



SELF STUDY REPORT

FOR

2nd CYCLE OF ACCREDITATION

**PUNE DISTRICT EDUCATION ASSOCIATION'S
COLLEGE OF ENGINEERING, MANJARI(BK), PUNE**

VILLAGE - MANJARI (BK), PUNE - 412307

412307

www.pdeacoem.org

SSR SUBMITTED DATE: 30-09-2022

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

September 2022

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

PDEA's College of Engineering is established in 1998 and affiliated to Savitribai Phule Pune University. The institute is located at Manjari Bk. which is well connected to Hadapsar Industrial area, Pune. The College offers Bachelor of Engineering degree courses in Electronics & Telecom. Engineering, Computer Engineering, Mechanical Engineering, Information Technology, Instrumentation & Control Engineering and MBA post-graduation degree. The admission to the institution is through common entrance examination conducted by JEE/DTE Government of Maharashtra.

In order to achieve the general objective in accelerating the institute from emergent stage to a hub of brilliance with international acceptance, the institution has given emphasis for the following objectives.

- 1] Improve Employability and Learning Outcomes of Students.
- 2] Enhance Industry-Institute and Society-Institute Interactions
- 3] Augment R&D and Consultancy Services.
- 4] Empower and Motivate Employees for Improved Performance.
- 5] Expand Teaching-Learning Facilities.
- 6] Implement Institutional Reforms.

The achievement of objectives also involves schemes for ensuring equity and also societal intervention and support. Detailed action plan to achieve each of the objectives have been arrived at by the involvement of all staff members and supported by management of the institution. The objective plan will be implemented through the Institutional portfolio. Various committees (Academic, Procurement, Civil works, and Finance etc) have

been formed and each committee is headed by a nodal officer. The major deliverables of the proposal are increase in number of Post graduates courses, increase in high quality of graduates, employability 100% through campus placement, increase in industry-institute interaction, Increase in research projects, increase in academic output in the form of research publications, books and IPRs and improvement in international recognition of the institution which ultimately leads to improve the quality of Technical Education of the institution.

Vision

Providing nurturing ground for an individual's development to make effective contribution to the society in dynamic environment through academic excellence for professional competency.

Mission

To provide the state of the art educational facilities for training students for the career in engineering and technology. To organize quality improvement programs on advances in current technology for the benefit of core stakeholders of community. To provide leadership in curriculum design and development to strengthen industry-institute commune.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- NAAC Accredited with B+ grade
- Owned & Run by the Pune District Education Association (PDEA) having rich legacy since 1942.
- Visionary and Efficient Top level Management
- Pune is Growth center of the State huge scope of collaborative programmes with industry.
- PDEA's 62 years of presence in the field of Education, especially in rural areas. Currently the PDEA owns more than 60 Primary and secondary schools, 10 professional colleges and 12 higher Education colleges.
- Adequate Buildings
- Well-planned curriculum provided by parent university, SPPU
- Well-Planned Teaching Methodology & students evaluation
- Department wise students associations for enhancement of knowledge in latest technical areas.
- State Government supported scholarship schemes are available for students.
- Beautiful Lush Green Campus with latest infrastructure which is favorable for curricular, co- curricular and extra- curricular activities.
- Well equipped Learning Laboratories, Libraries and computer centers
- Round the clock Library availability
- Well planned Networking of entire college through LAN
- High Speed Internet Connection with LAN as well as Wi-Fi facilities to staff and students.
- Round the Clock Internet Facility of 70 MBPS for academic & administrative purposes.
- Brilliant Alumni placed at key positions in India as well as abroad.
- Full Back up Facility with Generators and UPS
- Automation of Admissions, Fee Collection, Accounting using customized ERP system.

- Well equipped & adequate Curricular, Co- Curricular & the Extra- Curricular activities.
- Over the year Training & Placement activities to ensure maximum employability of students.
- Maintain the Quality Teaching using Students Feedback plus the Self-Appraisal of all the Faculty members.
- Faculty Recruitment by appointment of Experts in Selection Committee.
- Faculties are encouraged to upgrade their skills by providing them financial assistance to attend the STTPs, Workshops & Seminars.
- Faculties are encouraged to upgrade their qualifications by providing them the Leave Facilities & increment incentives.
- The college has Memorandum of Understanding (MoU) with various organizations for knowledge enrichment, transfer and sharing of educational & industrial advancements.
- The Institute has established the Centre of Excellence
- Various Clubs to enhance participative learning like ROBO Club, Radio Club etc.
- The Institute has started utilizing the Non-Conventional Energy sources.

Institutional Weakness

- Sponsored research projects funding from industry as well as from Government Agencies are not sufficient.
- Insufficient funded consultancy, R & D projects and patents etc.
- To arrange specialized Training programs by the faculty.
- Scope for interdisciplinary projects.
- Need more activities of student/faculty professional bodies as well as student chapters.
- Unavailability of Incubation center.

Institutional Opportunity

- Collaborations with foreign universities.
- Development of Applied Lab in support with Industry.
- Enhance research activities through sponsored/funded consultancy and R & D projects.
- Opportunities in Pune city for tie-ups with established and start-up companies for enhancing the learning outcomes.
- To arrange more number of FDPs /STTPS/ National Level /International Level conferences.
- To arrange specialized Training programs by the faculty.
- Scope for interdisciplinary and sponsored projects.
- Scope for improvement of digital literacy.
- To establish Incubation Centre.

Institutional Challenge

- Improvement in Training and Placement activities
- Institute has to be ready with strategies to beat competition from other technical Institutions and Universities in the area.
- Develop the capability to cope up with advancement in technology
- To avoid the Frequent Job change of Ad-hoc Employees

- To produce more qualified and industry-ready technocrats.
- To provide Hostel facility to students inside the campus.
- To obtain SPPU permanent affiliation (UGC 12B) and NBA Accreditation for getting more funds for research activities/projects for earning the patents.
- Strengthen Industry-Institute Interaction.
- More placements in core companies.
- Encouraging students for competitive examinations and higher studies.
- Networking and strengthening relationship with stakeholders.
- More focus on Industrial training for faculty and students.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

PDEA's College of Engineering, Manjari Bk, Pune was established in the year 1998 which is affiliated to Savitribai Phule Pune University, Pune and implements the curriculum designed by the university. The curricula for the programs of engineering are in tune with the Vision and Mission of the Institution. In the process of curriculum designing of affiliated University, our faculty members are contributing at different levels such as BOS, Subject Chairman and Members. The University has been regularly updating the syllabus every three-four years. The institute offers a wide range of programs contributing to Science & Technology with the national goal of empowering people through education.

. The academic calendar of the institute is prepared well in advance which ensures completion of syllabus well in time, exams, internal evaluation and project work. Teaching plan is prepared and delivered using modern pedagogical tools to cater to the needs of the student community, additional contents to fill the gaps based on predefined POs and COs. The faculty participates in the workshops and faculty development programs organized by different bodies. The institute is not only focused on providing bookish knowledge but also to prepare student technically sound with practical knowledge. The institute organizes frequent workshops, seminars, guest lectures, and industrial visits for students.

The institute follows Choice Based Credit System in all its academic programs. The students are given wide choice in electives based on their aptitude, skill and aspiration. The curriculum imparts transferrable life skills through courses such as Human Values & Professional Ethics, Environmental Science and sustainability and Gender Equality, which is offered to all programs. The curriculum includes Seminars, Mini project, and Major project work to enhance the technical skills to reach Industry standards. The core subjects of the course provide technical knowledge by focusing on the core concepts important in the chosen program and the elective subject in advanced concepts.

Various value added courses, competitive examination coaching, soft skill development programs are conducted to ensure overall development of the students and enhance employability skills. The feedback is collected from various stakeholders such as students, faculty, alumni and employer.

Teaching-learning and Evaluation

The institution follows a transparent admission policy with the admission guidelines given by the Director of Technical Education (DTE). Students Enrollment is done as per the applicable policies by the Government of

Maharashtra/GOI.

The institution has a team of dedicated, well qualified and experienced faculty, some of them with doctoral degrees.

Institute faculties are shifting their focus over last few years to the student centric learning process using ICT tools. Instead of conventional teaching-learning process, the institute provides a platform to students to explore independently as well as in a group to learn and to get an experience through self-study like assignments, case studies, mini projects and lab assignments etc. Participative and collaborative learning and problem solving methods are employed for enhancing the learning experience.

The Institution follows the evaluation procedure prescribed by the affiliating University. Student performance is evaluated through continuous assessment and end semester examinations. The process is transparent and robust and ensures effective evaluation.

Each program includes course objectives and course outcomes, which are mapped with the program outcomes. The attainment of each CO through theory assignments, lab assignments and activities to be performed by students. Assignment on each unit are provided as per COs mentioned in the syllabus and according to Bloom's Taxonomy level. Mock In-sem and End-sem examination questions are prepared as per university syllabus to meet COs and POs.

The above method of teaching learning process is adopted in the institute which helps student to achieve better results in curricular and co curricular activities.

Research, Innovations and Extension

The college encourages its teachers to submit research proposals, and conduct research for which a research committee has been formed to facilitate the research and extension activities. The committee organizes workshops and sensitization programs to create research spirit among teachers and students. Some faculty members at individual level have got research projects sanctioned by various agencies.

The Institute encourages faculty and students to pursue research in their domain of interest. The faculties and students are encouraged to attend seminars, conferences, workshops and present papers in national and International conferences and journals. The college organizes workshops, guest lectures, seminars, departmental paper presentations and conferences periodically on Research Methodology, Entrepreneurship Development and IPR. In the last five years, the faculties have published many research papers and articles in national /international peer reviewed, indexed research journals. The patents are filed by the faculty members. The Institute has established a Centre of Excellence undertake various Research activities and consultancy projects.

The institution is also actively involved in extension activities to help society by its services. The college has established the NSS unit. Students and faculties actively participate in extension activities, outreach programs such as blood donation camps, Electoral Awareness programs, national pulse polio programs, cancer, HIV & AIDs awareness programs, Anti-tobacco, Diabetes, Tuberculosis prevention, medical camps and health clinics. Environmental awareness programs such as No-plastic Day, Swatchcha Bharat Diwas on Gandhi Jayanti.

The Institute along with its faculties & students, has received a number of Awards, Appreciation Letter for

various extension and technical activities. The Institute has undertaken various MoUs, collaborations/linkages for Internship, Field trip, On-the- job training, Faculty/ Student exchange to promote research and academic activities.

Infrastructure and Learning Resources

The infrastructure of a college plays a vital role in the development of the college and focuses on the enhancement of the labs, class rooms and other basic facilities. We keep on upgrading the infrastructure yearly so that we can provide our students with advanced laboratories through which they can get hands on experience with the latest technologies.

Sufficient number of laboratories are available for students in the campus with latest configuration systems and software in departments. Additional resources such as printers, wireless internet connectivity, Servers, Switches, Routers, Battery Backup, Sophos Firewall, Interactive Board, Projector etc are available in college. The internet bandwidth of 70 Mbps is available by two service providers BSNL(40 Mbps) and Reliance Jio(30 Mbps). All departments are sufficiently equipped with advanced facilities. Interactive teaching Learning process is conducted through advanced ICT tools. CCTV has been installed in all college campus.

There is a separate examination room with internet facility, servers, reprography facility.

The Institute has indoor & outdoor sports facility. The gymnasium in the college is equipped with body building and fitness machines like multistation, free weight, bench etc. The yoga centre has been developed for meditation and yoga sessions has been conducted for all students and staff.

The students are encouraged to participate in co-curricular and extra-curricular activities at various levels.

College campus has the provision of a spacious and hygienic canteen that caters the taste of the entire students.

The Central library of college is having sufficient number of books, journals, with the facility of digital library with various e-journals subscriptions. Delnet Database as well as other open access resources are also available in Library. The library is automated on ERP system.

The Institute has facilities like Principal Cabin, Conference Hall, Office section, Training and Placement office, Playground, Store Room, Reading Hall, Drinking Water Facility, girls common room, boys common room, Parking area, Sanitary vending Machine, Ramp and washroom for Disabled persons, Workshop Department, Language Lab, IQAC Cell, IIPC Cell, Cultural Room, Solar System, NSS Room, health centre, Exam Control Room, Seminar hall, auditorium, etc.

Student Support and Progression

The institution publishes an informative brochure annually. The brochure includes Vision, Mission, Quality Policy of the institute, details of programs with fee structure, Salient features of the college, Information of Teaching faculty of all departments along with the labs, results, training and placement activities, hostel facilities, rules of Discipline and Ragging, various Co-curricular and extra-curricular activities conducted,

eligibility criteria for admission process, government Scholarships and concessions.

Financial assistance in the form of concession is given every year to students by the management through the institute. Institute has an "Earn and Learn scheme" in association with SPPU. Scholarships are given to the SC/ST, and OBC students as per guidelines of the Social Welfare Office, Pune. Economically backward class students are given scholarships and instalments for fee payment.

The Training and Placement Cell conducts guest lectures, group discussions, and mock Interviews, guidance on Competitive Examinations; which are organized by industry experts and qualified personnel from various state and central government departments. Topics covered in Skill development programs are Self-motivation, career counselling, learning a positive attitude, Time Management, Public Manners and etiquette, Interview Skill, Presentation skills, Group Discussions and Mock Interviews.

Institute plans extracurricular and co-curricular activities and encourages students to participate. In addition, the institute organizes annual events like Sports Days and Robo-Soccer. A student council is constituted which organizes and promotes these activities. Students are also encouraged to participate in various quiz competitions, debates, discussions, cultural competitions, etc. COEM has a cultural event named **CONFLUENCE** which includes the activities such as dance competitions, fashion shows, street plays, drama, etc. The Institute has grabbed awards for extracurricular activities at various levels.

As per guidelines received from SPPU college has constituted '**Vishakha**' women's grievance cell, the Ombudsman committee and redressal mechanism. These committees regularly conduct meetings with various agendas; also organize special awareness programs for the women in institute. No cases of sexual harassment are yet reported. As per UGC /AICTE Regulation 2009 provision; college have set an Anti-Ragging Committee. The Constitution of the Committee and the progress reports are been sent to the University half yearly. As per Anti-Ragging Act a big board is displayed in main premises. As a measure of Anti-Ragging norms of AICTE, the College collects a notarized affidavit from the student & their parents at the time of admission. Till date, no Ragging cases have been reported in the College campus.

The Institute has established a registered Alumni Association that contributes significantly to the development of the institution for placement, latest industry trends and other support services.

Governance, Leadership and Management

The governance of P.D.E.A's College of Engineering is planned by keeping in view of the mentioned vision and mission. The institution strives to achieve its vision by working through its mission with key factors such as good governance, quality academic processes and infrastructure.

The institution has an Academic Council, chaired by the Principal and heads of all the departments. It provides expert advice in formulating academic policies, regulations, goals and objectives to promote career opportunities for the students.

The management is highly committed and dedicated to the service of catering to the contemporary requirements to impart quality education. The management provides the required infrastructure for the proper functioning of the institution. The institution follows decentralization and participative management which promotes quality in education system.

The Institution has designed the strategic / perspective plan and it is developed, driven, deployed and reviewed through IQAC. The IQAC takes into account the vision and mission and several other aspects of the institution and formulates processes to ensure quality outcomes.

The prominent resources that the institution currently has well qualified and experienced faculty members, Central Library, good infrastructure facilities with well-equipped laboratories and computer center.

The members of Management take keen interest in the development of the Institute. Their association with the Institute through CDC, IQAC, Purchase Committee, Academic and other committees has always proved to be supportive.

The acts and rules are adopted as guidelines for procedures, recruitment, promotional policies, code of conduct issued from time to time by the regulatory bodies like AICTE, DTE Maharashtra state, Savitribai Phule Pune University from inception.

The institution has effective welfare measures for its employees and it provides a caring and supportive working environment for them.

A performance appraisal system for all staff members is set-up, well integrated with institutional functioning.

The institute has a well-defined mechanism for internal and external audit. The internal financial audit of the institution is an ongoing continuous process.

Institute maintains and follows a well-defined process for the mobilization of funds and resources through various committees. Institute has designed well framed policy / Annual budget for the fund and & resource utilization.

At the commencement of financial year, institutional budget is prepared which includes recurring expenses such as salary, electricity and internet charges, stationary along with planned expenses such as lab equipment purchases, furniture etc.

The IQAC has very well defined the standard process to be carried out across the Institute for continuous improvements in the goals set by the IQAC. Institute IQAC plays an important role in reviewing the teaching learning process and focuses on effective implementation of Outcome-Based Education (OBE) for all the programs.

The College provides financial support to Teachers for attending the FDPs, Workshops & Seminars as per the recommendations of IQAC.

Institutional Values and Best Practices

Executive Summary Criteria 7:

Institutional Values and Best Practices

This criterion is to assess factors like how Institute sensitize students and other stakeholders towards Gender Equity, efforts for practicing Constitutional Values and approach towards a greener, eco-friendly campus. All practices that are conducted ensures towards a common, better future. Etc.

Institute works as per rules, regulations and procedures and is accountable to students as well as all its stakeholders. Institute stands by equity in gender, cultural and social inclusivity in all of its functioning. The Institute is responsive to the emerging challenges and issues relevant to changing local, national and global needs and same has been addressed through co curricular, research, extracurricular and extension activities like Cultural Activity 'CONFLUENCE', Annual Sports Day, etc.

The Institute has taken initiative in using the non-conventional energy sources such as Solar Energy, Wind Energy etc. The Institute has proper mechanism for Water conservation, Green campus initiatives, Disabled-friendly facilities and barrier free environment.

The institutional environment and energy initiatives are confirmed through carrying out the certified audits such as Green audit / Environment audit, Energy audit, Clean and green campus initiatives, Beyond the campus environmental promotion activities.

Extension activities are carried out by NSS Unit to create social awareness like River Cleaning, Blood Donation Activity, Swachhata Abhiyan, Adult Literacy Program, Adapting Village for a week etc. The plastic and other non-recyclable, non-biodegradable materials are strictly banned on the campus of this Institute. Institute inculcates human values and professional ethics through well trained and talented minds over campus. Various activities are planned and organized like celebration of International Yoga day, Republic Day, Shivjayanti, Women's Day, National Integration Day, Ganesh Festival and Vachan Prerana Diwas, etc.

Best and Distinctive Practices which were carried out in the college during last five years are: RoboClub, ED Center, Art Circle, Serendipity, NSS, Teacher Guardian Scheme.

As a Distinctive Practice the Institute is providing training of robotics and other advances technology to rural school students through our trained students.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	PUNE DISTRICT EDUCATION ASSOCIATION'S COLLEGE OF ENGINEERING, MANJARI(BK), PUNE
Address	Village - Manjari (BK), Pune - 412307
City	Pune
State	Maharashtra
Pin	412307
Website	www.pdeacoem.org

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Ritesh Vamanrao Patil	020-8888776206	9850660498	020-26996275	coem@pdeapune.org
IQAC / CIQA coordinator	Deepak Onkar Patil	020-26992200	7588735349	020-26992200	dipak_25@yahoo.co.in

Status of the Institution	
Institution Status	Private and Self Financing

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

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details

State	University name	Document
Maharashtra	Savitribai Phule Pune University	View Document

Details of UGC recognition

Under Section	Date	View Document
2f of UGC		
12B of UGC		

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

Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	03-07-2022	12	Closure of BE Instrumentation Control Engineering course closed

Recognitions

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

Location and Area of Campus

Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	Village - Manjari (BK), Pune - 412307	Semi-urban	5	16300

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BE,Mechanical Engineering	48	HSC	English	60	4
UG	BE,Computer Engineering	48	HSC	English	120	112
UG	BE,Electronics Engineering	48	HSC	English	30	19
UG	BE,Instrumentation And Control Engineering	48	HSC	English	30	0
UG	BE,Information Technology	48	HSC	English	60	57
PG	MBA,Master Of Business Administration	24	Graduate	English	120	115

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	6				15				61			
Recruited	0	0	0	0	3	1	0	4	32	29	0	61
Yet to Recruit	6				11				0			
Sanctioned by the Management/Society or Other Authorized Bodies	6				15				61			
Recruited	0	0	0	0	3	1	0	4	32	29	0	61
Yet to Recruit	6				11				0			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				43
Recruited	37	6	0	43
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				43
Recruited	37	6	0	43
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	20	1	0	21
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				21
Recruited	20	1	0	21
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	3	0	0	1	2	0	6
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	21	13	0	34
UG	0	0	0	0	0	0	0	0	0	0

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	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	11	14	0	25
UG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	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
UG	0	0	0	0	0	0	0	0	0	0

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

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

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	671	3	0	0	674
	Female	284	0	0	0	284
	Others	0	0	0	0	0
PG	Male	150	0	0	0	150
	Female	50	0	0	0	50
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years

Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	13	8	14	18
	Female	6	1	7	7
	Others	0	0	0	0
ST	Male	3	0	1	0
	Female	0	0	0	0
	Others	0	0	0	0
OBC	Male	16	22	16	31
	Female	13	6	7	19
	Others	0	0	0	0
General	Male	47	57	30	60
	Female	18	28	14	16
	Others	0	0	0	0
Others	Male	16	8	4	21
	Female	2	8	0	9
	Others	0	0	0	0
Total		134	138	93	181

Institutional preparedness for NEP

<p>1. Multidisciplinary/interdisciplinary:</p>	<p>The Institute is affiliated to Savitribai Phule Pune University (SPPU) Pune since 1998. The University offers Choice Based Credit system (CBCS) in New Syllabus 2019 pattern for all classes & branches of Engineering and for MBA. The students can take audit courses, Honours subjects like Data Science, Virtual Reality, Artificial Intelligence and Machine Learning as per their choice. This gives interdisciplinary exposure to the students. Some audit courses offered to the students includes Foreign Language, Advanced Communication Skills, Environmental studies and Professional Ethics.</p>
<p>2. Academic bank of credits (ABC):</p>	<p>Academic Bank of Credits provides students to open individual Academic Bank Accounts. It will give students given multiple entries and exit options from institute or universities. At present the Institute does not offers the credit transfer to students. The Institute is eager to register for Academic Bank of Credit and awaiting the guidelines from the affiliating University.</p>
<p>3. Skill development:</p>	<p>The Institute keeps the track with changing technology. Senior faculty members and industry experts, after extensive discussions, identify the domains for skill development of faculty and students. To keep track with Industry 4.0 & Industry 5.0 revolution, the Institute developed the Robo-Club. The Robo-club gives training to students and develops the technical skills. Under the Centre of Excellence the Institute conducted the certificate courses of requirements of Industry 5.0 on domain IoT, AI, ML and Block-chain. The Institute uses problem solving methodology where students are motivated to think and find solution of learned technology under different programs. The Institute is taking efforts on the soft skill development by arranging different programs.</p>
<p>4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):</p>	<p>The Institute has been developing the processes for integration of Indian Knowledge System. The Institute promotes the parental learning. The stake holders including parents, employers and alumni are invited to share their professional and social experiences. The Institute implements mentor teaching where engineering students teach school students on the current technology under the Robo-Club activities. The Institute encourages the students to visit rural areas for understanding the real-life</p>

	<p>problem and to provide solution for it under NSS scheme. Some projects undertaken by students are tree plantation, plastic free campus, cleanliness drive, Electoral awareness etc. The Institute conducts annual one-week NSS Camp in rural areas. During the camp students stay in village. It gives opportunity to students and faculty to know about local culture and society. The students visit the schools in village and deliver the sessions for school children on emerging technology. Institute conducts the Literacy drive in rural area during the NSS camp.</p>
<p>5. Focus on Outcome based education (OBE):</p>	<p>The Institute follows the outcome based education system. The institute is affiliated to SPPU Pune so as per syllabus the institute follows the structure of COs and POs. The rubrics are developed to measure the outcomes. The faculty is regularly deputed for outcome-based education awareness programs. At the end of academic year, the Institute computes the achievement of COs, POs and PSOs. It takes the suggestion from stake holders and IQAC for the improvement. The institute is NAAC accredited in 2017-18 with B+ grade.</p>
<p>6. Distance education/online education:</p>	<p>The Institute implements online as well Offline teaching learning. It organises the resource sessions of IITs, NITs, other reputed academic Institute experts, industry persons in on-line mode. In last two years online sessions were organised on some domain includes Cloud computing, Machine Learning, Robotics etc. The Moodle and Google classrooms are available for students where all study material is available. The Institute faculty also delivers the sessions in online mode. The Institute conduct online workshops, conferences and seminars.</p>

Extended Profile

1 Students

1.1

Number of students year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
1158	839	613	672	675

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2 Teachers

2.1

Number of teaching staff / full time teachers during the last five years (Without repeat count):

Response: 147

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2.2

Number of teaching staff / full time teachers year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
62	47	50	58	74

3 Institution

3.1

Expenditure excluding salary component year wise during the last five years (INR in lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
75.46	56.64	99.81	110.91	122.44

NAAC

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1 The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment

Response:

PDEA's College of Engineering, Manjari, bk, Pune is affiliated with Savitribai Phule Pune University, Pune, and follows the curriculum prescribed by the University. The vision and mission of the institution is achieved through the curriculum provided by the university to meet the local, national, regional and global development needs of the society.

The entire curriculum is aligned to meet the objectives of "Industry 4.0". The curriculum to include and reinforce courses such as digital integration related courses such as Robotics, Industrial Automation, Artificial Intelligence (AI), Machine Learning (ML), Augmented Reality (AR), Internet of Things (IOT).

At the beginning of each term, the academic committee prepares the academic calendar of the institute aligned with the university's academic calendar in discussion with the Principal and HODs. All the academic activities strictly adhere to the calendar for the complete term. HOD conducts department meeting with all the teaching and technical staff members at the beginning of every semester to discuss effective curriculum delivery. Course allotment to teachers is done at least one month prior to the start of the term. Time table is prepared before the start of the academic term and is displayed on the college notice board and website. List of experiments are prepared and displayed in all the laboratories as per schedule mentioned in the calendar. Continuous Internal assessment comprising mock test schedule, assignment schedules, SPPU Exams tentative schedules are planned in the academic calendar itself; which helps the students to plan their activities. Schedule of practical/oral examinations are marked in the calendar and all examinations are held as per this schedule. Meeting with parents is planned once in the semester where they are briefed about the progress of the student. Mentors maintain interaction with parents regular interval.

The subject teacher prepares the course file which includes vision, mission of the institute/department, PEOs, POs, PSOs, COs, syllabus, individual/class time table teaching plan, assignments, tutorial/practical plan, Question bank as per Bloom's Taxonomy, mappings and attainments of COs & POs.

To ensure effective distribution of the curriculum through lectures and practical sessions, a weekly report of the lectures conducted are kept and forwarded to the concerned academic monitoring committee.

Effectiveness of course delivery makes sure of the performance of students in Internal Assessment Examinations besides a comprehensive model examination. After each internal assessment examination, a periodic meeting is conducted in the Department with the faculty members to assess the level of understanding of the students on the topics covered.

Students in various programs learn concepts of professional core subjects. The project work/ internship taken up in the prefinal/ final year enable the students to consolidate their knowledge to write and present

technical reports and learn the benefits of teamwork. Students are encouraged to carry out project work as interns in industry.

The success of curriculum design and development can be gauged by enhanced employability, increased placements and students securing admissions into higher education institutions.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

1.2 Academic Flexibility

1.2.1 Number of Add on /Certificate/Value added programs offered during the last five years

Response: 20

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.2.2 Percentage of students enrolled in Certificate/ Add-on/Value added programs as against the total number of students during the last five years

Response: 7.83

1.2.2.1 Number of students enrolled in subject related Certificate/ Add-on/Value added programs year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
143	15	109	28	15

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.3 Curriculum Enrichment

1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human

Values, Environment and Sustainability into the Curriculum

Response:

The institute has been working for the overall development of the students. Students are molded as responsible technophile by creating awareness and addressing the societal and generic needs. Along with a standardized lesson plan, the curriculum is enriched by including the courses like Environmental Studies, Energy Sciences, etc. This enriches the knowledge of the student and focus in the area of the self-actualization and belongingness to the society.

Human Values and Professional Ethics:

To implant Moral, Social and Ethical values, the institute has introduced courses on Human Values and Professional Ethics. It helps students to gain a worldview of the self, society and profession. It emphasizes on holistic understanding of ethical human conduct, trustful and mutually satisfying human acquire knowledge of their principles and utilization.

National Service Scheme:

The institute has a vibrant NSS wing which encourages student participation in programmes like Blood Donation, Swachh Bharat Abhiyan and bringing awareness on social issues, conservation of water and electricity. Workshops/lectures are arranged on these issues in nearby villages.

Gender sensitization:

The institute provides co-education and equal opportunities to girls in all student activities. Women's Day is celebrated every year with active student's participation. Special talks are arranged to encourage women to explore opportunities in science and technology. An exclusive committee consisting of women faculty and girl students is also functioning related to gender equality issues.

Open Elective Courses under CBCS:

Course on 'Non-conventional Energy Sources' is offered to explain the generation of electricity from various non-conventional sources of energy such as solar, wind, ocean and geothermal energies and acquire knowledge of their principles and utilization.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

1.3.2 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)

Response: 86.01

1.3.2.1 Number of students undertaking project work/field work / internships

Response: 996

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.4 Feedback System

1.4.1 Institution obtains feedback on the academic performance and ambience of the institution from various stakeholders, such as Students, Teachers, Employers, Alumni etc. and action taken report on the feedback is made available on institutional website (Yes or No)

Response: Yes

File Description	Document
Upload supporting document	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Enrolment percentage

Response: 56.32

2.1.1.1 Number of students admitted year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
344	217	122	153	144

2.1.1.2 Number of sanctioned seats year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
420	420	300	300	300

File Description

Document

Upload supporting document

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

2.1.2 Percentage of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy during the last five years (Exclusive of supernumerary seats)

Response: 53.79

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

2021-22	2020-21	2019-20	2018-19	2017-18
175	104	66	54	69

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

2021-22	2020-21	2019-20	2018-19	2017-18
210	210	150	150	150

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2.2 Student Teacher Ratio

2.2.1 Student – Full time Teacher Ratio (Data for the latest completed academic year)

Response: 18.68

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 using ICT tools

Response:

Institute faculties are shifting their focus over last few years to the student centric learning process using ICT tools. Instead of conventional teaching-learning process, the institute provides a platform to students to explore independently as well as in a group to learn and to get an experience through self-study like assignments, case studies, mini projects and lab assignments etc.

The following teaching and learning methodologies are used to motivate students to learn for higher retention of knowledge through better understanding, for increased depth and developing positive attitude towards subjects taught:

1. Experimental Learning :

1. Self- study :All the concern subject teachers gives theory assignment to the students after completion of each unit. Lab assignments are also provided to understand the practical knowledge.

2. Project Based Learning :

This is categories in 1. Mini Project 2. Project Based Learning (PBL) which is part of each curriculum for each programme.

3 Field based experiential learning:

We provide industrial visits and Internship at various industries to motivate student to select their correct domain and area of interest. Sponsored project and add on courses are conducted to

enhance the advanced industry knowledge.

2.Participative Learning :

Participative Learning by forming student teams working jointly to solve a problem, complete a task/project, participating in debates and design a model as well as participation in technical competitions. For Real time exposure, students are encouraged to participate at State, National and International Level project competition, various technical competitions, paper publications in conferences and journals.

3.Problem solving methodologies :

All subject teachers from each programme provides miscellaneous problem so that student can develop methodology to solve such problems.

The institute also provides a platform to students to explore independently as well as in a group to learn through participative learning under the students association like CESA, MESA, ITSA, ETSA etc.

Some participative programs/activities which are organized by institute:

- 1.FUTURIZM : National Level Paper presentation
2. YANTROSTAV : National Level Robotics Competition through ROBOCLUB
- 3.TANTRA : Model Making Competition
- 4.NEXUS : State Level Project Competition
- 5.SERENDIPITY : University Level Technical Competition
- 6.AGAZ : University Level Technical Competition.
- 7.PROJECT Competition.

The institute motivates students to take part in ROBO CLUB, RADIOCLUB, and ENVIRONMENTAL CLUB to enrich their co-curriculum activities.

File Description	Document
Provide Link for Additional information	View Document

2.4 Teacher Profile and Quality

2.4.1 Percentage of full-time teachers against sanctioned posts during the last five years

Response: 96.04

2.4.1.1 Number of Sanctioned posts / required positions for teaching staff/ full time teachers year

wise during the last five years:

2021-22	2020-21	2019-20	2018-19	2017-18
65	66	64	54	54

File Description	Document
Upload supporting document	View Document

2.4.2 Percentage of full time teachers with NET/SET/SLET/ Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)

Response: 3.09

2.4.2.1 Number of full time teachers with NET/SET/SLET/Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
4	2	0	0	3

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2.5 Evaluation Process and Reforms

2.5.1 Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient

Response:

The Institute is accountable to the stakeholders - students, faculty, parents and alumni. The evaluation processes are brought to the notice of the students and faculty through the following:

The evaluation parameters and methodology is finalized in the faculty meeting. Suggestions from the faculties are incorporated in finalizing the policies. The suggestions of alumina taken in alumni meeting are also considered while deciding the strategies. The policies are revised in every semester in general meeting. The Institute makes aware to the admitted students and parent about the evaluation process through the Induction Program conducted at start of college at the Institute level. The Institute notifies the students and parents regarding schedule and structure of internal and university evaluation.

The internal assessments are based on different parameters like ... (i) Attendance of student (ii) Internal examination performance (iii) Continuous assessment and(iv) Mock practical /oral examination. Students' performance is assessed by assessment / submission for practical and mock examination for Theory / practical subjects.

The final assessment including above mentioned parameters are communicated to the students.

The institution supports all the types of **redressal** of grievances related to assessment prescribed by the institute and university. Student can approach to the related authorities to address their grievances.

Following are the various levels to handle student's grievances:

Departmental Level: The continuous evaluation of students is carried out by faculty regarding theory assignments, labs assignments, and mock examinations. The marks are allotted based on defined strategies. The student will discuss their queries with faculty and departmental examination coordinator.

College Level: As per university directives, the institute has appointed a faculty member as College Examination Officer (CEO) to address student grievances. The Examination Committee is structured with the Principal as a Chairman assisted by CEO and faculty members from each department. The grievances during the conduction of examinations are considered and discussed with the concerned authorities and if necessary forwarded to the university examination section.

University level: The queries related to results, corrections in mark sheets, other certificates issued by university are handled by examination section after forwarding such queries through the college examination section. Students are allowed to apply for revaluation by paying necessary processing fee to the university if they are not satisfied with evaluation.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.6 Student Performance and Learning Outcomes

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of POs and COs are evaluated

Response:

Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed:

- On website.
- Prominent places in the department
- CO are displayed in theory assignment, course file of faculty.

Thus these CO are communicated to teachers and students.

- Program Outcomes (POs) describe what students are able to know and able to do by the time of their graduation. Program Outcomes are defined by the university and these are common for those programme. Program outcomes are mainly related to the skills, knowledge, and behavior that students acquire through the particular programme.
- Course Outcomes (COs) describe what students are able to do after successful completion of a course. Every course will have some course outcomes.
- Course Outcome statements are specific for a course.
- Course faculty will define Course Outcomes of a particular course using the latest Bloom's Taxonomy.
- The Course Outcomes are communicated to the students at the beginning of the semester by the respective subject teacher.
- Program Specific Outcomes (PSOs) describes what students can do after completion of a program. These statements are specific to a programme.
- The PEOs and PSOs are aligned with institute vision and mission statement.

The institute is affiliated to university so the curriculum is design by the university and is used to guide the process for defining PEOs. COs are included in the university syllabus for each subject. The attainments of COs are mandatory for theory and laboratory subject. Institute implemented evaluation of POs and COs attainment from A.Y. 2020-21.

- 1.The attainment of each CO through theory assignments, lab assignments and activities to be performed by students.
2. Assignment questions are provided as per COs mentioned in the syllabus on per unit according to BT level.
- 3.Mock Insem and End sem examination questions are prepared as per university syllabus to meet COs.
- 4.All questions of internal assessments are mapped with COs.

Final sheet of attainment is prepared with consideration of all above parameters. Student wise CO attainment calculated by considering threshold value. Threshold value set by subject teacher on the basis of previous subject attainment.

CO attainment calculation:

CO attainment = direct attainment 90% + indirect attainment 10 %

Direct attainment is calculated with the following parameters

- 1.Theory assignment
- 2.Continuous assessment
- 3.Mock Insem + Mock Endsem evaluation
- 4.University exam assessment

Threshold value for attainment is set by the course faculty. Two parameters are calculated

- 1.No.of students above Thershold
- 2.% Of students scoring >=Thershold

With above parameters direct attainment is calculated as per the formula:

Direct CO Attainment = $((0.3*IA)+(0.7*EA))$

Indirect attainment is calculated with feedback and result analysis of the previous semester result of course.

The overall PO attainment can be calculated by assigning appropriate weightages to the direct and indirect assessment methods.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.6.2 Pass percentage of Students during last five years

Response: 92.2

2.6.2.1 Number of final year students who passed the university examination year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
174	237	168	167	188

2.6.2.2 Number of final year students who appeared for the university examination year-wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
184	237	168	204	220

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response: 3.67

File Description	Document
Upload database of all students on roll	View Document

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1 Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

Response: 513000

3.1.1.1 Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
00	00	00	413000	100000

File Description

Document

Upload supporting document

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

Response:

An eco- system has been created in the Institution to promote innovation, transfer of knowledge and entrepreneurship. Entrepreneurship Development Cell (EDC) has been set up in the year 2015-16 for nurturing Entrepreneurship ideas of the students. As part of this initiative, various entrepreneurship activities are conducted every year.

Centre of Excellence:

The students participated in large number and showed enthusiasm towards entrepreneurship. The institute provided necessary facilities and financial support to carry out each of these projects. A Committee consisting of experts from diversified fields representing industry, research institutions and other allied areas are involved in short listing of innovative ideas for pursuing further. Faculty is encouraged to conduct and participate in research activities and make publications in the journals of repute for knowledge sharing purpose. The Institution has the practice of conducting various workshops and conferences periodically for creation and sharing of knowledge. The faculty has been encouraged to take up Intellectual Property rights as an initiative towards innovation and knowledge sharing. The faculty delivers guest lectures and expert lectures to other institutions as part of knowledge sharing.

Encouraging students to participate in AVISHKAR / Club Activities – The students of the Institute are encouraged for participation in International Professional Clubs (SAE, IEEE, IIC) which encourages the students to participate in National level competitions, conferences, technical events etc.

File Description	Document
Upload Additional information	View Document

3.2.2 Number of workshops/seminars/conferences including on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship conducted during the last five years

Response: 71

3.2.2.1 Total number of workshops/seminars/conferences including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
18	11	16	8	18

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.3 Research Publications and Awards

3.3.1 Number of research papers published per teacher in the Journals on UGC care list during the last five years

Response: 0.61

3.3.1.1 Number of research papers in the Journals notified on UGC CARE year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
27	17	32	03	11

File Description	Document
Upload supporting document	View Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

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

Response: 0.22

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

2021-22	2020-21	2019-20	2018-19	2017-18
12	8	1	00	12

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.4 Extension Activities

3.4.1 Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the last five years.

Response:

The institution has established NSS unit since 2009, which organizes various extension activities to address the various social issues and sensitizes our students towards them. Our institute is very insightful to the impact of various extension activities on its students, employees, as well as on the regional community and on the environment. The institute believes in pay-back what it has gained from the communities in which we live and work. The institute consider the impact of all extension activities on the local community and hence the various social and technical activities, events and programmes are very much reflecting our commitment to operate in a techno-social environment. The institute facilitates the student in various social and technical activities. Institute has conducted various social and technical activities for sensitising and motivating the students regarding social issues and their holistic development.

Social activities include Blood Donation Camp, Swachha Bharat Abhiyan, Cashless Economy Workshop, Green Campus, Tree Plantation, Traffic Rule Awareness Rally and Pledge, Road Safety Awareness Program NSS cell, Voter Awareness Camp under Electoral Literacy Club. Similarly, in order to enhance

the technical knowledge of students, institute provides and permits the students to participate in the various national and international technical events and competitions through, Robo-club, Radio-club, CESA, MESA, EESA, ITSA, INSA platforms. Students have made and distributed masks during pandemic as a social responsibility. Students also made posters to create health awareness among peoples. Activities like Earn and Learn scheme, skill development trainings are organized. Every Student association has a faculty in charge for smooth and effective working. In addition, number of events aiming towards Institute-neighbourhood network are organized. Students actively participate and organise various events through these chapters as per the departmental needs and requirements for overall development of students. Technical activity enhances the technical knowledge of student in the field of design, analysis, manufacturing and testing of different engineering systems. Through these activities student improves their qualities such as time management, project management, costing, marketing skills, event management, communication skill etc. Similarly, social activities enhance and create social awareness and responsibilities in the students. As a result of these involvement in technical activities, Institute ranked in various national and international competitions.

File Description	Document
Upload Additional information	View Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

3.4.2 Awards and recognitions received for extension activities from government / government recognised bodies

Response:

The Awards and recognitions for the Institute

<http://www.pdeacoem.org/publicgallery#>

- There are different courses under National Programme on Technology Enhanced Learning (NPTEL). The staff has got various appreciations for that courses
- The College staff has received the "Best Teacher Award" from Nehru youth Organization operational center Arundada Belhekar Yuva Rashtra Pune.
- Blood Donation Camps are organised every Year in the College. The College has received the "Appreciation Certificates" for the same.
- The Institute's NSS cell has received University Level Appreciation Certificate for participation & cleanliness drive carried out during the Palakhi Procession 2019-20.
- The Institute has received Appreciation Certificate from SPPU for Guinness World Record for "Har Ghar Tiranga" drive celebrated on 15th August 2022 on the occasion of 75th Independence Day. On the same occasion Institute has organized a Teachers & Students Rally Procession all over the Manjari Village.
- The Institute got "Certificate of Appreciation" by ARIIA (Atal Ranking of Institution on Innovation Achievement) Ranking in 2020.
- The Institute is appreciated by FUEL (Friends Union of Energizing Lives) for doing great efforts

for Conducting FUEL Aptitude Championship.

- The Student "Prasad Shelke " of mechanical engineering got fellowship of Merry-Curry under **Early Stage Researcher** for doctorate program

The Robo-Club of Institute awarded in various competitions are as follows:

- 1) First winning prize in Robo Soccer " Credenz 2k22" by PICT COE Pune
- 2) First winning prize in " Equilibrium 2022 " by MIT AE Alandi , Pune
- 3) First winning prize in Robo Soccer event " Spectrathefest" by Sardar patel COE, Andheri, Mumbai.
- 4) First winning prize in " JU-RHYTHM" in Robo-soccer and Second in Robo Race organized by JECRC University, Jaipur in may 2020
- 5) won 1st prize in international level RoboSoccer competition of event "Technoxian-World Robotics Championship 2022". For this event, 800 teams from various 47 countries like Iran, Malaisia, Irak, Bangladesh, and Nepal were participated. All India Council for Robotics & Automation in association with Ministry of Electronics & Information Technology, Government of India, New Delhi had arranged this event in Indira Gandhi, New Delhi.

File Description	Document
Upload Additional information	View Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

3.4.3 Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organised in collaboration with industry, community and NGOs) during the last five years

Response: 53

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

2021-22	2020-21	2019-20	2018-19	2017-18
10	6	18	17	2

File Description	Document
Upload supporting document	View Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.5 Collaboration

3.5.1 Number of MoUs, collaborations/linkages for Faculty exchange, Student exchange, Internship, Field trip, On-the- job training, research and other academic activities during the last five years:	
Response: 318	
File Description	Document
Upload supporting document	View Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 Availability of adequate infrastructure and physical facilities viz., classrooms, laboratories, ICT facilities, cultural activities, gymnasium, yoga centre etc. in the institution

Response:

PDEA's COEM has an adequate infrastructure with the land of 5 acres with sufficient facilities for curricular, co-curricular, and administrative activities. The campus can be called as an oxygen zone as it is surrounded by trees and plants. It has well-established playground, which is surrounded with walking track as well used for various activities. There is fully equipped and well maintained workshop which is the backbone of the real industrial environment. **It helps students in developing and enhancing relevant technical hand skills required in the various engineering industries and workshops.** COEM keeps on upgrading infrastructure according to the norms of AICTE, DTE and Savitribai Phule Pune University College is maintaining and

All Departments have the provision of adequate number of classrooms with at most being ICT enabled, Laboratories, HOD cabins, Seminar Hall, Departmental Library, Training and Placement Cell. The books in the Department library are used for the reference by departmental faculty as well as by students. For performing practical assignments in laboratories, which are equipped with advanced software and equipment are provided according to the syllabus structure norms. Instruction manuals of all laboratories are prepared and supplied to the students. They are given freehand to perform laboratory experiments, and carry out project works under the guidance of well qualified and skilled faculties.

ICT-There are seminar halls are provided with Wi-Fi, Smart Board, LCD projectors, and public address systems that are utilized for conducting guest lectures, conferences, FDPs, and STTPs. There is an Auditorium that is utilized for cultural events or extracurricular events at the college level. The campus has CCTV cameras for the surveillance purpose.

There is a separate examination control room and examination room with internet facility, servers, Xerox machines along with adequate stationary for the smooth conduction of internal and external examinations.

The Institute has both indoor & outdoor sports infrastructure i.e., Football, Cricket, Badminton, Table Tennis, basketball areas etc. The institute has Indoor games facilities i.e., Table Tennis, Badminton Court, chess, Carom etc. The gymnasium in the college is equipped with body building and fitness machines like multistation, free weight, bench etc.

YOGA CENTRE – There is a yoga centre/thought Lab which is used for conducting the meditation and yoga sessions time to time for providing the mental relief from stress to students as well as to faculties.

CULTURAL - For bringing out the hidden talent of the students and for the exposure of their interpersonal skills, team spirit and management, the students are encouraged to participate in cultural activities at college level and various levels. The students are encouraged to participate in Purushottam Karandak and Firodiya Karandak etc. The college facilitates the students to celebrate Teachers day, Engineers day, Ganpati Mahotsav etc.

With this college also encourages various workshops, Guest Lectures under student Association out which increases the Team Spirit among the students.

College infrastructure has facilities like Generator Backup, Health Care Center, IQAC Cell, Cultural Room, Language Lab, IIPC , Common Rooms for students, Ramp and wash-room on ground floor for Disabled students and staff, Store room and Reprography Facility etc.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.1.2 Percentage of expenditure, excluding salary for infrastructure augmentation during last five years (INR in Lakhs)

Response: 8.91

4.1.2.1 Expenditure for infrastructure augmentation, excluding salary during the last five years (INR in lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
4.36361	11.89536	1.22560	8.40789	15.54131

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

4.2 Library as a Learning Resource

4.2.1 Library is automated using Integrated Library Management System (ILMS), subscription to e-resources, amount spent on purchase of books, journals and per day usage of library

Response:

Library Management System:

The library is the knowledge resource centre of the college and is computerized through Integrated Library

Management System with the help of Tech Divinity Digital education system, ERP software version number techd-v 2018.8.11. The LMS has modules Viz. Library Category Master, Item Management, Subscription Management, Library Membership, Issue Item, Return Item ,News Paper entry etc. This software provides facility to create, view and print records of accession register, bill report, and membership reports etc. The software has facility to generate identity card for students and staff. Issue and return of books is done through Barcode system. The collection has knowledge books such as Dictionaries, Britannica Encyclopaedia, India Year book, Manorama Year book. 654 CDs on different subjects like e-books and e-journals are available for students and staff. The central library has a membership of Jaykar Library, Savitribai Phule Pune University, Pune.

Library portal: A library portal is designed on college website (www.pdeacoem.org) to act as a one stop solution for different services for user such as collection and facilities. Important links are provided on portal for SPPU-Syllabus, SPPU-Question papers, Shodhganga, Shodhsindhu, DELNET Databases (Union Catalogue of Books/Journals/Theses), Jaykar Library, National Library, Directory of Open Access Journals (DOAJ), Directory of Open Access Books (DOAB), National Digital Library.

User tracking system is made available for all users. The users are tracked using a barcode system. For this purpose, Identity cards with barcodes are provided to the students and staff. Daily, monthly and category wise analysis reports are generated in this system.

Delnet - Institute keeps on renewing the Delnet database membership annually. It provides the access of e-books ,e- journals, e-articles. This is beneficial for the staff and students in research work and it also awares with new technology.

Computer Facility:

In the Library adequate number of computers with internet facilities are available for accessing e-journals & other e-contents. The Computers are accessible in Library for OPAC for Reader, Circulation of Books, Library Administration Work, Network Resource Centre for using database.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection

Response:

The institute has given priority to upgrade the IT facilities. Institution has adequate IT infrastructure. The IT infrastructure and resources are updated and upgraded continuously as per the requirements and change in technology. On semester basis the requirements are collected from all department, if there are any

changes or some Add-ons in the syllabus structure then accordingly the purchasing of the computers, software or upgrading/installation on the system takes place. The entire Institute is Wi-Fi enabled and computer labs are connected through LAN with internet facilities.

In the last 5 years we have also made certain enhancements in the following:

Desktop – The institute has 470 computers with the following configuration DUAL CORE 512,2.4 GHz,160 GB HDD , CORE 2 DUO, 1GB,160 GB HDD. , CORE 2 DUO, 1GB,160 GB HDD , Core I3-3.3GHz, 2GB RAM, 500GB HDD, P-4, 2.40 GHz, 256 GB RAM, 40 GB HDD , P-4, 1 GB RAM, 80 GB HDD , Core I3,3.60GHz,8GB Ram,500GB HDD , HP G1,I5,,4th GEN,4GB RAM,500HDD

Server - There are servers with required configuration which full fill all types of requirement to the institute. The configuration of server is:

Dell Power Edge Dual Xeon E5-2670 2.60GHz8GB (2x4GB) DDR3 2 1TB HDD, 2 Power Supply and other one Dell Power Edge R710 Server 16 Gb Ram,1Tb.Dual power Supply.

Institute has laptops with adequate configuration.

Internet Connection - The institute has internet lease line bandwidth of 70 Mbps. BSNL provides 40 Mbps and Reliance jio provides 30 Mbps bandwidth.

I/O Devices: The institute has adequate number of printers as per the departmental requirements.

LCD Projectors: For Upgrading of IT as well as for enhanced and informative Teaching Learning Process LCD has been installed in the classroom and seminar halls.

CCTV – The CCTV cameras have been installed on each floor of the institute as well as outside the building for capturing who is entering and exiting the campus.

All the classrooms, laboratories, hostels and library of the institute is provided with internet and intranet facility. All rooms in the girls and boys hostels are provided with internet and Wi -Fi facility . All the servers are provided with power backup for uninterrupted service. The information security and network security are ensured through the firewall and to avoid risk in the information, the websites which promote abusing activities are blocked in the firewall.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.3.2 Student – Computer ratio (Data for the latest completed academic year)

Response: 2.52

4.3.2.1 Number of computers available for students usage during the latest completed academic

year:

Response: 460

File Description	Document
Upload supporting document	View Document

Other Upload Files	
1	View Document
2	View Document
3	View Document
4	View Document
5	View Document
6	View Document

4.4 Maintenance of Campus Infrastructure

4.4.1 Percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years (INR in Lakhs)

Response: 57.47

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

2021-22	2020-21	2019-20	2018-19	2017-18
36.58	20.87	67.12	71.55	71.25

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Percentage of students benefited by scholarships and freeships provided by the Government and Non-Government agencies during last five years

Response: 76.3

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

2021-22	2020-21	2019-20	2018-19	2017-18
890	630	515	468	516

File Description

Document

Upload supporting document

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Institutional data in the prescribed format

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5.1.2 Capacity building and skills enhancement initiatives taken by the institution include the following

1. Soft skills
2. Language and communication skills
3. Life skills (Yoga, physical fitness, health and hygiene)
4. ICT/computing skills

Response: A. All of the above

File Description

Document

Upload supporting document

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

5.1.3 Percentage of students benefitted by guidance for competitive examinations and career counseling offered by the Institution during the last five years

Response: 24.06

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

2021-22	2020-21	2019-20	2018-19	2017-18
321	235	124	142	130

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

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

1. Implementation of guidelines of statutory/regulatory bodies
2. Organisation wide awareness and undertakings on policies with zero tolerance
3. Mechanisms for submission of online/offline students' grievances
4. Timely redressal of the grievances through appropriate committees

Response: A. All of the above

File Description	Document
Upload supporting document	View Document

5.2 Student Progression

5.2.1 Percentage of placement of outgoing students and students progressing to higher education during the last five years

Response: 21.37

5.2.1.1 Number of outgoing students placed and / or progressed to higher education year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
41	70	29	16	12

5.2.1.2 Number of outgoing students year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
170	171	117	160	168

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.2.2 Percentage of students qualifying in state/national/ international level examinations during the last five years (eg: JAM/CLAT/GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil Services/State government examinations)

Response: 17.24

5.2.2.1 Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ Judicial Services/Public Prosecution services/All India Bar Exams/State government examinations) year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
0	2	5	1	2

5.2.2.2 Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government examinations) year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
7	10	15	14	12

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.3 Student Participation and Activities

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

Response: 32

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

2021-22	2020-21	2019-20	2018-19	2017-18
6	4	6	7	9

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.3.2 Average number of sports and cultural programs in which students of the Institution participated during last five years (organised by the institution/other institutions)

Response: 21.2

5.3.2.1 Number of sports and cultural programs in which students of the Institution participated year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
33	18	20	19	16

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.4 Alumni Engagement

5.4.1 There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

Response:

Contribution of Alumni Association to the Institution:

- To extend the help to the students of this college for placement and industrial training.
- To act as a bridge between college and the industries for interaction on new developments in industries for different disciplines of engineering.

- To assist the college students to promote R & D activities, testing and consultancy.
- To encourage the students from department by awarding prizes to meritorious students showing bright performance in the field of education, sports and cultural.
- To enrich the central library by donating old and new books in the field of engineering and technology.
- To organize programs on personality development, interview technique and leadership development, education in health science, yoga, literature, sports etc.
- Alumni Association helps to enhance core values of excellence, lifelong relationships, lifelong learning, inclusiveness and diversity, global citizenship.
- Support a strong relationship between the Alumni Association and current students.
- Recognize fellow alumni who are distinguished by their loyalty, professional achievement and community service. • Assist current students and alumni in career planning, placement and transitions;
- Encourage the students for qualification and diverse prospective.
- Generate invaluable word of mouth publicity of college among their social and professional networks.
- Alumni are great models for current students and offer practical support to students as they start their careers. • To extend every possible help to the college authorities for overall progress of the institution.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The governance and leadership is in accordance with vision and mission of the institution and it is visible in various institutional practices such as decentralization and participation in the institutional governance

Response:

The Pune District Education Association, Pune, Maharashtra was established in 1942. The society has initiated an institution by name “ P.D.E.A’s College of Engineering” in 1998 to provide quality technical education to students from both rural and urban areas.

Governance:

The governance of P.D.E.A’s College of Engineering is planned keeping in view of the mentioned vision and mission. The institution strives to achieve its vision by working through its mission with key factors such as good governance, quality academic processes, and infrastructure.

The institution has an Academic and administrative body which is chaired by the Principal, heads of all the departments and all other stakeholders. It provides expert advice in formulating academic policies, regulations, goals and objectives to promote career opportunities for the students.

Internal Quality Assurance Cell (IQAC) has been established as per the guidelines with a view to promote over all quality standards.

Perspective Plan: The perspective plan for the next five years includes continuing the status of accreditations, Centre of excellence, research activities, consultancy and placements.

Participation of the staff members : The faculties and other staff members are involved in various decision making bodies like College Development Committee, Governing council and various portfolios etc. of the institution.

The management is highly committed and dedicated to the service of catering to the contemporary requirements to impart quality education. The management gives freedom to the Principal to fulfill the vision and mission of the college. The management provides the required infrastructure for the proper functioning of the institution. The responsibilities of each faculty member are communicated through Principal and HODs in regular staff meetings. The Management, Principal and faculty of the college are committed towards strategic work, its implementation and maintain documentation, and extend further efforts to continue the effectiveness of the plans through a Quality Management System. Management is committed to ensure conformity and compliance with standards. The institution follows decentralization and participative management which promotes quality in education system.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

6.2 Strategy Development and Deployment

6.2.1 The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, deployment of institutional Strategic/ perspective/development plan etc

Response:

The institute has an efficient governance structure.

The members of Management take keen interest in the development of the Institute. Their association with the Institute through CDC, IQAC, Purchase Committee, Academic and other committees has always proved to be supportive. The day to day administration is seen by the Principal, and Heads of Departments.

Service rules, policies and procedures:

The acts and rules are adopted as guidelines for procedures, recruitment, promotional policies, code of conduct issued from time to time by the regulatory bodies like AICTE, DTE Maharashtra state, Savitribai Phule Pune University from inception. All other applicable state/central government rules and Bye-laws of Pune District Education Association are duly considered. The Institute has clearly defined policies for all administrative and academic processes. These are approved by the parent body. All processes are adhered to and implemented with a high degree of transparency. The Institute communicates its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders through Institute website admission brochure, Institute / departmental photos, Induction and orientation programs , alumni and parents meet , placement brochure and Institute Magazine and so on.

Strategic/ perspective/development plan :

Strategy Type	Details
Curriculum Development	Curriculum Development: Since the Institute is affiliated to SPP University, it adheres to the syllabus and curriculum plans of the parent University. Internal Evaluation is based on Internal Examination and the policies framed at Institute Level.
Teaching and Learning	The time period given for the Teaching Learning Process is as prescribed by the parent University. Every subject

	<p>teachers plans his / her lectures/practical as per the Academic Calendar of the College and follows the same plan throughout the Semester.</p>
Examination and Evaluation	<p>University conducts Online Theory Examination for all the affiliated Colleges and College conducts Internal Exams for internal assessment. University Results are analysed after every semester. The required measures are taken based on the analysed results.</p>
Research and Development	<p>For Research and Development promotion, IQAC College Management has approached various agencies for the funding through the grants available from BCUD of Pune University, AICTE, Dept of Science Technology. The numbers of such proposals have increased as compared to earlier years. ? The Teaching staff students continuously publish their Research Works in various National, International Journals and Conferences. ? Also, the Teachers who have completed their Ph. D. have also applied with SPPU and other Universities for permission to work as Research Guide, which will help college to increase Research and Development projects.</p>
Industry Interaction / Collaboration	<p>College has a fully fledged Industry Institute Partnership Cell (IIPC) to have regular interaction and joints programmes with the local Industry. Every year Industrial Visits, Guest Lectures, Training programmes are conducted in the college with Experts invited from the Industry. College ensures that Students must get familiar with the current trends expectation form the Industry along with their regular curriculum.</p>
Admission of Students	<p>Every Year College has a budget to be spent on the admission promotion activities. As per the mission of our parent organisation, PDEA, the College focuses more on the rural areas of the Pune and adjoining districts of</p>

Maharashtra state. As per the rules of the Directorate of Technical Education Maharashtra, 80 percent seats are filled by the Centralised Admission Procedure of State Directorate of Technical Education and College has a Management quota of 20 percent seats.

File Description	Document
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6.2.2 Implementation of e-governance in areas of operation

1. Administration
2. Finance and Accounts
3. Student Admission and Support
4. Examination

Response: A. All of the above

File Description	Document
Upload supporting document	View Document

6.3 Faculty Empowerment Strategies

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

Response:

Effective welfare measures :

The institution has effective welfare measures for its employees and it provides a caring and supportive working environment for them. Some of the welfare measures for teaching and non-teaching staff are listed below-

Welfare schemes for

Teaching

Non-teaching

- **Maternity leave for female staff is provided as per the prescribed norms.**
- **CL & ML are also provided as per the prescribed norms.**
- **On Duty leaves with financial assistance for attending conferences / seminars / research activities and examination works assigned by the SPPU and industrial training.**
- **Vacation leave is provided as per the period prescribed in the SPPU Academic Calendar.**
- **Provident Fund to all the approved staff.**
- **Appreciation / Reward for remarkable work / outstanding contribution / Ph.D. Completion.**
- **Permission is given to the staff for higher education.**
- **Financial support is provided to the staff for conferences / Research work / STTP / FDP / Workshop / Seminar, etc.**

- **Performance Appraisal System for teaching and non- teaching staff :**
- **A performance appraisal system for faculties is set-up, well integrated with institutional functioning. All regular teaching and non-teaching staff of the Institute are evaluated every year..**
- **Performance Appraisal is based on :**

For Teaching Staff :

- 1) **Teaching- Learning evaluation.**
- 2) **Co-curricular and professional development activities.**
- 3) **Administrative and extracurricular development contribution.**

4) Research, consultancy and development contribution.

All non-teaching staff is also assessed through annual performance appraisal.

For Non-teaching staff :

1) TEACHING, LEARNING & EVALUATION RELATED ACTIVITIES.

2) CO-CURRICULAR & EXTRA CURRICULAR & PROFESSION DEVELOPMENT RELATED ACTIVITIES.

3) RESEARCH,CONSULLARY & DEVELOPMENT CONTRIBUTIONS.

- A self Appraisal report is evaluated and analyzed by higher authorities.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

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

Response: 13.4

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

2021-22	2020-21	2019-20	2018-19	2017-18
06	05	09	08	11

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

6.3.3 Percentage of teaching and non-teaching staff participating in Faculty development Programmes (FDP), professional development /administrative training programs during the last five years

Response: 30.73

6.3.3.1 Total number of teaching and non-teaching staff participating in Faculty development Programmes (FDP), professional development /administrative training programs during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
30	30	19	22	17

6.3.3.2 Number of non-teaching staff year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
35	16	14	15	13

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

6.4 Financial Management and Resource Mobilization

6.4.1 Institution has strategies for mobilization and optimal utilization of resources and funds from various sources (government/ nongovernment organizations) and it conducts financial audits regularly (internal and external)

Response:

Strategies for mobilization of funds and the optimal utilization of resources :

Institute maintains and follows a well-defined process for the mobilization of funds and resources through various committees. Institute has designed well framed policy / Annual budget for the fund and resource utilization. Tuition fee of students is the major source of income for the institute. Sponsorship funds are also sought from various government and non-government agencies for events like seminar/workshops etc.

Utilization of Funds

The optimum utilization of funds for various recurring and non-recurring expenses is monitored by all concerned.

The purchase committee seeks quotations from vendors for the purchase of equipment, computers, books, etc. and scrutinized the same before a final decision is made based on different parameters.

The Principal and committee members ensure that the expenditure lies within the allotted budget.

Resource Mobilization Policy and Procedure

At the commencement of financial year, institutional budget is prepared which includes recurring expenses such as salary, electricity and internet charges, stationary along with planned expenses such as lab equipment purchases, furniture etc.

The budget is scrutinized and approved by the College Development Committee (CDC).

Statutory auditors are also appointed for certification of the financial statements every year.

Funds from various sources (government/ nongovernment organizations) :

Institution conducts internal and external financial audits regularly :

The institute has a well-defined mechanism for internal and external audit. The internal financial audit of the institution is an ongoing continuous process. In addition to these external auditors also verify and certify the entire Income, Expenditure and the Capital Expenditure of the Institute every year.

Internal Auditors have been appointed at Head Office Level and a team of staff under them to do a thorough check and verification of all financial details that are carried out in each financial year. Likewise, an external audit is also carried out in an elaborate way every year by external statutory Auditors as per the standard norms of Audit and Government regulations. The institute regularly follows Internal & external financial audit system.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

6.5 Internal Quality Assurance System

6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes. It reviews teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals and records the incremental improvement in various activities

Response:

The contribution of IQAC is very positive since its formation in the year 2016-17. The IQAC has very well defined the standard process to be carried out across the Institute for continuous improvements in the goals set by the IQAC. IQAC regularly reviews the performance in all the sectors by the following methodology:

By conducting Regular IQAC - Meetings throughout the year Course Coverage is checked in regular intervals

Reviews are taken about the proposals submitted by the Faculties for Sponsored Projects

Regular reviews are taken about the targets set for the Industry linkage for consultancy projects, MoUs, Internship opportunities etc.

Reviews are taken about the Qualification Improvement efforts taken by the Teaching staff members by arranging the Workshops, seminars, FDPs at our College and encouraging them to attend all of these in other colleges of the university.

The College provides financial support to Teachers for attending the FDPs, Workshops & Seminars as per the recommendations of IQAC.

The College provides support like OD leaves and other leaves for completing the PG & Ph.D. of Teaching Staff.

Regular targets are set for arrangement of Extra Curricular, Co curricular activities, NSS activities, Sports & Cultural activities.

Equipment Maintenance: IQAC has set goal for improvements in the maintenance activities to be carried out in college.

Focus on improvements in Hostel Facilities to the students.

Institute IQAC plays an important role in reviewing the teaching learning process and focuses on effective implementation of Outcome-Based Education (OBE) for all the programs.

The institute has defined Programme Outcomes (POs) based on 12 Graduate Attributes (GAs) as suggested by NAAC.

With the revision in curriculum by affiliating university (SPPU) Course Outcomes (COs) are defined for each course.

Appropriate teaching methodologies and assessment tools are planned and implemented for effective student centric learning.

IQAC has well defined policy and process to define set attainment levels for COs and POs.

At the end of academic year IQAC conducts the academic audit, reviews as well as records the

attainment levels and suggests various activities for incremental improvement.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

6.5.2 Quality assurance initiatives of the institution include:

1. Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements
2. Collaborative quality initiatives with other institution(s)/ membership of international networks
3. Participation in NIRF
4. any other quality audit/accreditation recognized by state, national or international agencies such as NAAC, NBA, ISO Certification etc

Response: B. Any 3 of the above

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Measures initiated by the Institution for the promotion of gender equity and Institutional initiatives to celebrate / organize national and international commemorative days, events and festivals during the last five years

Response:

I) Measures initiated by the Institution for the promotion of gender equity:

Our Institute is committed to ensure a safe and secure environment for girls. Institute is taking key efforts to bring the gender equity through various curricular and co-curricular activities viz. celebration of women's day, conducting health awareness sessions for women, and various women empowerment programs.

Apart from the above mentioned activities Institute is taking care of safe and secured environment in the campus through the following initiatives:

Safety and security: Institute gives utmost importance and priority to the safety and security of all the students. ID cards are issued to the students and staff to prevent the entry of outsiders into the college premises.

CCTV Cameras: To ensure safety and security of the students CCTV have been installed in college campus

Vishakha Women Grievance Ombudsman: This committee is functional with the Principal as the head and Senior Lady Faculty members as coordinators. It addresses grievances received through open/written/email complaints if any. This committee ensures non-occurrence of sexual harassment in the workplace, any reference to sexism, gender stereotyping or gender-based discrimination and need for healthy, safe environment.

Girls Common Room: Institute has separate Girls common room. Common room is well equipped with tables, chairs, beds with linen, drinking water coolers and wash rooms, exclusively for girls.

II) Institutional initiatives to celebrate / organize national and international commemorative days, events and festivals:

The institute aims to inculcate values and nationalism in the students by celebrating the national festivals and birth anniversaries of great Indian personalities in the college campus every year. Eminent personalities are invited to motivate staff and students by their inspirational speeches on those days.

Republic Day and Independence Day: Every year the Institution celebrates Republic Day and Independence Day hoisting the national flag by Chief Guest of the Programme.

Gandhi Jayanthi : Gandhi Jayanthi is celebrated in memory of the Father of the Nation, who devoted his whole life preaching Truth and following Ahimsa. The NSS unit organizes events like 'Swachh Bharat

Abhiyaan' etc.

Teachers Day :The Institution celebrates Teacher's Day commemorating the birthday of Dr. Sarvepalli RadhaKrishnan, a great teacher.

Engineer's day :The organization celebrates Engineer's Day on 15th September to mark the birth anniversary of Sir Mokshagundam Visvesvaraya by arranging different programs

International Yoga Day: International Yoga day is celebrated on 21st June every year in the campus. The sessions include orientation on Yoga, its mental and physical benefits and actual performance of some yoga asanas.

Ganesh Festival: Every year Institute celebrates Ganesh festival in the campus. For five days, the students and faculty members celebrates the festival with gaiety and grandeur.

Shivjayanti: The students and teachers of Institute celebrates Chhatrapati Shivaji Maharaja's birth anniversary every year. The objective of celebrating the Shiv-Jayanti festival is to remember the innumerable qualities of Chhatrapati Shivaji Maharaj, like Efficacious organizer, Strategic Visionary, Great warrior, Enlightened administrator and Inspiring leader.

File Description	Document
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Provide Link for Additional information	View Document

7.1.2 The Institution has facilities and initiatives for

1. Alternate sources of energy and energy conservation measures
2. Management of the various types of degradable and nondegradable waste
3. Water conservation
4. Green campus initiatives
5. Disabled-friendly, barrier free environment

Response: A. 4 or All of the above

File Description	Document
Upload supporting document	View Document

7.1.3 Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following

1. Green audit / Environment audit
2. Energy audit

3.Clean and green campus initiatives

4.Beyond the campus environmental promotion activities

Response: A. All of the above

File Description	Document
Upload supporting document	View Document

7.1.4 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and Sensitization of students and employees to the constitutional obligations: values, rights, duties and responsibilities of citizens (Within 500 words)

Response:

I) Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic

The institute shows immense pleasure and responsibility in the aspect of tolerance and harmony in the fields of culture, linguistic, communal socio-economic and other diversities. With the precise inputs from the Management and Principal, Institute takes initiative within and outside the campus to achieve an inclusive environment for all the students and staff members. Institute always focuses on a peaceful, healthy and comfortable campus for all the students.

The Institute has a cultural committee to maintain harmony among all the cultural, regional and linguistic activities by organizing various events. Institute also takes initiative to find out hidden artistic talent amongst the students by organizing a huge Annual Day Celebration known as 'Confluence'. Themes with various regional, linguistic, social activities are always part of this program. Traditional Day is also celebrated as part of cultural activity in which students are in various costumes of different traditions in India to give the message of 'Unity in Diversity.

Annual Sports Event provides an inclusive environment by bringing students and teachers with diverse background on single platform for creating inclusive environment. National level Cycle Rally Competition is arranged every year.

Institute celebrates the birth ceremonies of all the leaders and iconic persons viz., Great King Chhatrapati Shivaji Maharaj, Dr. Babasaheb Ambedkar, Mahatma Gandhiji, and Dr, APJ Abdul Kalam.

Our students of Roboclub breaking the boundaries country by showcasing their Talent.

II) Sensitization of students and employees to the constitutional obligations: values, rights, duties and responsibilities of citizens

The college establishes policies that reflect core values of Constitution. Code of conduct is prepared for students and staff and everyone is expected to follow it. The affiliating University curriculum is framed with mandatory Audit courses on Professional ethics and human values as a small step to inculcate constitutional awareness among the students.

Major Initiatives:

- The NSS unit is started exclusively to encourage the students for social and ethical values and it is successfully conducting activities to serve the society.
- Beti Bachao, Beti Padhao Abhiyan
- Blood Donation Camp

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

7.2 Best Practices

7.2.1 Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual

Response:

Best Practice I

1. **Title of the Practice:** ROBOCLUB - Robotics Students Club.
2. **Objectives of the Practice:** To encourage and support practical implementations of Robotics curricula in college and in schools. To enhance Creativity and Problem-solving Skills among students. To Help children to connecting the real world and experience the kind of scientific theories that make a robot function. ROBOCLUB is a co-curricular activity that aims to engage students with a fun and enjoyable way of learning new skills as well as to cultivate leadership and entrepreneurship capabilities.
3. **Goals:**
 - Along with participating in robotics events and competitions, they are conducting seminars, workshops and lectures for students to make them clear about the term 'Robotics'.
 - In collaboration with different institution they will conduct lecture series for student.
 - To club together the knowledge from various branches of Engineering into the field of robotics.
 - To go deeper in the sector of robotics year by year.
 - To provide a platform for students to showcase their creativity and innovation.
4. **The Context:** Technology is present everywhere, except in schools. Technologies in schools today do not support the 21st-century learning skills. Students are only consumers not makers for robotics field and are concentrated only for curriculum activities
5. **The Practice:** PDEA's College of Engineering has Robotics students club where students teach robotics to interested students in school. Each year we train 30 to 50 students of our college. We

make team of 5 students and send them to various schools in pune. Our trained students teach robotics and help school students for making robotics projects. We are proud that every year 5 schools have been received our training in pune. Our aim is to make our team size 200-300 so that robotics knowledge should be spread to all over pune by our college students.

6. **Evidence of Success :** Every year this club participates in various Robotics Competition and bags number of trophies for the college. This year they grabbed **World Robotics Championship 2022-Robosoccer**, in a event 'Technoxian' which was held in New Delhi. Apart from this Roboclub had successfully trained 5 schools and our students had helped them to make innovative projects. We also conduct project presentation of these school students every year. All students are trained by our well trained college students. Also our students received thanks letter by respective schools.

7. **Problems Encountered and Resources Required:** Problem in teaching robotics is that insufficient resources are present in schools regarding robotics. Time limit is also one of major factor to be considered. Many schools not provide sufficient time for students for learning robotics. Robotics labs should be developed across every school and one full time faculty should be provided for teaching robotics.

BEST PRACTICE NO. 2

1. **Title of the Practice:** Entrepreneurship Development Centre (ED Centre)

2. **Goals:** The following goals were set for EDC Create awareness on Entrepreneurship among the students through training programs and campus events

- To identify and motivate budding entrepreneurs.
- To facilitate budding entrepreneurs by providing information on entrepreneurial opportunities.
- To create data base and networking to help entrepreneurs.
- To assist entrepreneurs in product development

1. **Context:** One of the most important steps taken at the institution was the establishment of the Entrepreneurship Development Centre (EDC) in the campus. The establishment of this centre was a step taken by the college to prepare the students for their future journey as entrepreneurs. With a distinctive vision of providing a path for young minds to follow and develop their skills, the Entrepreneurship Development Centre (EDC) is one of its kind. Allowing them to pursue their dreams along with a sense of direction, the EDC helps those with a view to shape the global economy. It facilitates the ideas and recommendations of today's youth and allows them to transform these ideas into upcoming venture by providing them the necessary resources to execute their well-thought out plans in the future.

2. **The Practice:** The following functions are carried out by the EDC

- To organize Entrepreneurship Awareness Camps
- Entrepreneurship Development Programs and Faculty Development Programs in the region.

1. **Evidence of Success:** Our Institute have main motive of creating maximum number of entrepreneurs who can provide employment to society. Institute has achieved its target as many of our alumni are having their own business and doing well for self as well as society. Some of our alumni had started following startups.

- **PretInnov:** This is a startup started by one of Computer department Alumni Mr. Siddharth Gupta.

Over the years of global experience with a diverse set of clients & market conditions, PretInnov is proudly saying that they are providing total IT solutions

website: <https://pretinnov.com/>

- **VeriFied Electronics:** E&TC department Alumni Mr. Rakesh Veri started a firm in 2019 named Verified Electronics. It is a firm that provides the fire safety products commercially to the Malls, Hospitals, industrial purposes and all other sectors of society. They are engaged in manufacturing of Conventional Fire Alarm Systems under the brand name 'Fire Annunciator'.

website: <https://in.linkedin.com/in/rakesh-vari-86591590>

- **Trimurty Dairy Farm:** MBA department Alumni Mr. Kiran Sawant is running this Dairy farm. His father Dr.ravindra sawant also been awarded by DD sanhyadri for valuable contribution in Animal husbandry and milk products.

website:

- **Masterrv Designers LLP:** IT department Alumni Rohini Dabholkar is currently working as CEO of her own startup Masterrv Designers LLP. Masterrv Designers LLP is a Limited Liability Partnership firm incorporated on 14 February 2020. It is registered at Registrar of Companies, Mumbai, India. MasterRV Designers are ISO 9001:2015 certified. They specialize in PowerPoint presentations like investor deck, pitch deck, company profile, financial deck.

- **Viswasuta Engineering LLP:** Tanaji Tengale, Alumni of Mechanical department started this startup. Viswasuta Engineering LLP is a Limited Liability Partnership firm incorporated on 27 January 2021. Viswasuta Engineering - Manufacturer of storage tanks, SS heavy fabrication work & air receiver tanks.

website : <https://>

- **Manufast:** Three of our Alumni Shubham Paramshetti, Pradeep Gaikavad and Sagar mamure started a company where they are providing services in manufacturing and design consultancy services in the mechanical engineering field. In the manufacturing services they provide all types of machining (Including CNC, VMC, Lathe, Milling, Drilling, Grinding etc), Cutting and sharing, Laser cutting, Gas profile cutting and Plasma cutting, Bending process, Rolling process, Sand Casting, Die Casting, Forging, 3D printing, Wire cutting machine, Water jet machining, EDM, Welding and Fabrication work, etc.

File Description	Document
Any other relevant information	View Document
Best practices as hosted on the Institutional website	View Document

7.3 Institutional Distinctiveness

7.3.1 Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Response:

P.D.E.A. is a parent institute and backbone of our College with a sole aim of educating even in the rural families of Pune District and to create the bright future generation. Founder member Shri. Baburaoji Gholap started P.D.E.A. on 7th September 1941. Motto is "Benefit and Happiness of the Society".

We are proud to mention that PDEA has received the prestigious, "Best Educational Institute Award" from the Government of Maharashtra for the remarkable achievement in the field of education and social work, 5th September 2000.

The Association runs different branches like Pre-Primary Schools (Marathi and English Medium)-11, Primary Schools-12, Secondary Schools-61, Higher Secondary Schools-31, Vocational Courses-25, Senior Colleges (Multi Facility) - 08, Ayurved College and Research Center - 01, Pharmacy Colleges -02, Management Institutes - 03, Polytechnic Institutes - 01, Engineering College - 01, Law College - 01 and D. Ed College - 01.

The institute has the vision to uplift common masses by rendering value added education. To achieve this institute is continuously working towards creating engineers receptive to the changing demands of the global market.

As per motto of our parent Organization, Institute is trying to reach more rural school going students and is providing them training of Robotics with our trained students. In our institute we have formed a group of students from all branches of engineering who are interested in the field of robotics. They conduct STTP, seminars and workshops in the different schools located in rural area of Pune district. By doing this the college students expose the rural school students with latest trends, knowledge & skills. Based on the exposure to these students they prepare the projects/working models based on the need of their local area. College has recently conducted one Project Model Competition ' Yantrotsav' on Robotics; some of the students with best applications were awarded for their projects. The main aim of this activity is to find the hidden rural talents who never get such encouragement as well as the facility to show their potential useful for their own village society.

With the successful experience of Robotics Training activities in various PDEA's (Parent organization) schools, Institute is planning for conduction of training students in other demanding technologies like Cyber Security, Drone making, Ethical Hacking, Artificial Intelligence, etc. With this Institute will be able to make aware of latest technologies to rural students. This will create interest in new technologies in their mind. Institute is planning various activities for making aware these students usage of ICT tools for online

teaching as COVID 19 pandemic is affecting normal education process. Institute is planning to design a Soft-Skill training module for rural students. This guidance and mentoring help the students to develop their soft-skills in all the dimensions. This will be helpful to boost their confidence in technical field.

File Description	Document
Appropriate web in the Institutional website	View Document

NAAC

5. CONCLUSION

Additional Information :

Pune District Education Association is well known educational Society founded by the dedicated team of social reformers, lead by Ex-Chief Officer of Z. P. Pune, Late Shri. Baburaoji Gholap and has a standing over 67 years in the field of education. The year 2003-04 was the birth centenary year of our founder secretary. We are proud to mention that PDEA has received the prestigious, "Best Educational Institute Award" from the Government of Maharashtra for the remarkable achievement in the field of education and social work, 5th September 2000.

The Association runs different branches like Pre-Primary Schools (Marathi and English Medium)-11, Primary Schools-12, Secondary Schools-61, Higher Secondary Schools-31, Vocational Courses-25, Senior Colleges (Multi Facility) - 08, Ayurved College and Research Center - 01, Pharmacy Colleges -02, Management Institutes - 03, Polytechnic Institutes - 01, Engineering College - 01, Law College - 01 and D. Ed College - 01.

The association has made up of its leeway since 1941. In the year of 1983, a young dynamic leader Prof. Ramkrishna More (Ex. Minister of Education, Sports and Youth Welfare and Culture - Government of Maharashtra) took charge of PDEA as "President". During his tenure, Prof. Ramkrishna More has accelerated the activities of PDEA with an objective of contributing to the intellectual and social transformation in different area like educational, social and cultural. All the institutes of PDEA have made remarkable progress in the field of education under his leadership.

In the year 2006, Inspire - Visionary-Many more years of success in all the ways of life -Young and dynamic wishing leader, Honorable Ajit Pawar, (Ex. Deputy Chief Minister - Government of Maharashtra), took the charge of "President" of PDEA by legacy.

He is inspiring inner and spiritual strength of PDEA family viz Life members, Employees and Students. All the branches of PDEA is now taking global speed towards the destination.

Concluding Remarks :

Conclusion: After the thorough SWOC Analysis following conclusions or Remedial actions need to be implemented:

- To introduce new need based programmes at P.G. level.
- College must get NBA Accreditation.
- College must obtain SPPU permanent affiliation (UGC 12B)
- The industry based theoretical knowledge is to be supplemented by practical work.
- Laboratories are needed to be modernized.
- Train faculty through continuous development programme.
- Improve Industry Institute Collaboration.
- Creation of Modern Teaching methods and ambience.
- Scaling up R & D and collaborative research.
- Increase in entrepreneurship development programmes.
- Encourage faculty to participate in technical event and publication.

- Establish student counseling cell.
- Improve system performance by achieving autonomy, office automation and staff training.
- Establish rural community development centre.
- Effective Admission process and enhanced employability.

NAAC