



Yearly Status Report - 2019-2020

Part A

Data of the Institution

Part A	
Data of the Institution	
1. Name of the Institution	D. Y. PATIL COLLEGE OF ENGINEERING
Name of the head of the Institution	Dr. Vijay M. Wadhai
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	02027653111
Mobile no.	9921843549
Registered Email	principal@dypcoeakurdi.ac.in
Alternate Email	vmwadhai@dypcoeakurdi.ac.in
Address	Sector 29, Nigdi Pradhikaran, Akurdi, Pune
City/Town	Pune
State/UT	Maharashtra
Pincode	411044

2. Institutional Status	
Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Urban
Financial Status	private
Name of the IQAC co-ordinator/Director	Dr. Mrs. P. Malathi
Phone no/Alternate Phone no.	02027653113
Mobile no.	7020182820
Registered Email	iqac@dypcoeakurdi.ac.in
Alternate Email	viceprincipal@dypcoeakurdi.ac.in

3. Website Address	
Web-link of the AQAR: (Previous Academic Year)	https://www.dypcoeakurdi.ac.in/images/News/AOAR_Cycle2report.pdf
4. Whether Academic Calendar prepared during the year	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	https://www.dypcoeakurdi.ac.in/academic

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	A	3.06	2017	26-Nov-2017	27-Nov-2022

6. Date of Establishment of IQAC	16-Feb-2017
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7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Artificial Intellegence	14-Sep-2020	1732

and Data Science	5	
International e-symposium	15-May-2020 3	262
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8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Nil	0	Nil	2020 0	0
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9. Whether composition of IQAC as per latest NAAC guidelines:	Yes
Upload latest notification of formation of IQAC	View File
10. Number of IQAC meetings held during the year :	3
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	View File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No

12. Significant contributions made by IQAC during the current year(maximum five bullets)

Institute has confirmed as a Virtual Lab Nodal Centre for Year 2020. (Nodal Centre ID: 153)

International Webinar on "Education 4.0" : All Students and Faculty members from different Institutes undergoes with webinar series on "Education 4.0" 5th May 2020 to 11th May 2020. 2345 Participants have taken benefit of this.

AICTE Sponsored FDP on "Environment and Sustainability" was organized from 22nd May to 31st May 2020. 162 participants are benefited under this programme.

Facebook Live Seminar Series : 52 sessions were organized by all departments. Experts from various emerging domain address the students and faculty members.

Established Control System DeltaVTM ("Equipment") lab in Instrumentation Department in association with Emerson's System and Solutions Business Unit.

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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes
Online Teaching Learning platforms to be used effectively	Microsoft Team training sessions were arranged for faculty members on 8th June 2020
To fetch Research Grants, Consultancy from recognized bodies	A. Ms Nirmala Bhingare and Mrs Swati Dhamale fetched consultancy of Rs. 20000 from Kimaya Engineering, Thane B. AUM Technologies Consultancy in Mix Design Worth Rs. 54,500 Coordinated by Dr A B More, Dr S M Shiyekar, Dr S S Datta C. Two Online Refersher Programme Sponsored by AICTE ISTE Contemporary AI received grant worth Rs. 1,86,000

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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
Governing Body	10-Mar-2020

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?

No

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission

2020

Date of Submission

27-Jan-2020

17. Does the Institution have Management Information System ?

Yes

If yes, give a brief description and a list of modules currently operational (maximum 500 words)

College has implemented Management Information System (MIS) in collaboration with CollPoll. Our major objective is to go digital with complete Campus and student lifecycle management. Following are the Module successfully implemented and executing.

1. Admission Management: New student every year admitted through DTE are

maintained their admission profile under Admission management. Here, Admission Coordinator (AC) enter primary information of student such as DTE allotment number, Quota, Batch and Branch. After which student receive UID and Password in their registered mail id, through which they online fill admission form and upload documents related to personal and academics. After verification, student also make online payment through Net banking, UPI, Credit and Debit card with third party service ATOM. It helps us to track the financial and admission data in run time environment.

2. Fees Management (Cashless system): Through the system at any instance of time authority can track the total fees paid and balance to paid by student. It also helps to track the scholarship amount received and pending.

3. Student management: It helps to define the status of student as active/completed/year down/drop out. Here student basic information such as phone number, email id and branch can be edited on request.

4. Academic Management: CollPoll also helps in managing the academic efficiently. It helps in maintaining the following information of Program branch wise, its vision, mission, PEO, PO, PSO, subject offered as per syllabus are maintained. It also helps in Scheduling class and subject allotment. Live Attendance monitoring and unique feature such as Assignment, Quiz and exam module also helps in tracking student performance and department progress.

5. Campus Help Center: to address the service requested by student such as issue of bonafied certificate, Fees structure etc are management by campus help center.

6. Booth Management: Faculty and student are connected through booth management in terms of individual subjects or clubs. User can share document, ask query and participate in poll.

7. Placement Management: Currently we are working on implementation of placement module in campus. That can help placement officer to track student academics, and their performance in placement.

8. HR management: Currently all faculty information is stored in HR module. Further module enhancement is under

process. 9. Other Module: Some of the module is under development, which we think can be deployed and executed in coming semester such as Infrastructure management, Pay Role management, Inventory management, Canteen Management, gate Pass etc.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

Institute is affiliated to Savitribai Phule Pune University (SPPU).The curriculum is designed by the university which is developed under the respective stream by the Board of studies that includes senior faculties from affiliated institutes, representative from industries and various organizations related to academics and research. Curriculum is revised once in every four years by SPPU. For effective implementation of curriculum, Institute practices the following action plan

1. Academic calendar is prepared at Institute and Departmental level in line with the academic calendar of University.
2. Subject allocation is done at the department level by considering the competency level and the preferences given by the individual faculty members.
3. Experimental set-ups in all the laboratories are tested and maintained regularly to conduct practical sessions.
4. Academic Time Table (Master Time Table, Department Time Table, Class and Laboratory time table and Individual Time table) is prepared, distributed and displayed, with duly signed by the authorities, before the commencement of every semester.
5. Continuous up-gradation of Course File/ Lab Manual which consist of - Time Table, Syllabus Structure, Course Outcomes, Lesson Planning, Experiment List, Hand Written Notes/Assignments, PPT's, curriculum Gap. Content beyond syllabus, planning for gap fulfillment, Model Question papers, Model Answer Papers, Unit Test Papers and MCQ's (if applicable) etc. It is checked and verified by HOD, Department and College Academic coordinators on regular basis during the semester.
6. After commencement of classes faculty members executes the teaching plan and maintains the record of the following for each subject assigned to them:-
 - Theory and Practical's attendance and continuous performance.
 - Communication with the parents about their ward performance, through SMS, Phone calls and letters.
 - Evaluation of Continuous progressive assessment with respect to Practical / Assignments/Tutorial work etc.
 - Industrial visits, expert's lectures and other curricular activities as planned in academic calendar.
 - Evaluations of students through periodic unit tests, orals, tutorials, assignments, seminars, Preliminary examinations, re-tests, Mock Assessments.
7. Daily academic monitoring by academic coordinators for smooth conduction of lectures & practical's.
8. Due to current pandemic situation class room teaching is imparted through the online teaching platforms like Microsoft Teams, Google Meet and so on.
9. Practical's are conducted through virtual laboratory offered to institute by IIT Bombay.
10. Student's performance is evaluated through online means in the form of quizzes, tests, presentations, puzzles and other teaching pedagogies. The student performance are recorded in Progressive Assessment sheet and respective class records are duly audited internally by HOD's and IQAC.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of	Duration	Focus on employ	Skill
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		Introduction		ability/entrepreneurship	Development
NA	NA	Nil	0	NA	NA

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	Artificial Intelligence and Data Science	15/06/2020
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Computer Engineering	06/07/2020
BE	Information Technology	06/07/2020
BE	Electronics Telecommunication	06/07/2020
BE	Instrumentation Engineering	06/07/2020
BE	Mechanical Engineering	06/07/2020
BE	Civil Engineering	06/07/2020
BE	Production Engineering s/w	06/07/2020
ME	Computer Engineering	10/11/2020
ME	Electronics & Telecommunication : VLSI & Embedded Systems	10/11/2020
ME	Mechanical Engineering : Design Engineering	10/11/2020
ME	Civil Engineering : Construction & Management	10/11/2020
ME	Civil Engineering: Environmental Engineering	10/11/2020
ME	Production Engineering : Manufacturing Engineering and Automation	10/11/2020

1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	643	Nil

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Software Training on	15/07/2020	202

Open Road Designer		
Webinar on Open Flows SewerGems Software Training	16/07/2020	213
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Computer Engineering	52
BE	Information Technology	11
BE	Electronics Telecommunication	24
BE	Instrumentation Engineering	15
BE	Civil Engineering	14
BE	Production S/W	52
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained
<p>Feedback is collected from various stakeholders like students, teachers, employee, alumni and parents for curriculum and overall development of institute. Student: - Students provide teachers feedback twice in every semester (Internal and External) with respect to academics which helps to assess faculty performance with respect to academics and teaching learning process. Teachers: - Teacher feedback provides the feedback of the curriculum with respect to industry needs and identified gaps. Employers: - Employer feedback is collected to understand the curriculum content to meet their requirements. Alumni: - Feedback from Alumni is collected to identify curriculum gap and to assess required skills for employability readiness of our Students. Parents: -Parent feedback helps to understand overall satisfaction level of the curriculum content. Utilization of Feedback for overall development of Institute:- ? Curriculum gap is identified for every subject through feedback collected from students, alumni, and faculty and industry experts. ? Feedback received from student regarding subject and teachers are utilized for improvement in teaching learning process. Suggestions are conveyed to respective faculty member and guidelines are provided by the HOD to plan for the improvement of the same. ? Feedback comments and suggestions are conveyed to the university during revision of the curriculum and also strategize for overcoming curriculum gaps by various measures like industrial visits, guest lectures, value added courses, participation in workshops / conferences /</p>

exhibitions / learning beyond syllabus etc. ? Faculty members of the Institute contribute in curriculum formation at the University by framing and drafting the content of the curriculum. Faculty members further contributes as resource persons for the syllabus discussion workshops for all affiliated institutes. ? Placement selection pattern of industries is discussed by the Training and Placement (T P) officer with HOD and faculty members to enrich curriculum delivery content during classroom teaching. The T P faculty coordinator shares placement process along with the necessary preparation that the students are expected to undergo for the placement drives that would commence from third year of graduation. ? Feedback from industry persons or the company officials visiting for placement process is collected, analyzed and accordingly suggestions are discussed with Department Training Placement faculty coordinator and students for improvement in technical skills, communication skills and personality development. ? All feedback from various stakeholders are used for overall development of institute in terms of academics, human resources facilities, services, infrastructures etc.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BE	Computer Engineering (UG)	120	120	120
BE	Information Technology (UG)	120	120	120

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2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	3705	99	162	22	184

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
184	184	6	23	1	21

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

- The Institute has started the mentoring scheme for all the students long back through which they are guided for a. Professional skill development b. Personality development c. Academics d. Career opportunities e.

Practical / field training f. Counselling for competitive examinations g. Government jobs h. Extra-curricular and co-curricular activities – attending various seminars, conferences, presenting papers, participating in competitions, etc. 2. Track of each student is maintained throughout the course by recording it in teacher guardian book. 3. Students are constantly in touch with the teacher allotted beyond contact hours. Parents also communicate with the teachers in case of need. 4. Student's attendance and their career growth is specially paid attention. 5. Impact analysis is maintained monthly to observe improvement of each student. 6. Students are guided for their projects by taking live problems from industry. 7. They are also guided for taking memberships of various professional bodies which will help them in their career. 8. In the pandemic situation which arose from March 2020, the teacher guardian scheme was equally effectively implemented and students were contacted personally by the teachers to know their good health and well being of the family. They were counselled in case of any problem and help is provided related to academic and administrative domain. 9. BE students were guided and counselled through online meeting platforms and personal calling. 10. Even after the start of the academic year 2020-21, in which online teaching and learning is adopted, periodic reviews are taken regarding the difficulties faced for online learning and their understanding.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
3705	162	1:23

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
178	184	Nil	10	27

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr Ashok B More	Associate Professor	Executive Council Member, Indian Society for Technical Education , New Delhi
2019	Dr Ashok B More	Associate Professor	Expert for "Clean and Smart Campus Award - 2019" (For Odissa and Gujarat State)

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2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BE	627224510	2019-20 SEM-II	26/10/2020	10/11/2020
BE	627224610	2019-20 SEM-II	26/10/2020	10/11/2020

2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

1. Progressive Assessment sheets are maintained for all the courses which are having oral / practical head as defined by SPPU. To focus on the academic continuity to be maintained by students and understanding level, the distribution of marks are decided as attendance (05 marks), viva (15 marks) and presentation (05 marks), total (25 marks) 2. Continuous monitoring of academics is carried out by Dean Academics. In the lock-down period, lectures are conducted through MsTeam application and the lectures are monitored. For these online teaching - learning process, innovative tools used by the faculty members are a. Tablets which enabled the faculties to explain the concepts by actually writing on the tablet. Students responded to this system very well. b. Some faculties used the option of live telecasting the lectures for all the students. c. Many faculties recorded lectures practicals and published the links for the benefit of students through internet tools such as YouTube. 3. Unit tests are conducted each on units 1, 2, 3, 4 and prelim based on whole syllabus. This is in line with the examination pattern of Savitribai Phule Pune University (SPPU). 4. In the pandemic situation of COVID 19, as per the guidelines given by Savitribai Phule Pune University, for the declaration of results of FE, SE and TE students, a very well system is adopted to finalise the internal marks from the Institute which are based on the Continuous Internal evaluation system. Online tests, online prelim exam, online submission of the assignments, orals and practicals, mini projects, etc. are conducted and student's evaluation marks are sent to the university. 5. Continuous presentations on projects are conducted on suitable online platform for which teams of experts are made and students presented their progress through power point presentations. They are assessed and records are kept. 6. Quizzes, assignments (with and without rubrics), discussion forums, sharing of learning resources like NPTEL, Virtual Labs, were provided to students through CollPoll ERP and students responses were monitored. Apart from CollPoll, surveys (Indirect measurement of POs) were conducted in Google and Mi-Teams forms.

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

- Academic calendar is published by Savitribai Phule Pune University at the start of each semester. All the examinations are conducted as per the schedule given in the Institute as examination centre.
- In the pandemic period, Institute has followed all the guidelines as given by SPPU regarding start and end of academic semester.
- In addition to this, academic calendar at Institute level is prepared and most of the activities are conducted according to schedule only. These activities include unit tests, prelim examinations, co-curricular and extracurricular activities. Other activities like guest lectures, site/field visits, unit tests, Training placement activities, seminars, conferences, soft skill training activities, value added courses, internships, etc. depending upon the requirement of the programmes are scheduled and also added in the calendar. These are based on the requirements of subjects, gap between industry and academics, current trends in the industry and students' demands.
- The academic calendar is uploaded on Institute website. https://www.dypcoeakurdi.ac.in/images/Downloads/Academic_Calendar_AY_2019-20_Sem_II.pdf

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<https://www.dypcoeakurdi.ac.in/courses/departments/engineering-colleges-information-technology-it-india>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
627224510	BE	Computer Engineering (UG)	162	160	98.72
627224610	BE	Information Technology (UG)	131	131	100

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2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<https://www.dypcoeakurdi.ac.in/naac>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	730	ISRO-SPPU	1285000	375000
Industry sponsored Projects	90	Minda Industries Pvt. Ltd.	1080000	540000

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3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Webinar on Cloud Computing	Information Technology	08/09/2020
Workshop on Artificial Intelligence Data Science	Information Technology	16/09/2020
Webinar on how to write and publish paper in Web of Science	Information Technology	08/07/2020
Two Days FD workshop on Responsive website development	Information Technology	14/10/2020
International e-symposium on Research innovation Entrepreneurship	Mechanical Department	17/05/2020

IPR: Process for filing Patent	Mechanical Department	09/01/2020
IPR: India and Foreign Patent process	Mechanical Department	16/05/2020
Lecture Series on Construction Management	Civil Department	29/03/2020
Road Alignment fixation	Civil Department	16/04/2020
Structural analysis and Design using STAD -Pro	Civil Department	23/06/2020
Optimization on construction sites	Civil Department	26/06/2020
Earthquake Resistant Structure	Civil Department	29/06/2020
Introduction to BIM Revit Architecture	Civil Department	06/07/2020
Hydrology-Problems, Challenges and opportunities	Civil Department	11/07/2020
Remote Sensing and GIS in land Hazard Management	Civil Department	11/07/2020
Losses in Prestressed Concrete	Civil Department	13/07/2020
Webinar on Open Flows WaterGems	Civil Department	14/07/2020
Webinar on Open Flows WaterGems	Civil Department	16/07/2020
Engineering Chemistry for Green and Sustainable Environment	Civil Department	18/07/2020
Lean Six Sigma Yellow Belt	Civil Department	30/07/2020
Planning of Public Building	Civil Department	17/08/2020
Sustaining Ground water use in India	Civil Department	21/08/2020
Webinar on ProStructure Software	Civil Department	24/08/2020
Micobial induced calcite precipitation	Civil Department	31/08/2020
Numerical Modelling in Fluid Mechanics	Civil Department	16/09/2020
Advanced Construction Techniques	Civil Department	10/10/2020
Production Process Data Management Using concept of Industry 4.0	Production Department	25/06/2020
Jig Fixture, GDT,CMM Applications in	Production Department	26/06/2020

industries		
Finite Element analysis need Scope	Production Department	24/06/2020
Manufacturing Execution Solution	Production Department	28/06/2020

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Deep Learning Nanodegree Scholarship from Facebook and Udacity	Prateek Thakare	Udacity	18/09/2020	International Competition
Best safety drawing award	Harish Kumbhar	Case New Holland India Pvt Ltd	18/02/2020	Industry Safety Awareness Competition

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3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
Nil	Nil	Nil	Nil	Nil	Nil

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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	0

3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
Civil Engineering	1

3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Instrumentation and Control	3	3.03
International	Production Engineering	12	5.30
International	Computer Engineering	3	0.3
International	Mechanical Engineering	9	00
International	Civil Engineering	58	4.67
International	Information Technology	10	0
International	Electronics and	15	0

	Telecommunication		
International	First Year	1	0
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3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Instrumentation and Control	2
Production Engineering	4
Computer Engineering	2
Mechanical Engineering	4
Civil Engineering	4
Information Technology	15
Electronics and Telecommunication	5
First Year	7
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3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Design and Dev of combination Tool for Friction drilling and Tapping Process	Y.G.Kamble	Springer Proceedings of AIMTDR	2019	0	COEP, Pune	Nil
Optimization of drilling process parameter during of drilling of AISI 317L stainless steel	Dr.N K Kamble	Engineering Research Express	2020	0	D Y Patil College of Engineering	1
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3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
A new	Dipalee		2020	Nil	Nil	D Y

adaptive XOR, hashing and encryption-based authentication protocol for secure transmission of the medical data in Internet of Things (IoT)	Ashok Chaudhari	Biomedical Engineering/Biomedizinische Technik				Patil College of Engineering
Optimization of drilling process parameter during of drilling of AISI 317L stainless steel	Dr.N K Kamble	Engineering Research Express	2020	Nil	2	D Y Patil College of Engineering
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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	175	155	180	166
Presented papers	15	3	Nil	Nil
Resource persons	Nil	7	7	9
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3.4 – Extension Activities

3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Winter camp for 7 days	National Service Scheme	1	50
DrishTI Contest	Texas Instruments	2	51
Social Activity PC awareness and importance of education	Information Technology Department	5	40
Free Eye Check-up	Information	3	100

Camp	Technology Department		
International Webinar on Microbial Induced Calcite Precipitation (BioCement): Applications in Remediation and Soil Engineering	DYPCOE / EnBioConcrete, USA	3	250
Students volunteer program	Pune Construction Engineering Research Foundation	1	15
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3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
ISRO IIRS Outreach programme	Coordination	ISRO	189
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3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
COVID-19 Samadhan MHRD Mega Innovation Challenge	AICTE - MHRD	AICTE - MHRD	3	4
MHRD SAMADHAN	AICTE - MHRD	Samadhan challenge to fight the COVID-19 and future challenges.	1	18
Solar Diya (Swachh Bharat Abhiyan)	Energy Swaraj Foundation	Live webinar on Solar Energy	1	48
National Service Scheme	Railway Authority of Akurdi	Swachh Bharat Abhiyan	1	50
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3.5 – Collaborations

3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Lecture Series on Construction	Students and Faculty Members	D Y Patil College of Engineering	3

Management			
Road Alignment fixation	Students and Faculty Members	D Y Patil College of Engineering	1
View File			

3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Internship	Internship	Thermax Ltd.	15/12/2019	15/06/2020	7
Internship	Internship	Minda Industries Pvt. Ltd.	15/12/2019	15/06/2020	3
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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Spring Jaunter Technology, Mumbai	10/03/2019	Skill Development Program Internships	45
Hackersera Cyber Security Consultancy And Training Firm	02/01/2019	Establish Centre of Excellence	105
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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
60490200	36012749

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Newly Added
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing

Video Centre	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Others	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Classrooms with Wi-Fi OR LAN	Existing
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4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
KOHA LMS	Fully	3.20.02.000	2015

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	36640	10252472	1140	655787	37780	10908259
Reference Books	2977	8180166	24	20313	3001	8200479
e-Books	2082	600000	Nill	Nill	2082	600000
Journals	Nill	Nill	84	206257	84	206257
e-Journals	Nill	Nill	169	823628	169	823628
Digital Database	1	Nill	1	823628	2	823628
CD & Video	6929	Nill	Nill	Nill	6929	Nill
Library Automation	1	Nill	Nill	Nill	1	Nill
Weeding (hard & soft)	1182	Nill	Nill	Nill	1182	Nill
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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Dr. V A Kulkarni	Environment and Sustainability	Moodle/YouTube	01/05/2020
Dr. B B Musmade	Learning Management System (LMS)	http://academicssdypcoeakurdi.syncnicia.com	01/03/2020

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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	946	29	1	0	1	27	7	110	0
Added	0	0	0	0	0	0	1	0	0
Total	946	29	1	0	1	27	8	110	0

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

100 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Video Lectures by Faculty Members	https://www.dypcoeakurdi.ac.in/governance/igac
Management Information System for Faculty data	https://dypcoeakurdi.collpoll.com/

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
33398200	11203644	27092000	24809105

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

Students admitted in the college utilize the various facilities like computers, classrooms, gymnasium, playground, reading room, boys common room, girls common room, campus cafeteria, auditorium, medical facilities, indoor/outdoor games, library, students plaza, transport facility, open air theatre, etc. For security reasons CCTV cameras are installed in the entire campus. Housekeeping and garden maintenance is carried out on a regular basis. All the stakeholders have equal opportunity to use these facilities as per the rules and the policies of the Institution. • Various workshops for students and faculty are organized in the IIT Bombay Remote Centre as and when informed by IITs. • Recording room is made available for faculty for generation and publication of e content. • All the circulars and notices are made available to stakeholders via Collpoll. • Laboratory equipments, computers and other gadgets are maintained as and when required on regular basis. • Repairs of furniture, electrical and sanitary fittings are carried out frequently. DSR verification of each laboratory is done by concerned coordinator at the end of every financial year. • Adequate budget provision is done for maintenance work every year. • A housekeeping agency takes care of the cleanliness of the entire

campus. • At the beginning of every semester, subject incharges ensure preparation of their laboratories for proper working and functioning of the required instruments/equipments. • The equipment and instruments are calibrated periodically at department level. • Wash rooms of entire premises are cleaned twice in a day. • A supervisor is looks after the hygiene of wash rooms on each floor. • The institute has Annual Maintenance Contracts (AMC) for maintenance of air conditioners, uninterrupted power supply, lifts, water cooler and fire extinguishers. • Physical Director of the Institute looks after the maintenance of all sports facilities like ground/courts and sports equipment. • Suggestion boxes are kept at appropriate places in the campus to welcome new ideas and suggestions.

<https://www.dypcoeakurdi.ac.in/infrastructure/facilities>

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Annual Cultural, Technical , Sports event and Magazine	3000	1466378
Financial Support from Other Sources			
a) National	1. SPPU, Pune 2.AICTE-ISTE 3. IMMS Post matric scholarship	177	226240
b)International	Nil	Nil	0
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Zensar ESD Program	10/12/2019	31	RPG Foundation
Aptitude Skill Enhancement	15/02/2020	53	Campus Credentials
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
2020	Guidance Session on InfyTQ	Nil	78	Nil	2
2020	Virtusa Software	Nil	47	Nil	15

Session

No file uploaded.

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
Nil	Nil	Nil

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Virtusa Software	110	30	Infrasoft	15	2
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2020	1	BE-E and TC	E and TC	CDAC	Advanced Computing
2020	1	BE Civil	Civil Engineering	NIT, Surathkal	MBA
2020	1	BE Civil	Civil Engineering	DYPCOE, Akurdi	ME
2020	2	BE Production	Production Engineering	University of Sydney	Graduate diploma in logistics and supply chain management
2020	2	BE Mechanical	Mechanical Engineering	University of Siegen	Masters-Machtronics
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	33
Any Other	1
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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Jatra (Funfair event)	Institute Level	1500

Annual Day	Institute Level	2500
Ashwanth Cultural Event, Fashion Show, Dancing, Singing	Institute Level	250
Annual sports (Interdepartmental)	Institute Level	800
Satej Karandak	Institute Level	600
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5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2020	IT : Bristol County State Champion (In Cricket)	National	1	Nil	71602337H	Aditya Vispute
2020	ENTC: 3rd Prize .Group Dance Competition at MEDHA 2020 ,Cultural Fest , Sangamner	National	Nil	1	Team	"Dynamite" Dance Group of college
2020	2nd Prize Online one act play, Heramb Film Entertainment, Kalyan 2nd Prize ,Online	National	Nil	1	BECOMP	Kunal Rashinkar
2020	acting competition s by NatyaHolic Creations, Pune 2nd Prize ,Yugen Online acting	National	Nil	1	BECOMP	Kunal Rashinkar
2020	Competitions, Aveg Kalamandal	National	Nil	1	BECOMP	Kunal Rashinkar

,Pune

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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Under the aegis of college student council various activities such as Sports, Technical and Cultural are conducted. Under the cultural activities it is a tradition to celebrate Theme day, Traditional day, Utkarsh, Jatra and Annual Day. FARENHEIT is a grand cultural event of the college conducted by the students in which various targets such as Acting, Singing, and Dancing etc. are performed. In IQAC two students play a major role in the overall development of the Institute. In all department students are involved in Academic Advisory body to ensure the academic activities of the department. In each and every department student association is formed which takes care of Co and Extra Curricular activities. Students from various departments are the members of Innovation Cell, Entrepreneurship Development Cell and Competitive Exam Cell.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Alumni Association of DYPCOE was formed in the year 2004 and is registered under Charity Commissioner of Pune. The association was registered on 2nd November 2004 with registration number: Maharashtra/1754/2004/Pune. All students graduating from DYPCOE are members of the Alumni association. The association has eleven members on its body with the Principal as Ex-Office President, senior faculties as General Secretary and Treasurer while the remaining members are the alumni. The alumni are associated with the college on continuous basis and contribute in the overall growth and development of the college. We are proud of our Alumni working in various reputed organizations across the globe.

5.4.2 – No. of enrolled Alumni:

1442

5.4.3 – Alumni contribution during the year (in Rupees) :

11000

5.4.4 – Meetings/activities organized by Alumni Association :

1. Dr. Amit Andre from Data Tech Lab Newyork USA Presented Session on Making Online Teaching Learning Effective for International Webinar on education 4.0 initiated by IQAC ,DYPCOE. 2. Dr. Amit Andre from Data Tech Lab Newyork USA Contribution of Rs. 11000/- for Covid 19 -PM Relief Fund initiated by DYPCOE . 3. Mr. Piyush Nikam Member Technical Staff, NetApp RD India conducted online guest lecture on Adversarial ML. 4. Mr. Suraj Kumar from Research Assistant,IIT Bombay Presented Session "Big Data and Advanced Machine Learning Algorithms for classification and Regression. 5. Mr. Suraj Kumar from Research Assistant,IIT Bombay Presented Session Basic GPU architecture, VOLTA and CUDA 9.0 Features. 6. Mr.Prateek Sanap from Infosys Pune has conducted Guest Lecture on Recent trends in industry.Mr. Shaswat Upadhya from Veritas,Pune conducted session on "How to prepare for Placements". 7. Mr. Akash Nalawade working as Air craftsman in Defense was called for Guest Lecture on " Opportunity in Defense ,Army after Engineering". 8. Ms.Mayuree Kedkar, Software Engineering, Bombardiar Transportation India ltd. Vadodara,conducted workshop on "Basics of C Programming" 9. Ms.DimpleKhatrri,Full Stack Developer at Infosys Pune Conducted workshop on "Object Oriented Programming concepts in CPP" 10. Ms.Mayuree

Kedkar, Software Engineering, Bombardier Transportation India Ltd. Vadodara, conducted Guest Lecture on "Preparing better for Campus Placement" 11. Mr. Rahul Mangnale from Network Engineer, Compucom, CSI systems India presented session on Career opportunities in computer network and security field. 12. Mr. Abhishek Rai Chaudhary from Corecentric solutions presented Digital media communication. 13. Ms. Mohini Kadam from Vodafone India presented session on Introduction to networking carrier guidance. 14. Mr. Yogesh Hegade from IOTIOT invited for Expert talk on Key trends in IOT. 15. Mr. Sumnesh Suryawanshi, Delivery Manager, Infosys Engineering Services: IOT Subunit, delivered an expert talk at International webinar on Education 4.0 organized by institute. 16. Mr. Tanay Sil from B R Automation had arranged online training on PLC for all students of department. 17. Mr. Rahul Goswami, Sales Department, WIKA Instruments India, Pvt Ltd, Pune had arranged a placement drive for 2020 batch. Through this drive 1 student got placed. 18. Mr. Mansing Belose, Senior Manager, Softcon Systems, Pune had given opportunity to 2020 batch. Through this drive 7 students got placed. 19. Mukta Pujari from SPA instruments (I) Pvt Ltd, has given placement opportunity for 2020 batch. Interviews are in process. 20. Mr. Pradeep Singh an associate of the Royal Institute of Chartered Surveyors, Invited as an Expert Speaker for subject IECT for TE Civil Engineering Students. 21. Mrs. Varsha Kanitkar from Veracity Structural Consultancy invited for Guest Lecture on Earthquake Analysis. 22. Mr. Dipesh Bafna from Know How Schools Site Visit for Residential Building under Construction, Ravet.

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

1. The major decisions which have a bearing on the functioning of the Institution is through the Governing Body and College Development Committee as per the prevailing norms of the regulatory authority. Principal as head of the Institution and Vice Principal to support Principal office are responsible authorities for overall administration of the Institution. In addition to these bodies the Institute has created additional positions namely Dean Academics and Dean Research Development by delegating authority and responsibility in order to look after smooth conduction of Academics and Research Development activities respectively. As per the requirements of the University additional portfolios of Academic Research Coordinator (ARC), College Examination Officer (CEO) and Student Welfare Officer (SWO) are created, and faculty members assigned the responsibilities appropriately. Institute has also established IIT Bombay Remote Centre and responsibility has been assigned to Remote Centre coordinator. ARC is the coordinator to coordinate the academic research activities with Savitribai Phule Pune University. COE is the faculty responsible for smooth conduction of Examination activities and coordinating with the Director of Examination. Student Welfare Officer is the responsible for student's affairs and related activities and liaising with the Director Board of Student Development in Savitribai Phule Pune University. In addition to these positions Heads of the Departments are responsible for smooth conduction of curricular co-curricular and extra-curricular activities of the department. Director of Physical Education position is responsible for all sports and physical well being of the students. Registrar is the head of the administrative office to look after five sections of the office namely, Students Section, Account Section, Establishment Section, Stores Purchase Section and Examination Section. In addition, Library In charge, Training Placement Officer, Hostel Rector are responsible for their respective activities. 2. Various Committees are constituted and faculty members as representatives of their respective departments are members of the committees.

These committees are responsible for execution of the various events, activities, tasks assigned to them with participation of each and every member of the committee. Various cells are formed as per requirements of either regulatory authorities or the Management which are headed by Senior faculty members for spear heading several initiatives, compliances and value addition activities. Few examples include Media Cell, Innovation Cell, Admission Cell, Alumni Cell, Intellectual Property Rights cell, Competitive Exam Cell etc. Various Clubs are created for the student related participative and Personality and Skill Development activities at department level. In addition to this student clubs are active at Institution level for up skilling of the students in interdisciplinary niche areas such as Robotics, Robotics Process Automation, Art and Culture etc.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Admission of Students	<ul style="list-style-type: none"> • Admission cell is formed during the admission period every year. • Admission cell activities include participation in various education expo in and around pune, counseling of prospective students and parents, guidance to candidates for centralized admission process and career counseling. • Fb live session and webinar have been arranged for counselling of students and parents
Industry Interaction / Collaboration	<ul style="list-style-type: none"> • All departments have established centre of excellence with different industries as well as mou's have been signed with various companies. • Students have been provided with Internship opportunities in nearby Industries as per the areas of interest. • Industrial visits and consultancy projects provide opportunities to interact and collaborate on areas of technological advancements. • Industry experts are invited for online interaction with the students and sharing of knowledge and challenges faced by Industries.
Human Resource Management	<ul style="list-style-type: none"> • Bajaj Allianz group insurance and accidental insurance which also covers covid-19 disease, is taken by the Institute for all the Faculty, Staff and Students. • Well documented HR policies exist for teaching faculty members and non teaching staff.
Library, ICT and Physical Infrastructure / Instrumentation	<ul style="list-style-type: none"> • College library is equipped with Digital library subscriptions, KOHA software and barcode system. • Wi-Fi

access is also made available to students on their personal digital devices. • CCTV Cameras are installed in each class room, corridors and entrance. • Institute Innovation lab is established as per MHRD initiatives to encourage innovation culture amongst the students and faculty members. • Centers of Excellence are actively utilized for conduction of up skilling short term certificate courses for the students. • IIT Bombay remote centre has been established with well-equipped resources

Research and Development

• Student are guided by the faculty members to select state of the art topics of social relevance for the presentations in seminars and project implementations. • Innovative ideas of the students and faculty members are taken ahead for filing IPR. • Plagiarism checking of seminar report, project reports and research papers is carried out before final submission. • Students and faculty members are encouraged to publish papers in reputed journals. • Students participate in different competitions like Smart India Hackathon, SUPRA, BAHA, ROBOTICS, HACKATHON, BOTATHON to present their Innovative project ideas and implementations

Examination and Evaluation

• University Examinations are conducted by the Institute which include Online Examination, In-Semester Examination, Oral/Practical/Term Work Examination and End Semester Examination. • At Institute level, additionally assessment of learning is conducted with two Unit Tests and one Prelim Examination every semester. • Evaluation and assessment is also conducted with presentations in front of external evaluators from Academia and Industry for student ideas and innovations demonstrated through seminars and projects. • Practical hands on assessment is also conducted at Institute level to give practice sessions before final assessment by University. • Unit test and quizzes are conducted on collpoll and submissions of students are taken on google drive for evaluation.

Teaching and Learning

• Students admitted in First Year Engineering are engaged in one week Induction program to get acquainted

with various aspects of Engineering Curriculum. • Faculty members enroll themselves for NPTEL and Coursera courses which helps them to improve quality of content delivery. • Students are also encouraged to participate and acquire NPTEL and Course era courses Certification to enhance their subject knowledge. • ICT based teaching learning techniques are being widely adopted by faculty members. Teaching learning technique includes: Google Classroom, Google Meet, Microsoft Team, Zoom, Colpoll ERP, MOODLE/Gnomio, Spoken Tutorials, Quiz, , NPTEL Videos, Online YouTube Videos, Virtual Labs, Industrial Visits/seminars/Workshop, Group Discussion, Online project presentation, Websites/Blogs etc.

Curriculum Development

- The faculty members of the Institute participate in the syllabus revision and quality improvement of the curriculum developed by the Board of Studies, SPPU.
- Curriculum Gap Analysis is a regular practice followed by department of the Institute. Faculty members discuss the contents of their subjects with Tier -I faculty members, Industry experts, Alumni and Research Scholars in the respective domain to identify the gaps in their curriculum.
- To bridge the curriculum gaps and enhance the learning experience of the students, Workshops, Guest Lectures, Industrial Visits etc. are being organized.

6.2.2 – Implementation of e-governance in areas of operations:

E-governace area	Details
<p style="text-align: center;">Planning and Development</p>	<ul style="list-style-type: none"> • Academic calendar and timetables for the conduction of academics is made available in the ERP system. • Integration of financial data with the tally system is in process. • Academic Management module in ERP system provides all the academic data handling facility for teaching learning process.
<p style="text-align: center;">Administration</p>	<ul style="list-style-type: none"> • Automation of complete administration system is in process in phased manner through the ERP system. • One time student data capture through online admission form is being implemented
<p style="text-align: center;">Finance and Accounts</p>	<ul style="list-style-type: none"> • Online payment facility through payment gateway is available for students through the ERP system for

	submission of admission fees and examination fees.
Student Admission and Support	<ul style="list-style-type: none"> Admission management module of ERP system is functioning through which admission form, documents uploading and approval of the same is available online. Students Queries are being handled through ERP system online.
Examination	<ul style="list-style-type: none"> Entire examination system of SPPU is online and College Examination Officer through his login credentials downloads the question paper for conduction of Theory Examination. Various facilities such as exam forms, appointment of examiners, uploading of marks and final mark list are available through the University portal.

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
Nil	Nil	Nil	Nil	Nil
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6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2020	Circular Economy	Nil	05/08/2020	05/08/2020	33	Nil
2020	Global Association for Transition Engineering	Nil	04/08/2020	04/08/2020	33	Nil
2020	From basic solar energy system to smart energy management	Nil	08/07/2020	08/07/2020	33	Nil
2020	Whatsapp	Nil			1100	Nil

	FDP on Outcome Based Education		24/03/2020	14/04/2020		
2020	Environmental and sustainability	Nil	24/03/2020	30/05/2020	266	Nil
2020	One Day Workshop, KREA T3: Educator by Dr. Kuljeet Uppal	Nil	22/02/2020	22/02/2020	36	Nil
2020	Hand's on Training 1 of Microsoft Team	Nil	20/06/2020	20/06/2020	140	Nil
2020	Nil	Training for Admission Module for Collop	19/10/2020	19/10/2020	Nil	10
2020	Nil	Training on Fees, Management Module	10/06/2020	10/06/2020	Nil	5
2020	Nil	Scholarship Management module	13/10/2020	13/10/2020	Nil	5
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
7 days faculty development program on AICTE-UKIERI Leadership Development Program in Dudley College, UK	25	13/10/2019	20/10/2019	8
One week International	54	05/05/2020	11/05/2020	6

Webinar
Organized by
IQAC on
Education 4.0

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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
Nil	Nil	Nil	Nil

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<p>Management supports the education of the children of regular teaching faculty by providing 50 Concession in tuition fees if they are studying in Dr. D Y Patil Educational Complex at Akurdi, Pune. • Insurance of the faculties were done.</p>	<p>Non teaching staff members are benefited by Employee Provident Fund scheme as per applicable to them. • Management supports the education of the children of regular non teaching faculty by providing 50 Concession in tuition fees, 100 concession in certain cases if they are studying in Dr. D Y Patil Educational Complex at Akurdi, Pune. • Management is financially supporting girl child marriage of all nonteaching staff by providing amount ? 11000/-. Insurance of the staffs were done.</p>	<p>Students Insurance policies- Amartya ShikshaYojana and Group Personal Accident cover is available through National Insurance Company Ltd., for all students of the Institute. • Earn and Learn scheme of SavitribaiPhule Pune University, applicable to the Institute is providing benefits to students through which their supportive services are utilised through which they can earn and support their learning. • RajashreeShahuMaharaj Scholarship provided by State Government to the students to supports them financially. • Social Welfare Office, Government of Maharashtra provides a scholarship to reserved category students (Other than OBC) as 100 tuition fee reimbursement and 50 Tuition fee reimbursement to OBC category. • National Scholarship scheme of Central Government through which every year 04 students get scholarship as 50 tuition fees. • Dr. PanjabraoDeshmukhWastigraha scheme is made available to the students through State Government for</p>

concession in hostel fees. Every year, 150 students are benefited through this scheme

6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

• Financial audit is conducted regularly every year and audited reports are submitted to the appropriate regulatory authority. • Interim audit is conducted in January for the duration April to December • Final Audit is conducted till 31st March for finalization of the audited reports and statements.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Individual (AICTE - ISTE) sponsored	93000	Contemporary AI refresher program (Total 3 lakh sanctioned) Received 1st installment of Rs. 93000/- for October 2020-2021)
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6.4.3 – Total corpus fund generated

33678614

6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	Dr. D Y Patil Institute of Engineering, Management Research, Akurdi, Pune.	Yes	IQAC
Administrative	Yes	V. S. Potdar and Company, Bhandarkar Institute Road, Pune. (Chartered Accountant)	Yes	Dr. D Y Patil Pratishthan, Akurdi, Pune.

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

• Interaction between parent and teachers of wards is conducted wherein feedback is taken from parents regarding academics, student activities and placements etc. • A common platform is set for Parents of all students, where they communicate with the faculty and get information regarding on-going activities of the department (whatsApp Group is formed). • Online parent teacher meeting conducted by various departments

6.5.3 – Development programmes for support staff (at least three)

Nil

6.5.4 – Post Accreditation initiative(s) (mention at least three)

1) Established Centers of Excellence at various departments in collaboration with various Industries. Initiative has been taken in the field of doing research works. 2) Installation of 3D Printer has been done in TOM Lab of Mech. Dept. 3) Robotics lab collaboration has been done with PLM Robotics 4) Collaboration with Microstar Guaging Pvt Ltd 5) Skoda internship program initiated by the dept. of mechanical engineering

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	No
d) NBA or any other quality audit	No

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2020	International e-symposium	15/05/2020	15/05/2020	17/05/2020	262
2020	Artificial Intellegence and Data Science	14/09/2020	14/09/2020	18/09/2020	1732

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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Unleash Your Power by Col Ajay Lal	19/08/2020	19/08/2020	2100	6700
Business and Corporate Etiquette by Prof. Vaidehi Banerjee	28/08/2020	28/08/2020	700	1300
Gender Equity Program "Debugging Life" by Dr. Seema Nair	04/09/2020	04/09/2020	800	1100

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources

The Institute has always emphasized on protecting the environment through "Go Green" slogan by considering climate change and global warming. A four week International FDP on Environment and Sustainability was conducted during 1st May to 30th May, 2020 using Learning Management System (LMS). This FDP had 266 participants from all over the world. In addition to this we have also conducted a Facebook Live session on "From Basic Solar Energy System to Smart Energy Management" by Dr. Marion, Paris, France on 8th July 2020. The Campus is serene, lush green area with an automated irrigation system. The garden is full of seasonal flowers and native fauna of Pune. The widespread roof top area of college is being effectively utilized during the rainy season, wherein the water being collected is directed to the rainwater harvesting plant located near 'C' wing of the college building. The wastewater is regularly collected from the various buildings in the Campus and is directed towards our inbuilt Waste water treatment plant. After proper treatment this water is effectively used for maintaining the lawns. The power consumption of the college has been impressively made environment eco- friendly by the installation of solar panels over the rooftop of the campus Cafeteria and hostel buildings. The use of such renewable energy sources has reduced electric power consumption approximately by 21600 KW.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	301
Provision for lift	Yes	2
Ramp/Rails	Yes	2
Braille Software/facilities	No	Nil
Rest Rooms	Yes	2

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2020	1	1	14/01/2020	15	Marathi Bhasha Sanvardha Pandharwada	To enhance and imbibe culture in youth	508
2020	1	1	21/02/2020	1	Matru Bhasha Diwas	To enhance and imbibe culture in youth	27
2020	1	1	11/02/2020	1	Free Eye check up Camp	1. Create awareness about eye	70

						disorders . 2. Detect re fractive errors and eye ailments for under privilege d communi ty. 3. Increase awareness and provide access to eye care services.	
2020	1	1	27/02/2020	1	Marathi Bhasha Gourav Din	To enhance and imbibe Marathi culture among students.	225
2020	23	23	15/04/2020	12	MHRD AICTE mega online challenge SAMADHAN	To combat COVID-19 situation	73
2020	1	1	21/06/2020	1	6th International Day of Yoga through online	Health awareness	70
2020	1	1	21/09/2020	1	Webinar on "Entrepreneurship is a Journey" through Facebook Live session	To Enhance Entrepreneurship skills among students.	697
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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Academic Discipline and Code of Conduct	10/10/2020	IQAC Chairman and Coordinator conducts monthly meeting to inculcate ethical

practices like behavior, timely reporting, prohibition of malpractices, media interactions, safety and discipline etc with various stakeholders. The Chief Campus Security Officer Col. B. K. Bhonde (Retd.) looks after the security, maintenance of discipline and ethical values in the Campus.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Celebration of 71st Republic Day	26/01/2020	26/01/2020	2500
Poster/ PPT Presentation on the topics ITR, Social awareness and Governness Program, Health and fitness management system.	20/04/2020	25/04/2020	100
Donation of Rs. 20,000 in PM Cares Fund	25/04/2020	25/04/2020	35
Donation of Rs. 20,000 to Lakshya Foundation for poor and needy people	25/04/2020	25/04/2020	35
Celebration of 74th Independence Day	15/08/2020	15/08/2020	100
Mental Health Helpline with Sakal Foundation through Facebook Live session	27/08/2020	27/08/2020	1700
Voters awareness Drive	28/10/2020	28/10/2020	129

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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

Initiatives taken by college to make campus eco-friendly are, 1. Energy conservation 2. Use of renewable energy 3. Water harvesting 4. Efforts for Carbon neutrality 5. Plantation 6. Work from Home to combat COVID-19. 7. Online office Institute ERP software purchased for Student, faculty and Staff and implemented for academic and administrative work to combat COVID with distance learning.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1. Virtual Lab: To promote laboratory experience during Covid-19 pandemic, the institute has collaborated with Virtual Labs by IIT Bombay. The purpose is to provide remote-access to Labs in various disciplines. These labs motivate students to conduct experiments using additional web-resources, video-lectures, animated demonstrations and self evaluation. The Virtual Labs includes various domains and laboratories developed by the prestigious IITs and other premium institutes across the nation. Each experiment is carefully designed with detailed explanation and simulation support. This facility is being effectively utilized by our students of all departments. 2. Use of MS Team software for teaching learning: Microsoft Team is a cloud-based platform of integrated Microsoft tools and is a game-changer for organizations for teaching and learning in pandemic situation. Microsoft Teams is an enterprise communication tool which takes the waste out of traditional office collaboration to benefit use of Quizzes, Assignments, Polls, Attendance, use of white boards, sharing a screen for practical demonstrations. Our college has formed classwise team in Microsoft Teams software for smooth conduction of academic activities. This online platform helped all the students for effective learning. Some of key features of MS Teams which we were used extensively by faculty and students are summarized below: 1. Online assignments/quizzes, 2. Screen sharing or presentation in real time, 3. Whiteboard facility, 4. Discussion forum, 5. One drive for sharing course materials, 6. Attendance monitoring, 7. Recoding facility.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

<https://www.dypcoeakurdi.ac.in/about-us/best-engineering-colleges-post-graduation-pune-university>

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

Facebook live session conducted in Institute The world has experienced an increasing impact of COVID-19 situation in last 10 months. The coronavirus COVID-19 is affecting 216 countries and territories around the world and 2 international conveyances. During the Covid-19 Pandemic, Our Institute has decided to invite eminent Speakers, scholars, academicians, scientist and corporate personals to deliver sessions on the topic of their expertise. The series was planned from July 2020 to September 2020. The sessions were made Facebook live to reach out to the students, faculty and other stockholders. 52 Speakers from across the globe delivered sessions on this platform. Some of the distinguished speakers like Prof. Susan krumdiek, University of Canterbury, Newzeland, Mrs. Nilkashi Joshi, Tokyo, Japan, Mr. Amitabh Saxena, CEO, Anexas, UK, Mr. Ben Bendre, Consultant USA, Dr. Adil Dhalla, Chief operating officer, Singapore from various part of the globe contributed in this activity. There are diverse deliberations on various topics like environment and sustainability, Artificial Intelligence, Data Science, Machine learning, Soft skills, spirituality and social responsibilities. As all the sessions were live could reach maximum stockholders like students, faculty, alumni, parents, industry personals, etc.

Provide the weblink of the institution

<https://www.dypcoeakurdi.ac.in/about-us/best-engineering-colleges-post-graduation-pune-university>

8.Future Plans of Actions for Next Academic Year

1. To participate and achieve ranking in NIRF and other ranking agencies at

National Level. 2. Four departments namely Mechanical, civil, computer and ETC will apply for NBA accreditation. 3. To achieve certification for ISO for all the courses and bring up with complete automated system. 4. To achieve 2f certification under UCG for autonomy process. 5. To apply for Autonomous status of the Institute. 6. Will ensure complete academic quality and best practices to strengthen competency and program outcome of all programmes. 7. To enhance the social contribution by the Institute.