	Document
Details of Funds / Grants received from non-government bodies during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Annual statements of accounts	<a href="#">View Document</a>

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

**Response:**

DPCoE has a finance committee consisting of following members for monitoring, controlling and directing mobilization of funds and optimum utilization of resources shown in table 6.4.3

Finance committee		
Sr No	Name	Designation
1	Sri. Sagar Dhole Patil	Hon. Chairman
2	Smt. Uma Dhole Patil	Hon. Secretary
3	Dr. Nihar Walimbe	Principal
4	Dr. U. Shirsat	Professor (Mechanical)

		Engineering)
5	Prof. Siddharaj Allurkar	Head of Department (Automobile Engg)
6	Mr. Girish Kulkarni	Finance and Accounts

DPCoE is a self-financed and hence major source of fund is students tuition and other fees. Other sources includes donation received for education purpose from wellwishers to Dhole Patil Education Society and University grants. The income thus generated and expenditures are certified by the Chartered Accountant regularly.

#### **Optimal utilization of resources: Annual budget:**

Annual budget is estimated to cover various receipts and various expenditures. The budget is estimated by the authorities, sanctioned and reviewed periodically by the Management.

#### **Process of Budget Allocation and Mobilization:**

1. One month before the commencement of the semester, all the Lab In-charge respective to their branch submit the requirement of procurement of new instruments or machines if any and maintenance details of existing equipment to the Head of Department.
2. All the Head of Department prepare annual budget report required for their respective department and submit the same to the Principal Office and IQAC.
3. After submitting Departmental annual budget to the Principal Office and IQAC, the proposal is to be sent the Local Management Committee through Principal Office and IQAC.
4. The Local Management Committee conducts a meeting Headed by Honorable Chairman and Principal and the annual budget is sanctioned and is allocated to respective departments.
5. After getting approval from the Local Management Committee the detailed annual budget copy is sent to the Heads of the Departments.

<b>File Description</b>	<b>Document</b>
Any additional information	<a href="#">View Document</a>

## **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:**

**(A) Best Practice-I: Dhole Patil All Round Development Scheme**

**1. Title of the Practice:**

Dhole Patil All Round Development Scheme (DPARDS)

**Need:**

Personality of an individual decides his position in competitive corporate world. The focus is on one's basic personality traits such as elegance, accomplishments and expressions. The elegance of an individual exhibits in presentation and grooming with dress etiquette for various occasions.

## **2. Objectives of the Practice:**

1. To develop good communication and leadership skills.
2. To develop students to the level of employable graduates.
3. To achieve long term career goals of students.

## **3. The Context:**

Majority of students admitting to the DPCoE are hailing from rural areas with lack of communication, confidence, abilities, motivations, soft skill etc. Hence, it was needed to design the programs to fulfill the deficiencies of the students.

## **4. The Practice:**

The practice is implemented for First year Engineering students effectively under the guidance of First year in charge.

## **5. Evidence of Success:**

1. Several students participated in DPARDS activities and obtained prizes.
2. The students are inspired to participate in co-curricular and extracurricular activities.
3. Students are able to organize the national events like Independence Day and Republic day. They are involved in parade march, speeches about freedom fighters and drama on soldier's sacrifices for the nation, etc.

## **6. Problem Encountered and Resource Required:**

- a) Many students were hesitating to participate in DPARDS activity during initial stages.
- b) Accommodating schedule for DPARDS activities along SPPU directed class timetable was cumbersome.

## **(B) Best Practices-II Academic Audit:**

### **1. Title of the Practice:**

Academic Audit

### **2. Objectives of the Practice:**

The academic audit is scientific method to review quality of academic activities in the college. It is concerned with conformance of quality. The academic audit is undertaken by IQAC to improve quality of

teaching learning process. It is intended to assure quality education, develop good learning environment, formulate teaching learning methodologies, to implement career oriented activities and to familiarize teachers about their roles and responsibilities, etc.

### 3. The Context:

IQAC formulates quality improvement strategies and adopted by DPCoE for teaching learning activities, Hence semester pre-commencement preparations are done as mentioned below,

1. Departmental Academic Calendar
2. Teaching Lecture plans
3. Course learning Objectives and Course Outcomes
4. Lecture notes, NPTEL Video
5. Updating the library facilities with demand for procurement of books as suggested by the faculty
6. Reviewing laboratory facilities to cater needs of revised syllabus.

### 4. The Practice:

1. Internal academic audit is performed by certified auditors and the report is submitted to the IQAC.
2. Monthly audit is performed by the head of the department for syllabus coverage.

### 5. Evidence of Success:

1. Teaching methodologies of faculty have been improved.
2. Results of the students are improved

### .6. Problem encountered and resource required:

1. Difficulties were raised while taking frequent feedbacks from students.
2. Technical problems in use of LCD/ICT with limited numbers.
3. Improving the attendance of students in extra lectures.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

### 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:

The institute has developed and adopted two methods for reviews its teaching learning process, structures & methodologies of operations

**1. Evaluation of teaching and learning:**

Academic monitoring is performed by IQAC and authorities for effectiveness of teaching and learning. The authorities keep vigil on in-class observation, course material review, evaluation to assess knowledge and reflection by students. IQAC regulates the academics as per schedules of institute and departmental calendar.

**2. Reviews of teaching learning process:**

Review involves two types viz. formative and summative type. The formative type intends to improve teaching by regular conversation among colleagues. In summative or evaluative type, reviews are intended to judge overall effectiveness in teaching and learning activities.

**The IQAC reviews teaching learning process mainly by following two methods.**

1. Monitor dissemination of practices, measurement and progress review of students.
2. Implement evaluation mechanisms to faculty to identify and promote better teaching learning practice

Sr. No.	Practice to monitor and review progress of students
1	Teaching plan: It is best practice adopted in teaching and learning based on need and interests of students.
2	Pre-course survey: It emphasizes basic knowledge of learner, rating, pedagogical approach to be adopted and learning objectives with the expectations of students from faculty and organization.
3	Review of teaching plan after fifth week: It emphasizes course plan and actual coverage. The discrepancies and action taken report by the faculty is reviewed.
4	Review of teaching plan after ninth week: same steps of fifth week are repeated after ninth week. In semester examination is conducted and results are viewed. Again slow and medium learners are more focused to improve their results.
5	Post course survey: mode of dissemination of knowledge, time adequacy to cover the course, gap

	between the course and latest technological developments and steps taken to minimize the gap are highlighted.
6	Outcomes: The outcome of academic and professional excellence is lifelong learning and life skills. Students exhibited excellent performance in curricular, co-curricular and extracurricular activities and competitions.

## 2. Implement evaluation mechanisms to faculty to identify and promote better teaching learning practices:

The evaluation process is conducted twice in a semester that involves personality traits and grade points as shown in following tables.

Table 6.5.2 (b)

SI No	Teacher evaluation process	
	Personality traits for evaluation	Staff grade points
1.	Regularity and punctuality	10
2.	Recapitulation and clarity of objectives	10
3.	Planning and organizing contents	10
4.	Confidence, command and proficiency	10
5.	Clarity and audibility of voice	10
6	Demonstration of concepts with relevant examples	10
7	Interactivity and counseling	10
8	Inspiration and motivation	10
9	Verbal and non verbal communication skills	10
10	Classroom management	10
Total marks:		100

Table 6.5.2 (c)

Scoring Method	
Assessment parameter	Staff grade points



Outstanding	10
Very Good	8
Good	6
Fair	4
Satisfactory	2
Un satisfactory	0

Table 6.5.2 (d)

Summary of staff grading	
Average Score (%) of all subjects	Grading
80-100	A
60-79	B
50-59	C
<50	D

File Description	Document
Any additional information	<a href="#">View Document</a>

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

**Response: 5**

#### 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
12	06	03	01	03

File Description	Document
Number of quality initiatives by IQAC per year for promoting quality culture	<a href="#">View Document</a>
IQAC link	<a href="#">View Document</a>

### 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:** C. Any 2 of the above

File Description	Document
e-copies of the accreditations and certifications	<a href="#">View Document</a>
Details of Quality assurance initiatives of the institution	<a href="#">View Document</a>
Annual reports of institution	<a href="#">View Document</a>

**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:**

Incremental improvements are accomplished to achieve progress and sustain quality education for global competitiveness. Following quality initiatives are initiated in the academic and administrative domains.

**Academic record:**

**1. Learning objectives:** they are defined explicitly by the teacher and familiarized among the learners.

**2. Record of initial briefing and pre-course survey in academic record book:**

It emphasizes basic knowledge of learner, rating, pedagogical approach and learning objectives with the expectations of students from faculty and organization.

**3. Review of teaching plan in academic record book:**

It emphasizes course plan and actual coverage. The discrepancies, action taken report and amendments in lesson plan for requirement of extra classes are reviewed.

**4. Post course survey in academic record book:**

It is meant for dissemination, time adequacy, gap between the course, latest technological developments and steps taken to minimize the gap are highlighted. Remark on meeting of Program Objectives and

Program Educational Objectives are mentioned.

**5. Effective learning methods:**

Student centered learning is emphasized with participatory and experiential learning through project methods, experimental methods and learning through interactive softwares are introduced.

**6. Faculty development programs:** They are arranged to enhance teaching skills of faculty members.

**7. Formation of Internal Quality Assurance Cell:** It was constituted for quality assurance through periodic academic audits for consistent development of quality system to improve the academic performance of the college. It also intends to promote global quality culture and instill best practices.

**8. ISO 9001:2015 certification:** it has Quality Management System for higher customer focus and motivation for continuous improvement with conformed quality to satisfy stakeholders.

**9. Structured feedback on curriculum by students, parents, teachers and alumni:** Soft skill and skill development programs are arranged. Industry institute interactions are increased by means of internships, industrial visits, sponsored projects and guest lecturers from industry experts.

**10. Value added, add-on, hands on practice and skill development courses:** Students are exposed to several co-curricular and extracurricular activities, competitions and won prizes.

**11. Students support infrastructure:** Computing facilities are strengthened and upgraded. Wi-Fi is provided in campus. Laboratories in Automobile department are upgraded with modern facilities. E-YANTRA– Robotics lab is established.

**12. Research and Development:** Research committee is formed to ensure that it appraises teaching staff regarding research projects by various funding bodies, consultancy and publication in journals.

**13. Faculty enrichment:** They are enriched by FDP, workshops, refresher courses, seminars and conferences, etc.

**14. Centre of Excellence:** It is developed for conducting professional courses.

**15. Memorandum of Understanding with CoEP:** The objectives are faculty exchange in the identified fields for training and delivering lectures, development of new laboratories, sharing of existing infrastructure, information exchange through e-library, jointly organize conference, workshops and training programs, good governance practices, benchmarking and gap analysis on various academic, managerial, administrative issues.

**16. Memorandum of Understanding with industries:** They are signed with the objectives of increasing industry institute interactions.

**17. Training and Placement Cell:** Students are trained on personality development programs, soft skills and aptitudes.

<b>File Description</b>	<b>Document</b>
Any additional information	<a href="#">View Document</a>

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:** 21

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
5	3	4	5	4

**File Description**

**Document**

Report of the event

[View Document](#)

List of gender equity promotion programs organized by the institution

[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:**

**1. Safety and Social Security:**

The committees are formed with women's representatives to resolve gender sensitive and social security concerned issues in the college.

**Role and responsibilities of committees:**

The committees shoulder responsibilities of vigilance and redress them. A few committees with their roles and responsibilities are mentioned in the table 7.1.2 below.

Table 7.1.2

<i>Sr.no</i>	<i>Committee with women representatives</i>	<i>Roles and responsibilities</i>

1	Admission Committee	It monitors and controls discrimination against female students during admission process. They are engaged in counseling and guidance to them and their parents.
2	Anti-ragging committee	It prohibits, prevents and eliminates ragging in spoken or written act, teasing, treating with rudeness, indiscipline activities and embarrassment to students. Victimized female students cases are referred to internal complaints committee if any.
3	Discipline Committee	It enforces discipline, nurture ethos; instill good character and conduct, professional and social values among students in gender sensitive issues.
4	SC/ST complaint committee	To provide special inputs to female students regarding academic, administrative or social anxieties.
5	Internal Complaint Committee	To have critical role in prohibition, prevention and redress sexual persecution cases of female students and faculty members in the college. It vigils against misconduct, malpractice, ragging, indiscipline, sexual harassment, assessment, victimization, bias, exploitation and security.

Safety and social security exists to female faculty and students. The college arranges transportation facility to students and staff.

#### **Role and responsibilities of Hon. Secretary and faculty members:**

Mrs. Uma Sagar Dhole Patil, Hon. Secretary, monitors welfare of female candidates. The college organizes safety awareness programs. The college maintains gender equity with involvement of all female faculty and students in all co-curricular and extracurricular activities in college, SPPU and national events. The gender equity is maintained in faculty and students' welfare committees.

#### **Role and responsibilities of security staff:**

Security staffs are on full time duty in the campus and CCTV is operational in strategic locations.

**Arrangements during college festival:**

Special security and transport arrangements are made for the safety of female faculty and students during annual festivals.

**2.Counseling:****Role and responsibilities of Teacher Guardian (TG):**

The TG and faculty monitor and counsel students in individual level or in a group to deal with their social concerns. All faculty members take care of welfare of students for their holistic development. Every TG is assigned with a group of 20-25 students who conducts periodic meetings to analyze their grievances and address them. Slow and medium learners are referred to remedial classes.

**Role and responsibilities of Professional Counselor:**

The college has a Professional Counselor, Mrs. Kanchan Desai to counsel students and faculty against depression, anxiety, distress, intellectual disabilities, communication disorders, examination phobia, panic, adjustments and separation disorder, memory loss, depersonalization and derealization, etc.

**3.Common Room:**

To facilitate female staff and students, the college has a spacious and comfortable common room with washroom facility for recreation, study and discussion during their leisure time. They can relax, socialize and interact with one another. The room is equipped with recreational facilities such as indoor games and newspapers.

**7.1.3 Alternate Energy initiatives such as:****1.Percentage of annual power requirement of the Institution met by the renewable energy sources**

**Response:** 10.95

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

**Response:** 32850

**7.1.3.2 Total annual power requirement (in KWH)**

**Response:** 299876

**File Description****Document**

Details of power requirement of the Institution met by renewable energy sources

[View Document](#)

**7.1.4 Percentage of annual lighting power requirements met through LED bulbs****Response:** 68.14

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

Response: 28798

7.1.4.2 Annual lighting power requirement (in KWH)

Response: 42266

**File Description****Document**

Details of lighting power requirements met through LED bulbs

[View Document](#)**7.1.5 Waste Management steps including:**

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

**Response:**

- **Solid waste management:**

The college is committed to minimize non- biodegradable solid waste produced by new constructions, demolition, renovation and large repair projects. The waste is diverted to low lying land area. The college looks after various options to reduce the production of wastes. Wastes generated in catering are segregated and reusable material e.g. Paper, is used or send for recycling while other is used for land filling etc. The magnitude of canteen solid waste mass is assessed by BE Civil engineering students and planned for its utility in production of biogas. Metal chips generated in workshops are disposed to vendors. The college initiated to minimize generation of paper wastes by utilization of digital communication services.

- **Liquid waste management:**

Treatment is essential for directly disposed human effluents to reduce the toxic level of sewage to maintain healthy environment. Hence, design and management of sewage treatment plant play a crucial role in human welfare. The college intends to establish sewage treatment unit in the campus to segregate water and use it for gardening and construction sites after physical treatment and biogas production after biological treatment.

Preliminary survey for the sewage treatment plant, was carried out. Based on the survey a pilot plant was designed by Civil Engineering Students, in conjunction with different treatment sections. A collection pit of diameter 2.5 m and depth 3.5 m is used to collect waste water. The bar screen provision is made to exempt the solids having large surface area. Aeration tank is provided to supply fresh air to the waste water with volume of 4 cubic meter.



- **E-Waste Management:**

The E-wastes generated from computer keyboards, mouse and other components are dispatched to e-waste vendors for recycling. Hazardous wastes generated from electric products are challenge to ecosystem which needs to be addressed.

Accumulation of E-waste is carried out in Computer and Electronics department separte and classified regularly. A group of students is formed to carry out related activities. Students are informed about the E-waste and its environmental effects through Practicl sessions and NSS camps etc. Posters/ slogans made by the students are displayed in departments and in campus.Guidelines available from pollution control board and Government are made available to students from time to time.

The college manages the current environmental conditions in the campus to tackle the environmental issues and to educate students regarding their responsibility to the environmental protection for sustainable future for next generations.

DPCOE manages E-waste with E-waste bin in each department for the collection and disposes to authorized vendor once in a year.

### 7.1.6 Rain water harvesting structures and utilization in the campus

**Response:**

Rainwater harvesting is an environment friendly approach known as a Green Practice which keeps both groundwater table undisturbed and charging the aquifer. College encourages such green practice in Community Development Program, NSS Camps etc which brings people together for green and innovate approaches to fulfil the local need of water in villages. Nala bunding ( Vanarai type) two dams at Malad-Pune; Nala bunding ( Vanarai type) one dam at Karandi gaon Shirur, Pune;were constructed by staff and students through NSS camp. Water bund is created in college campus for holding water more than 50 lacs of litre. Rainwater and run-off storm water stored are used for gardening and watering the plants and under construction work. This has resulted in reduction of soil erosion in compus and increased water table. It has reduced water tanker requirement in Summer.

The institute is working continuously on this project with following objectives :

- Installations of tanks in hostel and in villages to collect roof rainwater in drought and arid zones.
- Installations in on-site ground water around bore wells.
- Working and guiding the farmers technically for constructing small ponds in the farms.

DPCoE Civil Engineering final year students prepared the project report on rainwater harvesting to aid water management, conservation and to recharge groundwater by capturing rainwater from rooftop run-offs and natural water bodies to augment community development work.The water management can minimize cost of draining storm water, get rid-off water logging in the vicinity and utility of water bodies in and around the campus.

The objective is to design a tank to store rainwater at rooftop of the building to cater potable water to the campus. The students designed four water tanks with a total of 60000 litres capacity for rainwater storage to meet water demand.

Details of rainwater harvesting plant are as follows.

- Rooftop area = 2387.14 square meter
- Average rainfall in college premises = 897.67 mm.
- Total quantity water may be stored = 1500000 litres
- Dimension of each tank=(2.5\*2.5\*3.2) cubic meter
- Demand for water in campus per day = 90000 litres
- Water from rain water harvesting = 60000 litres

The present designed roof top harvesting system would meet additional water demand for clening/ sanitary uses. Rainwater harvesting is eco-friendly and an economic practice.

### 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:

Students, faculty members and security staff are involved in following activities.

- **Bicycles:** - A few students utilize bicycle in the campus as part of their transport medium.
- **Public Transport:** - The College provides bus transportation facility for faculty and students. This reduces carbon pollution. Faculties are encouraged to share private transport facility.
- **Pedestrian friendly roads:** - Pedestrian roads are well maintained in campus.
- **Plastic Free Campus:** Plastic pollution is avoided due to enforced prohibition in the campus. All kinds of wrappers and plastic bags are collected and send for the the recycling. Students are constrained not to use Plastic and Themocol (Poly urethane foam) like materials while making projects, competition models, decoration for any function.
- **Paper-free office:** - A complete and independent ERP module from Vasundhara InfoTech is purchased and most of administrative work is undertaken using the module. The module is beneficial for library, administrative office, staff and students to manage and streamline operations.
- **Vegetarian:** Vegetarian food is served to customers in college canteen with envisage to minimize for global food-related emissions.
- **Green landscaping:** The campus has covered almost area by trees and plants for sustainable or eco-landscaping to minimize air, water, and soil pollution with ambition to create healthy recreation spaces. Regular plantation drives are organized by NSS wing of students. Guests are felicitated and honored in all college level functions by offering a plant. Regular maintenance of plants like

watering, weeding and fertilizing is carried out in a spacious environment. More than 250 number of trees of different species are available in the campus planted and taken care by the students and faculty. College has conducted Green Audit for the entire campus. This has resulted in high level of oxygen content in and the fresh air around the college. Students and staff together have planted of about 125 trees through NSS camps as part of environment protection programme at Malad and Karandi in Pune District.

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

**Response:** 1.25

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
6.44033	4.95856	4.05022	7.21164	3.25955

File Description	Document
Green audit report	<a href="#">View Document</a>
Details of expenditure on green initiatives and waste management during the last five years	<a href="#">View Document</a>

### 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	<a href="#">View Document</a>
link to photos and videos of facilities for Divyangjan	<a href="#">View Document</a>

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

**Response:** 23

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
6	3	5	4	5

File Description	Document
Number of Specific initiatives to address locational advantages and disadvantages	<a href="#">View Document</a>

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

**Response:** 29

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
8	7	4	4	6

File Description	Document
Report of the event	<a href="#">View Document</a>

**7.1.12**

**Code of conduct handbook exists for students, teachers, governing body, administration including Vice Chancellor / Director / Principal /Officials and support staff**

**Response:** Yes

<b>File Description</b>	<b>Document</b>
URL to Handbook on code of conduct for students and teachers , manuals and brochures on human values and professional ethics	<a href="#">View Document</a>

**7.1.13 Display of core values in the institution and on its website**

**Response:** Yes

<b>File Description</b>	<b>Document</b>
Provide URL of website that displays core values	<a href="#">View Document</a>

**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**

**Response:** Yes

<b>File Description</b>	<b>Document</b>
Details of activities organized to increase consciousness about national identities and symbols	<a href="#">View Document</a>

**7.1.15 The institution offers a course on Human Values and professional ethics**

**Response:** Yes

<b>File Description</b>	<b>Document</b>
Provide link to Courses on Human Values and professional ethics on Institutional website	<a href="#">View Document</a>

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

**Response:** Yes

<b>File Description</b>	<b>Document</b>
Provide URL of supporting documents to prove institution functions as per professional code	<a href="#">View Document</a>

**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:** 41

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
11	8	7	7	8

File Description	Document
List of activities conducted for promotion of universal values	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

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

**Response:**

DPCoE organizes national festivals like Independence day, Republic day and Labors day and birth/death anniversaries of personalities like birth anniversary of Dr. Sarvapally Radhakrishnan as teachers day, Sir M Vishweshwaraiah as Engineers day, Swami Vivekananda as Youth day, Dr. Babasaheb Ambedkar, Mahatma Gandhi, Mahatma Phule and Savitribai Phule, Chatrapati Shivaji Maharaj and Yoga day, etc.

National Festivals are celebrated with enthusiasm. Our students are on a mission towards better India. They come together breaking the boundaries of religion and caste. Thoughts of great Indian personalities sowed into the young minds through the exhibitions and programmes conducted on these days. Every year our institute organizes the national festivals and birth / death anniversaries of the great Indian personalities. The college organizes national festivals like January 26, August 15 with flag hoisting and cultural events are organized.

DPCOE celebrates the Independence Day with pride. The entire ambience is enlightened on the tune of national anthem. The NSS volunteers appreciated the fire brigade personnel for their skills, expertise and help. The students perform skits, speeches, dancing and singing and other cultural forms on patriotic themes.

DPCOE organizes Swaccha Bharat Abhiyaan in the college campus. NSS volunteers, hostel students, local

citizens also participate in the campaign to keep India clean.

Sr. No	Birth /Death Date (2013/14-2017/18)	Anniversary
1	January 3	Savitribai Phule Birth anniversary
2	January 12	Swami Vivekananda Birth Anniversary Youth Day Rajmata Jijau birth anniversary
3	January 23	Netaji Subhash Chandra Bose Birth Anniversary
4	January 26	Republic Day
5	February 3	National "Suryanamskar" Day
6	February 19	Chhatrapati Shivaji Maharaj Birth Anniversary
7	February 26	International Maths Day
8	February 27	Marathi Day
9	February 28	National Science Day
10	March 8	Women's Day
11	March 12	Yashwantrao Chavan Birth anniversary
12	March 15	Chhatrapati Shivaji Maharaj Birth Anniversary
13	April 14	BharatRatn Dr.Babasaheb Ambedkar Birth Anniversary
14	August 1	Balgangadharv Tilak Death anniversary Annabhau Sathe Birth Anniversary
15	June 21	International Yoga Day
16	August 15	Independence day
17	September 5	Dr.Sarvpalli RadhaKrishnan Birth Anniversary
18	September 14	Hindi Day
19	October 2	Mahatma Gandhi Birth Anniversary
20	October 15	Dr. APJ Abdul Kalam Birth Anniversary

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

**Response:**

**Transparency in financial, administrative and auxiliary functions:**

Transparency and openness are ensured by conducting proceedings by Governing Council and finance committee in planning, monitoring and controlling allocation of funds and its optimum utilization. DPCoE has quarterly internal and external audit system by Chartered Accountants and submit quarterly audit report and necessary compliances. External Audit / Statutory Audit are also done every year. The college has Right To Information ([http://RTI\\_https://www.dpespune.com/wp-content/uploads/2018/06/Right-to-Information-RTI-Cell.pdf](http://RTI_https://www.dpespune.com/wp-content/uploads/2018/06/Right-to-Information-RTI-Cell.pdf)) committee to maintain transparency and to deal with the grievances of stakeholders.

Vacancy positions are widely publicized through newspaper media and website time to time. The college maintains well defined transparency in all documents in administration and auxiliary functions. Annual report of academic year is available in the college website.

**Transparency in academic functions:**

The academic audit is undertaken by IQAC with assistance of ISO coordinators to improve quality of teaching learning process. It assures quality education, develop good learning environment, formulate teaching learning methodologies, career oriented activities and to familiarize teachers about their roles and responsibilities, etc.

**Communication to students, teachers and society:**

All functions are communicated to teachers in regular meeting. The teacher guardians familiarize activities to students and society through interactions and meeting time to time. Minutes of meetings of various committees are available for the stake holders. Admission information is made clear and transparent with integrity.

**7.2 Best Practices****7.2.1 Describe at least two institutional best practices (as per NAAC Format)****Response:****A) Best Practices-I****1. Title of the Practice:****Aid and Support for innovations.****2. Objectives of the Practice:**

- To bridge the gap between industry and institute.
- To encourage the faculty for new innovations.
- To encourage the students to take up projects with innovative idea.
- To inculcate entrepreneurial thoughts for startup.



### **3. The Context:**

Students participate in various technical- inter collegiate, University, state and national level Hackathons/ events and the college intends to build better career prospectus of students. The defined budget is utilized for research and development activities.

### **4. The Practice:**

The college authorities are enthusiastic to serve society at large. The management is committed for holistic development of students and faculty. The management sponsors various activities such as SAE SUPRA, ROBOCON and Go KARTING etc. to facilitate students to participate in national and international technical events.

### **5. Evidence of Success:**

Hybrid air conditioning system setup, solar PV project are executed by faculty, Automotive Air Conditioning Test Rig and Design and development of suitcase car are developed by faculty and students. Faculty member obtained two awards for his research paper. Students participated in National technical events like SAE SUPRA, Go KARTING and ROBOCON with awards. Students obtained 7th rank in SAE SUPRA 2017 National level competition. Students reached final round of Hackathon Defence Dept, at Bangalore.

### **6. Obstacles Encountered and Resource Required:**

The management had to prioritize utilization of the budget to establish infrastructure and human resources during initial stages. Consequently the management had second option for budgetary allocation for co-curricular activities.

## **B) Best Practices-II**

### **1. Title of the Practice:**

Skill Development Program for students and faculty

### **2. Objectives of the Practice:**

- To bridge gap between industry and academia.
- To motivate the students to become entrepreneurs.

### **3. The Context:**

To enhance aptitude, logical reasoning, comprehensive skills and to cope up with the industry requirements in current market trends.

### **4. The Practice:**

The goal is to improve professional capability and employability by virtue of technical and soft skills. Professional development and soft skill programs are arranged through DPARDS for first year students.

Software proficiency courses like CATIA, PRO-E, JAVA, ASP.NET, C++, AUTO CAD, STAAD PRO, MATLAB and HADOOP, etc are organized for second year students. Guest and expert lectures on recent technology are delivered by industrial experts. EDP, study in abroad, GATE, aptitude and software courses like HYPER MESH, FUSION360 and 3D printing, etc are conducted for students. The college organizes programs to train and motivate students for their participation in events like SUPRA, BAJA, GO-KARTING and ROBOCON, etc. German language training program, internships and industrial visits are arranged.

#### 5. Evidence of Success:

- Students won best innovative design award in SAE SUPRA virtual event.
- Students won best operator award in ROBOCON event.
- Students secured 7th rank SAE SUPRA in national event.
- Students won best project awards.

#### 6. Problem Encountered and Resource Required:

Technological developments are wide and faster in growth. It was difficult to provide training on all advanced trends in technology.

File Description	Document
Any additional information	<a href="#">View Document</a>

### 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:

**Kamaltai Ulhas Dhole Patil Scholarship for financially weaker and deprived students:**

##### Requirements and transparency:

- Credible leadership, charity and procedural integrity.
- An effective financial strategy to provide funding incentives, rewards and opportunities for investments in distinctiveness and excellence.

##### Motivation and Background:

Institutional distinctiveness refers to unique attributes, distinctive identity, value based education with continuous nurturing and sustenance in academic excellence where students perceive and compete with confidence. The DPCoE is a unique institute that values the employees and students as one family.

##### Scholarship:

The DPCoE established a charitable scheme viz. “Kamaltai Ulhas Dhole Patil Scholarship” for financially weaker and deprived students since 2012.

**Objectives:**

DPCoE intends to empower students by supporting academically outstanding and financially weaker sections through scholarship to pursue their higher education. Hence, meritorious students with low income are provided with financial assistance to meet their day-to-day expenses during their studies.

**Scope:**

The scholarships are awarded to Engineering admitted students of DPCoE on the basis of HSC results, aptitude test and personal interviews.

**Eligibility:**

Total number of scholarships to be awarded in a year is decided by the management. The students should be passed in HSC from Maharashtra State Board/ CBSE/ ICSE in the age group of 18-25 years.

**Call for applications:**

Applications are invited from eligible aspirants to avail benefit of the scheme, have schedules for receiving application with required attachments, screening of application forms, aptitude test, declaration of result, verification of documents and personal interview. The received applications are processed and shortlisted for aptitude test.

**Aptitude test:**

The admission committee with the assistance of First Year Engineering department conducts MCQ type aptitude test to students on H.S.C. syllabus with core subjects Physics, Chemistry and Mathematics, 20 questions each with a total of 60 questions, duration of 75 minutes. Key answers are supplied to the students soon after the conclusion of test. The results are displayed after four hours of conclusion of the test. The results of aptitude test are made transparent such that the appeared students are permitted to check their answer books.

**Selection procedure:**

The shortlisted successful candidates are screened by personal interview and their candidatures are recommended for sanctioning of scholarship to the Governing council.

**Rate of scholarships:**

The students are exempted from tuition fee payment on floating percentage basis.

**Duration of scholarship and renewal:**

The scholarship thus sanctioned is valid for one year from commencement of academic year. The renewal of the scheme is subjected to performance in SPPU examinations and their involvement in co-curricular

and extracurricular activities.

<b>Year</b>	<b>Number of students benefited under “Kamaltai Ulhas Dhole Patil Scholarship” scheme</b>
2013-14	16
2014-15	234
2015-16	155
2016-17	96
2017-18	149
<b>Total</b>	<b>650</b>

**Outcome:**

There are 650 students benefited under the scholarship scheme so far. By means of the scheme, DPCoE is endowed with opportunities for efficient yeoman serve. The scheme echoed the rich heritage and culture of DPCoE among local community. Consequently, admissions of students to first and direct second year are increased subsequently and DPCoE has replenished as premier educational institute in Pune.

## 5. CONCLUSION

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### **Additional Information :**

Dhole Patil College of Engineering,Pune imparts quality education with innovative pedagogy in synergy with industrial inputs to nurture all Engineering graduates with the ambition to reach the goal with distinctive methodology “**Dnyanam Savidnyanam**”. The Curricular aspect is considered to be the core assignment in Teaching-Learning process of engineering education. The distinctive ‘**Guru-Shishya**’ methodology, we have willingly owned, nurtures students in a way to create in them an ambition for excellence, We call it “ **Dnyanam Savidnyanam**”.

### **Concluding Remarks :**

Dhole Patil College of Engineering, Pune strives hard to impart quality technical education among the students with innovative pedagogy in synergy. In this regards, DPCoE has also signed MoU’s with the College of Engineering, Pune (CoEP) and various other agencies like CAD Centre etc. State-of-the-art Centre of Excellence and Laboratories are established to cater the requirements of industrial/software scenario with the aim of fulfilling the dreams of Students and Nation at large.

DPCoE has designed mechanism carefully to satisfy all their stakeholders to maximum extent and follows the Indian traditional values. The institute has tagline "YOU DREAM, WE EDUCATE" and all efforts are concentrated to fulfil the same.

## 6.ANNEXURE

### 1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																				
2.1.3	<p>Average percentage of seats filled against seats reserved for various categories as per applicable reservation policy during the last five years</p> <p>2.1.3.1. Number of actual students admitted from the reserved categories 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>240</td> <td>155</td> <td>216</td> <td>311</td> <td>233</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>240</td> <td>189</td> <td>216</td> <td>300</td> <td>233</td> </tr> </tbody> </table> <p>Remark : As per supporting document provide by HEI for year 2014-15 and 2016-17.</p>	2017-18	2016-17	2015-16	2014-15	2013-14	240	155	216	311	233	2017-18	2016-17	2015-16	2014-15	2013-14	240	189	216	300	233
2017-18	2016-17	2015-16	2014-15	2013-14																	
240	155	216	311	233																	
2017-18	2016-17	2015-16	2014-15	2013-14																	
240	189	216	300	233																	
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>13</td> <td>6</td> <td>7</td> <td>3</td> <td>2</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>13</td> <td>6</td> <td>7</td> <td>3</td> <td>2</td> </tr> </tbody> </table>	2017-18	2016-17	2015-16	2014-15	2013-14	13	6	7	3	2	2017-18	2016-17	2015-16	2014-15	2013-14	13	6	7	3	2
2017-18	2016-17	2015-16	2014-15	2013-14																	
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13	6	7	3	2																	
5.1.1	<p>Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years</p> <p>5.1.1.1. Number of students benefited by scholarships and freeships provided by the Government 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>866</td> <td>736</td> <td>1066</td> <td>978</td> <td>931</td> </tr> </tbody> </table>	2017-18	2016-17	2015-16	2014-15	2013-14	866	736	1066	978	931										
2017-18	2016-17	2015-16	2014-15	2013-14																	
866	736	1066	978	931																	

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
862	733	1065	978	924

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

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

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
1324	733	341	1884	280

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
1324	733	341	1884	280

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

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

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
90	138	188	169	78

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
90	134	188	169	78

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

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

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
44	124	26	45	36

Answer After DVV Verification :

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

44	124	26	46	38
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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
17	13	08	02	03

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
17	13	08	02	03

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

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)

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
6.44033	4.95856	4.05022	7.21164	3.25955

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
6.44033	4.95856	4.05022	7.21164	3.25955

## 2.Extended Profile Deviations

ID	Extended Questions																				
1.3	<p>Number of outgoing / final year students 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>416</td> <td>540</td> <td>650</td> <td>452</td> <td>413</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>444</td> <td>536</td> <td>638</td> <td>431</td> <td>390</td> </tr> </tbody> </table>	2017-18	2016-17	2015-16	2014-15	2013-14	416	540	650	452	413	2017-18	2016-17	2015-16	2014-15	2013-14	444	536	638	431	390
2017-18	2016-17	2015-16	2014-15	2013-14																	
416	540	650	452	413																	
2017-18	2016-17	2015-16	2014-15	2013-14																	
444	536	638	431	390																	



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

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
486.97	344.40	378.52	495.13	376.61

Answer After DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
449.59	344.40	378.52	495.13	376.61