



YEARLY STATUS REPORT - 2020-2021

Part A

Data of the Institution

1.Name of the Institution	PANDIT DEENDAYAL ENERGY UNIVERSITY
• Name of the Head of the institution	Dr. S. Sundar Manoharan
• Designation	Vice Chancellor
• Does the institution function from its own campus?	Yes
• Phone no./Alternate phone no.	07923275007
• Mobile no	9426383008
• Registered e-mail	registrar@pdpu.ac.in
• Alternate e-mail address	vikrant.vala@pdpu.ac.in
• City/Town	Knowledge Corridor, Raisen
• State/UT	Gandhinagar
• Pin Code	382426
2.Institutional status	
• University	Private
• Type of Institution	Co-education
• Location	Urban
• Name of the IQAC Co-ordinator/Director	Dr. Vivek Pandya
• Phone no./Alternate phone no	07923275008
• Mobile	9824225220
• IQAC e-mail address	IQAC@pdpu.ac.in
• Alternate Email address	Vivek.Pandya@sot.pdpu.ac.in
3.Website address (Web link of the AQAR (Previous Academic Year))	https://www.pdpu.ac.in/downloads/Annual%20Quality%20Assurance%20Report%20(AQAR).pd

4. Whether Academic Calendar prepared during the year?	Yes				
5. Accreditation Details					
Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	A	3.39	2016	16/12/2016	15/12/2021
6. Date of Establishment of IQAC	05/09/2012				
7. Provide the list of Special Status conferred 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	
Universtiy	Graded Autonomy	NA	20/04/2018	NA	
8. Whether composition of IQAC as per latest NAAC guidelines	Yes				
<ul style="list-style-type: none"> Upload latest notification of formation of IQAC 	View File				
9. No. of IQAC meetings held during the year	4				
<ul style="list-style-type: none"> The minutes of IQAC meeting and compliance to the decisions have been uploaded on the institutional website. (Please upload, minutes of meetings and action taken report) 	Yes				
10. Whether IQAC received funding from any of the funding agency to support its activities during the year?	Yes				
<ul style="list-style-type: none"> If yes, mention the amount 	685000				
11. Significant contributions made by IQAC during the current year (maximum five bullets)					
Received NBA Accreditation for Petroleum Engineering & Preparation for NBA Accreditation for B. Tech. Electrical Engineering, Chemical Engineering, and Civil Engineering.					
Conducted Research Symposium for Faculties on 04 Jan 2021 & 05 Mar 2021.					
ISO Certifications for the University (EMS -ISO 14001:2015 & QMS - ISO: 9001:2015)					
Conducted Research Symposium for Ph.D. Scholars (May -Jul 2021; 08 Weeks). Conducted Technical Staff Symposium (May -Jul 2021; 08 Weeks).					
Participated in NIRF Ranking and achieved 73rd position in University category; 68th position in Engineering category & 66th position in Management category; Achieved 2nd (4.3/5) Five Star position in Gujarat State Institutional Ranking Framework (GSIRF) Received SSIP Prashansa Award - Best University under Private category; Placed among top 25 Universities in Atal Ranking of Institution on innovation Achievements (ARIIA) awards; Scientific and Industrial Research Organization (SIRO) Recognition renewed till - 31 Mar 2023; Initiating new collaboration with British petroleum for women Empowerment in energy sector. Faculty research collaboration with Shell Hazira India on Green Energy; European union on Horizon 2020 initiative; with Maruti Suzuki on Automotive Manufacturing; Faculty workshop on IPR & Design Patent.					
12. Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year					
Plan of Action	Achievements/Outcomes				
Planned for NBA accreditation for Petroleum Engineering and Preparation for NBA accreditation for B. Tech. Electrical Engineering, Chemical Engineering, and Civil Engineering.	Received NBA Accreditation for Petroleum Engineering for three years on 04th Oct 2021. Final audit for NBA Accreditation for B. Tech. Electrical Engineering, Chemical Engineering, and Civil Engineering conducted on 27th -29th Jan 2022. Awaiting result.				
Planned to conduct Research Symposium for faculties.	Conducted Research Symposium for Faculties on 04 Jan 2021 & 05 Mar 2021. A total of 191 faculties from SoT, SLS, SPT				

	& SPM participated in the symposium.
Planned for ISO (EMS-14001:2015 & QMS 9001:2015) Certifications for the University	Taken initiatives in line with the requirement of ISO and received ISO Certifications for the University (EMS-ISO 14001:2015 & QMS - ISO: 9001:2015) on 29th Nov 2021.
Planned to conduct Research Symposium for Ph.D. Scholars & Technical Staff of the University	Conducted Research Symposium for Ph.D. Scholars (May -Jul 2021; 08 Weeks). Conducted Technical Staff Symposium (May -Jul 2021; 08 Weeks).
Planned to participate in NIRF Ranking in the category of (i) University (ii) Engineering (iii) Management for the year 2020-21.	Participated in NIRF Ranking and achieved 73rd position in University category; 68th position in Engineering category & 66th position in Management category;
Planned to participate in GSIRF 2020-21.	Achieved 2nd (4.3/5) Five Star position in Gujarat State Institutional Ranking Framework (GSIRF)
Planned to Participate SSIP Prashansa Award 2020-21	Received SSIP Prashansa Award - Best University under Private category;
Planned to Participate ARIIA 2020-21 Award.	Placed among top 25 Universities in Atal Ranking of Institution on innovation Achievements (ARIIA) awards;
Planned to renew SIRO recognition for the University.	Scientific and Industrial Research Organization (SIRO) Recognition renewed till - 31 Mar 2023;
Collaboration with British petroleum for women Empowerment in energy sector.	Initiated new collaboration with British petroleum for women Empowerment in energy sector.
Research collaborations with industries	Faculty research collaboration with Shell Hazira India on Green Energy, European union on Horizon 2020 initiative & with Maruti Suzuki on Automotive Manufacturing;
Planned workshop on IPR & Design Patent.	Faculty workshop conducted on IPR & Design Patent on 11 Jan 2022.

13. Whether the AQAR was placed before statutory body?	Yes
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- Name of the statutory body

Name	Date of meeting(s)
Academic Council Committee Meeting	02/02/2022

14. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to Assess the functioning?	Yes
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15. Whether institutional data submitted to AISHE	
Year	Date of Submission
2020-21	24/03/2022

Extended Profile	
1. Programme	
1.1 Number of programmes offered during the year:	50
1.2 Number of departments offering academic programmes	19
2. Student	
2.1 Number of students during the year	6287
2.2 Number of outgoing / final year students during the year:	1500
2.3 Number of students appeared in the University examination during the year	6168
2.4 Number of revaluation applications during the year	0
3. Academic	
3.1	1368

Number of courses in all Programmes during the year	
3.2	255
Number of full time teachers during the year	
3.3	282
Number of sanctioned posts during the year	
4. Institution	
4.1	23997
Number of eligible applications received for admissions to all the Programmes during the year	
4.2	577
Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	
4.3	68
Total number of classrooms and seminar halls	
4.4	1317
Total number of computers in the campus for academic purpose	
4.5	6092.09
Total expenditure excluding salary during the year (INR in lakhs)	

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which is reflected in Programme outcomes (POs), Programme Specific Outcomes(PSOs) and Course Outcomes(COs) of the Programmes offered by the University

PDEU offers various academic programmes under different schools with a perspective of PDEUs Vision and Mission and ingredients of Industry 4.0. All the academic programmes are blend of theory and experiment based learning in the form of industrial exposure and field based learning. PDEU offers cross-discipline study through choice based learning and have good number (more than 10% of total courses of the program) of elective courses to facilitate students in their choice of courses based on their interest and capability.

PDEU follows Outcome Based Education (OBE) for all the programmes offered across the Schools. All the programmes offered at PDEU identifies Program Outcomes (POs), and Program Specific Outcomes (PSO). Each course identifies the Six Course Outcomes (COs) keeping in view the Blooms Taxonomy and finally the COs are mapped with POs.

PDEU has large number of collaboration with industry bodies like CII & ASSOCHAM, Industrial societies and chapters, universities abroad, research organizations. Such collaboration helps in understanding contemporary requirements of curriculum and accordingly incorporates them to align with local, national, regional and global requirements. PDEU also gives opportunity to students for getting an international exposure through its International Exposure Program (IEP).

File Description	Documents
Upload relevant supporting document	View File

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

46

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

1.1.3 - Total number of courses having focus on employability/ entrepreneurship/ skill development offered by the University during the year

1.1.3.1 - Number of courses having focus on employability/ entrepreneurship/ skill development during the year

1186

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

1.2 - Academic Flexibility

1.2.1 - Number of new courses introduced of the total number of courses across all programs offered during the year

607

File Description	Documents
Upload the data template	View File

Upload relevant supporting document	View File
1.2.2 - Number of Programmes in which Choice Based Credit System (CBCS)/elective course system has been implemented during the year	
43	
File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File
1.3 - Curriculum Enrichment	
1.3.1 - Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum	
<p>PDEU integrates cross cutting issues like professional ethics, gender, human values, environment and sustainability in all the academic programmes through curriculum design. It further maps the courses for programme outcome wherein the courses can demonstrate an awareness of Professional Ethics, Gender, Human Values, Environment and Sustainability. The efforts of PDEU can be documented as below.</p> <p>Professional Ethics, Gender and Human Values</p> <p>School of Technology and School of Petroleum Technology in their first year B. Tech. programme has subject on "Professional Ethics and Human Values" across all branches. The course has a section related to human values, which discuss morals, values, and ethics and how they are integrated with each other. The section on ethics related to engineering discusses a variety of moral dilemmas related to the engineering profession. There is also a concerted mapping of program outcome 6,7,8 identified for each course outcome and implemented in teaching & evaluation. Further it includes some discussion related to safety, risk, and global issues. SPM offers course on "Business, Society and Governance" which gives orientation of Professional Ethics and Human Values. SPM has ensured that all the courses may have discussion related to above and are part of Programme objectives.</p> <p>PDEU has a mandatory Rural, Civic and Social Service Internship which is integral to all the Technology and Liberal Studies programme for first-year students. It is conceptualized as a platform for pre-planned, organized, structured, supervised off-campus experiences with an academic context. It helps students understand issues of civic amenities, societal grievances, and models of providing assistance to needy and unprivileged. The internship helps students to comprehend the meaning of life and living. During this internship, students are trained to plan and execute an extensive range of social services, social welfare activities, and work in health and philanthropic organizations. Students undergo the internship at various NGOs, community centers.</p> <p>Expert Lectures on gender-related issues and human values are regularly organized by various schools as a part of their guest lectures, workshops, conclave, conferences etc.</p> <p>Environment and Sustainability</p> <p>All the academic programmes offered by PDEU sensitizes students on Environment and sustainability. Wherever the courses / topics have relevance and interface with environment and sustainability it becomes part of the curriculum. Two of the departments (i.e. Solar Energy and Nuclear Energy) of PDEU School of Technology offer Masters and PhD programmes having course curriculum which has focus on Environment and Sustainability. Department of Electrical Engineering also has many courses in its M. Tech and B Tech programme which offers orientation on environment and sustainability. Most of the schools have courses which includes importance of Environment and Sustainability.</p> <p>Adequate number of course across the schools sensitize students on Gender, Environment and Sustainability, Human Values and Professional Ethics.</p>	
File Description	Documents
Upload relevant supporting document	View File
1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year	
16	
File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File
1.3.3 - Total number of students enrolled in the courses under 1.3.2 above	
1.3.3.1 - Number of students enrolled in value-added courses imparting transferable and life skills offered during the year	
1900	
File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File
1.3.4 - Number of students undertaking field projects / research projects / internships during the year	
3383	

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File
1.4 - Feedback System	
1.4.1 - Structured feedback for design and review of syllabus - semester wise / is received from Students Teachers Employers Alumni	• All 4 of the above
File Description	Documents
Upload relevant supporting document	View File
1.4.2 - Feedback processes of the institution may be classified as follows	• Feedback collected, analysed and action has been taken
File Description	Documents
Upload relevant supporting document	View File
TEACHING-LEARNING AND EVALUATION	
2.1 - Student Enrollment and Profile	
2.1.1 - Demand Ratio	
2.1.1.1 - Number of seats available during the year	
2143	
File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File
2.1.2 - Total number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per applicable reservation policy during the year (Excluding Supernumerary Seats)	
2.1.2.1 - Number of actual students admitted from the reserved categories during the year	
199	
File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File
2.2 - Catering to Student Diversity	
2.2.1 - The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners	
<p>Performance of the students varies from course to course and even between lab and theory sessions. The faculties are given independence to be flexible in the teaching pedagogy while dealing with students. The faculties are free to work with different tools and activities to synchronize and harmonize the class having transparency and bridge the gap in the level of understanding.</p> <p>Based on the continuous evaluations process (mid-term exams/quiz/assignments) and based on CGPA/backlogs in end-term exams, students are identified into slow learners and active/advanced learners. The courses are further detailed and specific problems are taken during tutorials and class to deal with resourceful students. Advanced learners are encouraged to opt for professional electives, Student Research Projects funded by the University, Hackathon, Start Up & incubation Activities. However, the above options are made available for Slow learners as well. In addition to these specific topics are given to advanced learners for self-preparation and then participate in teaching to the peers. The preparation lays the foundation for self-learning and exploring the topic from varied sources. Fast learners are encouraged to write Research Papers and participate in Conferences.</p>	
File Description	Documents
Upload relevant supporting document	View File
Link For Additional Information	Nil
2.2.2 - Student - Full time teacher ratio during the year	
Number of Students	Number of Teachers
6754	261
File Description	Documents
Upload relevant supporting document	View File
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	
PDEU understands the importance of student-centric methods which are imbibed in curriculum through the different learning modules. The modules are revived during the planning and modifications of	

the curriculum from time to time. The aspects are engrossed as a regular component in evaluation during the course. Curricular: PDEU curriculum is based on outcome based education (OBE) and choice based credit system (CBCS). PDEU has imbibed courses with practical training, skill based training and project work. Over 100 Students have been certified every year through e-learning and online courses (MOOC). Additionally there are value added courses as electives. Student interactions is also improved thorough alumni connect and alumni webinars. Case Studybased learning pedagogy is largely favoured for PG studies. Co-Curricular As a part of HACK 4.0 500+ students in 95+ teams have participated in Hackathon on electric mobility and energy storage system. Over 1000 students has undertaken Industry internships. Students involved in SRPs were able to involve in 7+ IPRs in collaboration with faculties. All enrolled students (500+) for placements are also trained for career progressions activities. Extra-Curricular As a part of NCC program about 30+ cadets are trained while 1000+ students have undertaken Rural Internship / Civic and Social Service Internship (RI/CSSI) which is primarily a community connect program. Students in the final year (100+) have worked on industrial problems while working on the comprehensive projects.

File Description	Documents
Upload relevant supporting document	View File

2.3.2 - Teachers use ICT enabled tools including online resources for effective teaching and learning processes during the year

At PDEU faculties are committed to teach with technology. Few of the ICT tools that are used regularly are presented here.

1. TCSion - A robust application named TCSion been implemented for handling all the data concerning to faculty and students. Candidate's attendance, grading and marks for the subjects are accessed through the same platform.
2. MS-Teams - Amid COVID Pandemic PDEU went on to synchronize and make uniformity in teaching process. Microsoft Teams is used as the platform for conducting online classes, chat with students, have video conferencing departmental and students meetings related to projects and seminars, file storage and sharing, and integrating for all the teaching learning processes online.
3. PEXA - PDEU adopted an online exam and proctoring through EFH-PEXA platform by littlemore innovations (<https://www.littlemoreinnovation.com>). All students (5000+) across PDEU had proctored based online examination through the platform.
4. Smart Classroom - Amid COVID PDEU has made the digital devices available to cater the changing needs of taking classes online along with the existing computer and projectors.
5. Subject Oriented Softwares - Aspen/CAD/Polymath/COMSOL/Matlab/C - Different software's are taught and used as a part of teaching learning process specific to different subjects.
6. MOOC : Coursera/EdX/NPTEL/e-Pathshala/IBM courses are available to students from PDEU.
7. Zoom - PDEU has Zoom license and is currently used for conducting webinars and conferences. Students join online in bigger numbers on the platform. Over 100+ webinars and multiple conferences were conducted during COVID time on different platforms. Also Hackthaon HACK 4.0 with more than >500 students was taken online.
8. Audiovisual Education is the need of an hour. All the faculties use the different MS software's for better interaction, showcasing and focusing on intricacies of the topic and focus on concepts.

File Description	Documents
Upload relevant supporting document	View File

2.3.3 - Ratio of students to mentor for academic and other related issues during the year

2.3.3.1 - Number of mentors

198

File Description	Documents
Upload relevant supporting document	View File

2.4 - Teacher Profile and Quality

2.4.1 - Total Number of full time teachers against sanctioned posts during the year

261

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

2.4.2 - Total Number of full time teachers with Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D'Lit. during the year

223

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

2.4.3 - Total teaching experience of full time teachers in the same institution during the year

2.4.3.1 - Total experience of full-time teachers

1401.59

File Description	Documents

Upload the data template	View File
Upload relevant supporting document	View File

2.4.4 - Total number of full time teachers who received awards, recognition, fellowships at State, National, International level from Government/Govt. recognised bodies during the year

15

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

2.5 - Evaluation Process and Reforms

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

2.5.1.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results year wise during the year

26

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

2.5.2 - Total number of student complaints/grievances about evaluation against total number appeared in the examinations during the year

1

File Description	Documents
Upload relevant supporting document	View File

2.5.3 - IT integration and reforms in the examination procedures and processes (continuous internal assessment and end-semester assessment) have brought in considerable improvement in examination management system of the institution

PDEU has brought multiple reforms in the examination procedures and processes integrating IT into internal and end semester examination assessment.

1. Proctored based End Semester Online examination through PEXA-EFH for all students (5000+) across the University
2. Online proctored based invigilation by 345 (including visiting faculties) faculties
3. Continuous internal assessment through Online MS Team Platform for all students (5000+) across the University
4. Online assessment for 25000 answer books through PEXA-EFH. Access to evaluated answer books to students
5. Result processing and Publishing through TCSiON for all students (5000+) across the University

Student's evaluation done over the complete semester is collated by the faculties. These evaluations has to be filled in the template mark entry excel sheet for the specified subject. Once the sheets are uploaded on the TCSion portal. The portal process the details for each candidate and subject wise grades are displayed against each subjects. Results are also published online for the students to view. Hardcopies of the results are then printed and distributed to the students through the administration.

File Description	Documents
Upload relevant supporting document	View File

2.5.4 - Status of automation of Examination division along with approved Examination Manual

A. 100% automation of entire division & implementation of Examination Management System (EMS)

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

2.6 - Student Performance and Learning Outcomes

2.6.1 - The institution has stated learning outcomes (generic and programme specific)/graduate attributes which are integrated into the assessment process and widely publicized through the website and other documents

The Programme Educational Objectives (PEOs), Programme Outcomes (POs) are articulated for all programme. The course outcomes are prepared following Bloom's Taxonomy and are mapped to the concerned programme's POs and the course syllabus and assessment strategies are derived based on the mapping. All programmes adhere strictly to the norms of statutory bodies such as NAAC, NBA, etc. and the curricula are developed in line with the NEP 2020, incorporating cutting edge topics pertaining to Industry 4.0.

Course Outlines are prepared and distributed to students of each programme at the beginning of a term (semester/trimester, as the case may be) and communicated via online platforms such as MS Teams and emails for ease of records and transmission to each batch of students. The same are reflected in the LMS too. A Handbook containing course requirements and syllabi is shared with students at the beginning of a programme that details the course objectives and outcomes, suggested breakdown of modules and assessment criteria.

File Description	Documents
Upload relevant supporting document	View File

2.6.2 - Attainment of Programme outcomes, Programme specific outcomes and course outcomes are evaluated by the institution during the year

Detailed Course Outlines contain POs, CO-PO mapping details, assessment component details and schedule, session plan, mapping of assessment components to COs and rubrics for assessment. Separately, instructions for continuous evaluation components are provided as per specific course's requirement.

Attainment of Course Outcomes

Student-wise CO evaluation for Internal Assessment Components of a course is collated in an MS Excel worksheet. The formulae for calculating Final COs and Weighted COs as per the stated learning outcomes communicated to students at the beginning of each academic term are used to arrive at the cumulative Internal Assessment attainment for each student.

Attainment of Program Outcomes (Course-wise direct linkages)

Course Outcome attainment levels are codified at the beginning of an academic term (E.g., 60% scoring at or above an agreed-upon level for a CO means the CO is attained and it is coded "1" in an Excel worksheet for calculating PO Attainment; else, "0"). The worksheet draws from the details provided in the previous ones on attainment of course outcomes (described earlier here). The summary and target-versus-attained levels etc. are depicted pictorially too for ease of interpretation and analysis.

Based on these analyses, the Course Outcome and Program Outcome related actions are proposed in faculty meetings of the respective areas/branches.

File Description	Documents
Upload relevant supporting document	View File

2.6.3 - Number of students passed during the year

2.6.3.1 - Total number of final year students who passed the university examination during the year

1378

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire) (results and details need to be provided as a web link)

<https://www.pdpu.ac.in/downloads/Students%20Satisfaction%20Survey%20Report%202020-21.pdf>

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

3.1.1 - The institution Research facilities are frequently updated and there is well defined policy for promotion of research which is uploaded on the institutional website and implemented

The Office of Dean - Research and Development (DORD) provides, to entire PDEUfraternity, support for the free and responsible conduct of investigative, scholarly and creative activities at Pandit Deendayal Energy University, Gandhinagar. TheOffice of Dean - Research and Development offers support from the initial stages ofproposal development to grants management, publication and the transfer oftechnology in terms of patent and prototype. We provide internally funded grants,pre-award and post-award support for externally funded grants and offereducation and support information on grant compliance and the responsibleconduct of research. PDEU receives grant from Central and State governmentfunding agencies like Ministry of Human Resource Development (MHRD),Department of Science and Technology (DST), Board of Research in NuclearSciences (BRNS), Department of Biotechnology (DBT), Indian Space ResearchOrganization (ISRO), Indian Council of Social Science Research (ICSSR) andGujarat Council on Science and Technology (GUJCOST).The Student Research Program (SRP) offers Financial Assistance to PDEU studentsto work on basic and applied research projects. Projects provide students with ameaningful research experience, with the student assuming the principal role andthe faculty or teaching academic staff member serving as a mentor. The studentsubmits proposal, using the advice and technical expertise of the mentor as aguide.

File Description	Documents
Upload relevant supporting document	View File

3.1.2 - The institution provides seed money to its teachers for research (amount INR in Lakhs)

6

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

3.1.3 - Number of teachers receiving national/ international fellowship/financial support by various agencies for advanced studies/ research during the year

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File
3.1.4 - Number of JRFs, SRFs, Post-Doctoral Fellows, Research Associates and other research fellows enrolled in the institution during the year	
37	
File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File
3.1.5 - Institution has the following facilities to support research Central Instrumentation Centre Animal House/Green House Museum Media laboratory/Studios Business Lab Research/Statistical Databases Moot court Theatre Art Gallery	A. Any 4 or more of the above
File Description	Documents
Upload relevant supporting document	View File
3.1.6 - Number of departments with UGC-SAP, CAS, DST-FIST, DBT, ICSSR and other recognitions by national and international agencies during the year	
00	
File Description	Documents
Upload the data template	View File
Upload relevant supporting document	No File Uploaded
3.2 - Resource Mobilization for Research	
3.2.1 - Extramural funding for Research (Grants sponsored by the non-government sources such as industry, corporate houses, international bodies for research projects) endowments, Chairs in the University during the year (INR in Lakhs)	
1112.55	
File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File
3.2.2 - Grants for research projects sponsored by the government agencies during the year (INR in Lakhs)	
344.97	
File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File
3.2.3 - Number of research projects per teacher funded by government and non-government agencies during the year	
0	
File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File
3.3 - Innovation Ecosystem	
3.3.1 - Institution has created an eco-system for innovations including Incubation centre and other initiatives for creation and transfer of knowledge	
<p>PDEU-IIC is an incubator established in 2014 by Pandit Deendayal Energy University (PDEU) as which got formally registered in 2017 u/s 8 of Companies Act, 2013. It is recognized as Nodal Institute by Govt. of Gujarat and registered as Startup India Incubator under DIPP (Department of Industrial Policy and Promotion, Govt. of India). Also, PDEU-IIC is supported by Student Start-up and Innovation Policy (SSIP) by Education Dept. of Govt. of Gujarat, Startup Innovation Policy by Industries Commissionerate (IC) and Department of Science and Technology (DST) by Government of Gujarat.</p> <p>Till 2021, PDEU-IIC has incubated more than 120 Start-ups including more than 55 registered companies in different domains such as waste management, energy and environment, IT & IOT, Fintech, Cleantech, etc. with more than 200 employment generated and more than Rs.40,00,00,000 of sales by these incubated start-ups.</p> <p>During 2020-21, inspite of Covid-19 pandemic, PDEU-IIC organizes 10 events in collaboration with various government bodies at state as well as national level for students, start-ups and innovators, as well as and 2 hackathons with participation of 1429 students split in 302 teams under 123 mentors. The detailed reports/videos etc. of which are available on the link à http://iic.pdpu.ac.in/en/event-and-workshop-two-thousand-twenty.</p>	

Till now, PDEU-IIC has organised more than 110 events with more than 18000 participants till 2021. The events include hackathons, children innovation programs, startup training programs, webinars, expert sessions, start-up weekends, workshops etc.

File Description	Documents
Upload relevant supporting document	View File

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

3.3.2.1 - Total number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development year wise during the year

109

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

3.3.3 - Number of awards / recognitions received for research/innovations by the institution/teachers/research scholars/students during the year

3.3.3.1 - Total number of awards / recognitions received for research/innovations won by institution/teachers/research scholars/students year wise during the year

6

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

3.4 - Research Publications and Awards

3.4.1 - The institution ensures implementation of its stated Code of Ethics for research

3.4.1.1 - The institution has a stated Code of Ethics for research and the implementation of which is ensured through the following

- Inclusion of research ethics in the research methodology course work
- Presence of institutional Ethics committees (Animal, chemical, bio-ethics etc)
- Plagiarism check
- Research Advisory Committee

B. Any 3 of the above

File Description	Documents
Upload relevant supporting document	View File

3.4.2 - The institution provides incentives to teachers who receive state, national and international recognitions/awards Commendation and monetary incentive at a University function Commendation and medal at a University function Certificate of honor Announcement in the Newsletter / website

E. None of the above

File Description	Documents
Upload the data template	No File Uploaded
Upload relevant supporting document	No File Uploaded

3.4.3 - Number of Patents published/awarded during the year

3.4.3.1 - Total number of Patents published/awarded year wise during the year

112

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

3.4.4 - Number of Ph.D's awarded per teacher during the year

3.4.4.1 - How many Ph.D's are awarded during the year

29

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

3.4.5 - Number of research papers per teacher in the Journals notified on UGC website during the year

2

File Description	Documents
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Upload the data template	View File
Upload relevant supporting document	View File

3.4.6 - Number of books and chapters in edited volumes published per teacher during the year

3.4.6.1 - Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings during the year

177

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

3.4.7 - E-content is developed by teachers For e-PG-Pathshala For CEC (Under Graduate) For SWAYAM For other MOOCs platform For NPTEL/NMEICT/any other Government Initiatives For Institutional LMS

D. Any 2 of the above

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

3.5 - Consultancy

3.5.1 - Institution has a policy on consultancy including revenue sharing between the institution and the individual and encourages its faculty to undertake consultancy

Taking the vision and mission of the university into consideration, Research Advisory Board is constituted to promote research and consultancy. Consultancy policy of the university guides the consultancy initiatives by university faculty and provides norms and regulations for consultancy projects implementation.

Salient features of the consultancy policy are listed below:

1. The total number of hours put up by faculty in a year for MDP + consulting hrs should not exceed 400 hrs (50 days) or remuneration shall not exceed 30% of the annual salary (excluding HRA and allowances) of the respective year whichever is lower to ensure focus for assigned curriculum. However DG may relax the limit of 400 hrs if the additional hours are during holidays on case to case basis.
2. The distribution to support staff shall be decided in due course after consulting respective personnel.
3. The efforts of evaluation of assignments/presentations of projects, as part of the program, is covered in the charges for delivery.
4. Proper accounting of the expenditure should be decided to enable to workout correct cost of the program.
5. The hostel charges, if accommodation is provided should be decided and considered in the cost estimate.

PDEU Faculties do consultancy and clients include KEI-Ross, L&T, GSPC, GSFC, GSECL, GETCO, GERMI, GUVNL, GPCB, Roads and Building Dept, Govt. of Gujarat etc. The consultancy projects and client also include Safal Constructions and Govt. of Gujarat.

File Description	Documents
Upload relevant supporting document	View File

3.5.2 - Revenue generated from consultancy and corporate training during the year (INR in Lakhs)

3.5.2.1 - Total amount generated from consultancy and corporate training during the year (INR in lakhs)

161

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

3.6 - Extension Activities

3.6.1 - Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the year

The Office of Student Activities, Involvement & Leadership (OSAIL) complements students' academic experiences by providing services and resources that engage students in creating campus culture through social, cultural, intellectual, spiritual, athletic, recreational, artistic, political, and service opportunities.

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, more than 700 students participated in various social activities including creating awareness about cleanliness (swachhata week), importance of organ donation, village surveys, tree plantation, gender equality safety, blood donation camps etc. among others.

The OSAIL organizes Vacation Workshops under Community Development Initiative (CDI) every year. These programmes include workshops such as Terracotta, Spoken English, Folk Dance, Art & Craft, Computer, Mehndi and Drama, wherein children from the neighbouring villages too participate alongwith the students of the university.

To sensitize the students towards social issues and to attain holistic development, opportunities are provided for student participation and leadership experiences in a variety of officially recognized clubs and organizations. Currently it mentors and funds around 20+ student clubs which conducts around 175 events throughout the academic year. The staff is committed to delivering quality advising, resource materials, leadership development opportunities, and administrative support services to impact students' growth and development and enhance the success of each student organization.

File Description	Documents
Upload relevant supporting document	View File

3.6.2 - Number of awards received by the Institution, its teachers and students from Government /Government recognised bodies in recognition of the extension activities carried out during the year

3.6.2.1 - Total number of awards and recognition received for extension activities from Government / Government recognised bodies during the year

107

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

3.6.3 - Number of extension and outreach programs conducted by the institution including those through NSS/NCC/Red cross/YRC during the year(including Government initiated programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. and those organised in collaboration with industry, community and NGOs)

702

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

3.6.4 - Total number of students participating in extension activities listed at 3.6.3 above during the year

2531

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

3.7 - Collaboration

3.7.1 - Number of collaborative activities with other institutions/ research establishment/industry for research and academic development of faculty and students during the year

3.7.1.1 - Total number of Collaborative activities with other institutions/ research establishment/industry for research and academic development of faculty and students during the year

245

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

3.7.2 - Number of functional MoUs with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the year

29

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

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

Pandit Deendayal Energy University (PDEU) has developed high-tech campus with modern facilities/learning resources for quality education and promotion or research and development activities. The infrastructure facilities and learning resources includes class room for teaching, academic and research laboratories, library, workshop, language labs, centre of excellences, conference/meeting rooms, tutorial room etc. All departments and schools of the university are well equipped with adequate number of classrooms and laboratories. There are 68class rooms with ICT facility, 12 lecture theatreof 120 to 240-sitting capacity, 77 State-of-the-art Academic Laboratories, 24 Research laboratories like Welding Research, Bio Fuel & Bio Energy Studies, Product Design and Simulation, SEM/EDX, Electrochemical, XRD Laboratory etc. All classroom and lecture theatreare ICT enabled with multimedia projector, touch pad, VGA distributor, Audio-Video Aids, internet connectivity, computer systems, sound absorbing walls and ceiling in addition to the conventional methods of teaching. All classrooms and lecture theaters are on the campus are air-conditioned. The entire campus is Wi-Fi enabled and allows teachers and students to access the Internet for a dynamic teaching-learning process. University has 03 virtually connected, fully automated and air-conditioned libraries with over 1.5 lakhs books and e-books, periodicals,

references, national and international journals, CD-ROMs covering all aspects of academic studies and research material.

File Description	Documents
Upload relevant supporting document	View File

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

PDEU has sports facilities spreaded over 83,902 Sq.mtr (20.7 Acre) which include cricket, basketball, football, volleyball, basket ball, lawn tennis, badminton, fitness centers etc. Along with available sports/cultural facilities, university has prepared a plan for establishing Sports Complex over 187768 Sq.mtr area to include modern sport facilities such as swimming, shooting, squash along regular sports facilities. The Office of Student Activities, Involvement & Leadership (OSAIL) at PDEU complements students' academic experiences by providing services and resources that engage students in creating campus culture through social, sports, cultural, intellectual, spiritual, athletic, recreational, artistic, political, and service opportunities. Coaching is provided to the students for various sports activities and fitness through coaches and fitness trainers. This is reflected also in the increasing active participation in sports activities by a number of students. The university has state of the art world class auditorium of 480 capacity that is used by the university for cultural activities, conferences and workshops etc. Every year PDEU is organizing an annual sports fest "Petro Cup" where the athletes across the country participants in various sport events. University has established 03 gymnasium with world class facilities for fitness and cardiovascular exercises which enable students to improve your lifestyle, health and general wellbeing. Through its excellent sports facilities, PDEU offers opportunities to students for regular work-out, lifestyle management and interaction.

File Description	Documents
Upload relevant supporting document	View File

4.1.3 - Availability of general campus facilities and overall ambience

Pandit Deendayal Petroleum University's 98.2 acre campus is located in Gandhinagar, which is the capital city of Gujarat. The campus is speeded over 98 acres of land with landscaping, well equipped 77 state of art academic and 24 research laboratories, fully air-conditioned 70 classrooms, 12 lecture theaters, 01 auditorium of 470 capacity, cafeteria, sports ground (83,902 Sq.mtr), 24x7 medical facility, on campus state bank of India bank facility, stationary and reprographic faculty, CCTV surveillance system with 458 cameras, Boys and Girls hostels with 1042 furnished rooms with 2680 student capacity, fully automated virtually connected 03 libraries.

The campus is Wi-Fi enabled with 150 Wi-Fi access points and LAN connectivity with 25+ km Fiber Optic Cables with ring topology. The classrooms are equipped with multi-media and audiovisual equipment to facilitate effective learning. The University has ensured that the students enjoy a healthy food diet charted out by a dietitian which is wholesome and nutritious. The food court also provides refreshments throughout the day. The cafeteria is attractively laid out and offers students an eco-friendly environment to relax while deliberating on their academic challenges. Food franchise stalls are available on campus to serve hygienic and verity of food to the students. Performing Arts Room facility is available for the students. Students prepare and practice for their Dance, Music, Drama competition.

File Description	Documents
Upload relevant supporting document	View File

4.1.4 - Total expenditure excluding salary for infrastructure augmentation during the year (INR in Lakhs)

7469

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

4.2 - Library as a Learning Resource

4.2.1 - Library is automated using Integrated Library Management System (ILMS) and has digitisation facility

The Library at university holds a huge collection of printed as well electronic resources which include books, journals, databases, CDs/DVDs, e-journals, reports, case studies, conference proceedings, training manuals, etc. PDEU has three fully automated and virtually connected libraries automated since 2006 using the TCSion and KOHA Version: 19.11.02.000 version of Library Management Software (LMS).

University library has adequate number of work stations to facilitate searching/accessing OPAC, e-resources, web browsing and for other academic works. Provision has also been made to allow downloading/printing of material from these resources. Libraries are also members of DELNET.

The university enjoys a rich archive of rare books and manuscripts. There are around 6,000 rare books, 47 rare dictionaries, 66 rare grammar books, 8076 manuscripts and 90 rare diaries in the university records. The university also boasts of several original portraits and paintings in its collection, most notably that of Cornelia Sorabji, the university's first woman graduate. These are properly catalogued with accession numbers and maintained in the university library. A detailed account of rare books and manuscripts is provided in the attachment. The Library makes all efforts to acquire usefull books including rare books, reports, thesis, other knowledge resources to enrich its collection.

File Description	Documents
Upload relevant supporting document	View File

4.2.2 - Institution has subscription for e-Library resources Library has regular subscription for the following: e - journals e-books e-ShodhSindhu Shodhganga Databases		A. Any 4 or all of the above
File Description		Documents
Upload relevant supporting document		View File
4.2.3 - Annual expenditure for purchase of books/ e-books and subscription to journals/e-journals during the year (INR in Lakhs)		
116		
File Description		Documents
Upload the data template		View File
Upload relevant supporting document		View File
4.2.4 - Number of usage of library by teachers and students per day (foot falls and login data for online access)		
90		
File Description		Documents
Upload relevant supporting document		View File
4.3 - IT Infrastructure		
4.3.1 - Number of classrooms and seminar halls with ICT - enabled facilities such as LCD, smart board, Wi-Fi/LAN, audio video recording facilities during the year		
68		
File Description		Documents
Upload the data template		View File
Upload relevant supporting document		View File
4.3.2 - Institution has an IT policy, makes appropriate budgetary provision and updates its IT facilities including Wi-Fi facility		
<p>Pandit Deendayal Energy University - PDEU IT Infrastructure provides world-class computing, network and educational technology support for the academic and research community. PDEU has implemented the IT policy through document number : IT policy, Version 1.0 dated 1st September, 2013. IT policy of the university contains the fundamental for its daily operation and effectiveness. The current IT policy balances the need for the security and users to carry out their services. Annual recurring and capital IT budget is presented and approved every year for maintaining the existing IT infrastructure as well as Purchase the new/Updating of IT infrastructure for all the stockholders of PDEU.</p> <p>A state-of-the-art campus network with a 25+ km, 2.5 Gbps fibre optic backbone connects all the Institution and residence buildings, with a 24x7 internet facility through multiple service providers via Internet leased lines managed by 200+ cisco core switches (L2,L3), 150+ access point, 10000+ nodes for 9000+ users across PDEU campus. IT infra supports the teaching and learning process through, a Learning Management System, which has a wide range of learner-centric tools. In addition, a knowledge repository is maintained accessible via Intranet (LAN) , which has educational content like Coursera, edX, IBM Skill build, etc.</p>		
File Description		Documents
Upload relevant supporting document		View File
4.3.3 - Student - Computer ratio during the year		
Number of students	Number of Computers available to students for academic purposes	
6752	1317	
4.3.4 - Available bandwidth of internet connection in the Institution (Leased line)		• ≥ 1 GBPS
File Description		Documents
Upload relevant supporting document		View File
4.3.5 - Institution has the following Facilities for e-content development Media centre Audio visual centre Lecture Capturing System(LCS) Mixing equipment's and softwares for editing		A. All of the above
File Description		Documents
Upload relevant supporting document		View File
Upload the data template		View File
4.4 - Maintenance of Campus Infrastructure		
4.4.1 - Total expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component during the year		
1925.70		
File Description		Documents

Upload the data template	View File
Upload relevant supporting document	View File
4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.	
<p>The Campus Management Department (CMD) maintains the university's properties such as buildings, classrooms, laboratories, gardens, auditorium, cafeteria, hostels, sports facilities, gymnasiums, landscaping, health centre etc. The infrastructure facilities such as buildings, class rooms, laboratories, buildings, hostels, cafeteria, hostels, etc. are cleaned daily by 130 housekeeping staff under the supervision of the CMD. Housekeeping services are outsourced and available on campus 24 x 7. The University has laid down guidelines and structure for the maintenance of various type of equipments. For department-specific equipment, maintenance/repair is undertaken by the concerned laboratory in-charge as per the procedure/s laid down by the University from time to time. Major laboratory equipments are under Annual Maintenance Contract (AMC) for their regular preventive and corrective maintenance.</p> <p>Campus Surveillance Cameras, CCTVs, LAN, other security equipments are maintained through Central Information Technology (CIT) department and are maintained through annual maintenance contract (AMC). Teaching aids such as LCD Projectors, PA Systems, Laptops, Desktops, Printers, Wi-Fi etc. are maintained in campus by CIT staff. Fire Fighting equipments are installed in all facilities including building corridors, class-room, labs, hostels, offices, etc. and are regularly inspected and maintained by CMD. The gardens, tree plantations, landscaping etc. are maintained by the garden staff a under the supervision of the CMD.</p>	
File Description	Documents
Upload relevant supporting document	View File
STUDENT SUPPORT AND PROGRESSION	
5.1 - Student Support	
5.1.1 - Total number of students benefited by scholarships and free ships provided by the institution, Government and non-government agencies (NGOs) during the year (other than the students receiving scholarships under the government schemes for reserved categories)	
816	
File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File
5.1.2 - Total number of students benefited by career counselling and guidance for competitive examinations offered by the Institution during the year	
2492	
File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File
5.1.3 - Following Capacity development and skills enhancement initiatives are taken by the institution Soft skills Language and communication skills Life skills (Yoga, physical fitness, health and hygiene) Awareness of trends in technology	A. All of the above
File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File
5.1.4 - The Institution adopts the following for redressal of student grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organisation wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees	• All of the above
File Description	Documents
Upload relevant supporting document	View File
5.2 - Student Progression	
5.2.1 - Number of students qualifying in state/ national/ international level examinations during the year (eg:NET/SLET/GATE/GMAT/CAT/ GRE/TOEFL/Civil Services/State government examinations)	
5.2.1.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year	
156	
File Description	Documents
Upload the data template	View File

Upload relevant supporting document	View File
5.2.2 - Total number of placement of outgoing students during the year	
418	
File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File
5.2.3 - Number of recently graduated students who have progressed to higher education (previous graduating batch) during the year	
133	
File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File
5.3 - Student Participation and Activities	
5.3.1 - Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter - university/state/national/international events (award for a team event should be counted as one) during the year	
58	
File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File
5.3.2 - Presence of Student Council and its activities for institutional development and student welfare	
<p>Pandit Deendayal Energy University maintains a pristine environment with modern technologies to enhance the spirit and energy level of all learners, development of life skills, leadership and inspire students to optimize their learning efforts. Extra-curricular activities take place through the Office of Student Activities, Involvement and Leadership (OSAIL) which works with an objective of providing students an opportunity to develop their interests and leadership qualities. The activities at the OSAIL are majorly driven by Student Clubs, Student Chapters of Professional Societies and are categorized as:-</p> <ul style="list-style-type: none"> • Social and Cultural • Science and Technical and • Sports • Student Chapters <p>A student committee is formed where President, Vice Presidents, Member Secretary and Treasurer Position are nominated for each of the said category and faculty in-charge is assigned. Under the mentorship of OSAIL, the students ideate and execute events, run their organizations as an autonomous body and with an added advantage they learn team work, financial planning management, time management, marketing promotions, communication and negotiation skills etc.</p> <p>Student works through chapters and clubs, which encompasses Intra-University, Inter University and National level events in fields of art, culture, language, media, sports, science technology etc. The activities at OSAIL are largely driven by Student Clubs, Student Chapters of professional societies and each focusing on different aspects of art, culture, or science, theatre, film archive, robotics, and photography. Many Clubs host exciting programs, lectures, classes and activities for students throughout the year. FLARE Annual Cultural festival, Tesseract - Annual Technical festival and Petrocup - Annual Sports festival are gaining popularity among students of other reputed institutes and received good participation during inter college events. Students are also present in various administrative committees such as anti-ragging committee, canteen committee, women cell etc.</p>	
File Description	Documents
Upload relevant supporting document	View File
5.3.3 - Number of sports and cultural events / competitions organised by the institution during the year	
206	
File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File
5.4 - Alumni Engagement	
5.4.1 - The Alumni Association/Chapters (registered and functional)contributes significantly to the development of the institution through financial and other support services during the year	
<p>The Pandit Deendayal Energy University formerly known as Pandit Deendayal Petroleum University has very illustrious alumni across the globe including leading industrialist to entrepreneurs. The university has taken varied initiatives to stay connected with its wide alumni base since graduation of the first batch. Though the university has very strong association with its alumni, the "PDEU Alumni Association" is formed in 2021. The structure, regulations and norms of the association has been design and approved in the same year.</p>	

PDEU Alumni are contributing to the university academically, student development activities and to carry out research. Alumni have contributed immensely as members of Board of Studies, delivering Guest lectures, offering Intern-ships, assisting in Placement, organizing Industry visits and also assisting students to get admissions into reputed Universities Abroad. PDEU Alumni are providing mentoring services to the students of the University by holding one to one interaction with the students, alumni talk, interactive sessions etc. They have become influential in making the students understand the industry-institute gaps, career opportunities, skill set required by industries for placement and also guiding students to plan and shapeup their own career in right direction. Various alumni meets are organized every year. The alumni are updated with university development by sharing university news letter and annual reports.

File Description	Documents
Upload relevant supporting document	View File

5.4.2 - Alumni contribution during the year (INR in Lakhs) E. <1Lakhs

File Description	Documents
Upload relevant supporting document	No File Uploaded

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The institution has a clearly stated vision and mission which are reflected in its academic and administrative governance

Vision

"To emerge as a world class Institution of Excellence in Energy Education, Research and Innovation which will prepare and sensitize the youth and ultimately the society for radical yet sustainable societal transformation."

Mission

The mission of the University is as follows:

1. Undertake unique obligation for Education in Energy Engineering and Management with special responsibilities in domain specific aspects of Energy & Infrastructure.
2. Seek to nurture students of extraordinary motivation and ability and prepare them for life-long learning and leadership in an increasingly knowledge driven world.
3. Envisage to establish institutes of excellence in education, competitive edge in research and real time relevance with futuristic thrusts in offering of programmes and undertaking of activities and projects.

Detailed Objectives

Pandit Deendayal Energy University has been promoted by Government, Industry and Energy & Petrochemical Department to create a world class University in energy education and research with special focus on the oil and gas sector. The University addresses the need for trained and specialized human resource in the domains of engineering, management and humanities.

It intends to expand the opportunities for students and professionals to develop an intellectual knowledge base with leadership skills to compete in the global arena. This objective is being addressed through a number of specialized and well-planned undergraduate and post-graduate education programmes and intensive research initiatives.

Objectives of the University are as follows:-

- To create centers and institutions of excellence for imparting state of the art education, training and research in the fields of science, technology and management in general and in relation to the domains of oil, gas and energy in particular.
- To create capabilities for development of knowledge, skills and competencies as a core academic goal
- To create capabilities for upgrading the infrastructure to global standards for education, training and research in the areas related to energy, engineering, management and liberal studies.
- To develop patterns of teaching and training at various levels of education accomplishment so as to set a high standard of education in energy, engineering, management and liberal studies.
- To function as a leading resource center for knowledge management and entrepreneurship development in the areas of energy, engineering, management and liberal studies.
- To provide inter-relationship for national and global participation in the field of energy, engineering, management and liberal studies.
- To establish close linkages with industries to make teaching, training and research at the University relevant to the needs of the society at national and global levels.

Weblink: <https://www.pdpu.ac.in/vision-mssion.html>

File Description	Documents
Upload relevant supporting document	View File

6.1.2 - The effective leadership is reflected in various institutional practices such as decentralization and participative management

- The Board of Governors (BOG) and Finance Committee (FC) offer its inputs on all broad areas of development and internal quality enhancement.
- The leadership of the university identifies the needs at departmental, schools and university level to emerge as global level/repute institution.
- The Board of Governors has facilitated with a Standing Committee to oversee, guide and support the university in policy implementation.

- All statutory bodies have autonomy to implement developmental initiatives in the line of vision and mission of the university.
- The Faculty Members are involved to deliberate and recommend on Academic affairs through the Board of Studies, Departmental IQAC.
- The leadership has advised the university to opt for ISO certification developing the culture of excellence through standardized processes for academics and administration. The leadership monitors IQAC to ensure quality of processes.
- Admission process through the Faculty and Staff – this includes the development of an Online Application System, Merit Generation, Counselling, and other Admission Processes.
- Every faculty has been assigned the role of adviser to the specified group of students (@30 students) to address academic & other adjust mental concerns of the students.
- Head of Department/School Director convenes the meeting of their faculty and staff to review the departmental activities (course development, class timetable, examinations, Monitoring of general affairs, future planning) at least twice a semester.
- Co-curricular events like Technical Seminar, Workshops, and Conclaves are organized by the subject related Faculty Members, Admin Staff, and the Students.
- The extra-curricular activities are planned and managed through the Faculty, Staff, and Students.
- The Faculty Members are involved to deliberate and recommend on Academic affairs through the Board of Studies, Faculty of Studies Departmental/School and IQAC.
- Director General meets with respective faculty, students and other stakeholders.
- Director, Deans and Head of the Department meet with respective faculty, students, Alumni, Business and Industrial houses and R&D organization and other stakeholders
- Faculty interaction with students and their parents for taking inputs in the form of feedback.
- Guidance of the leadership helps in obtaining the resources and judiciously utilizing and using all resources at optimum level.
- The resources requirements are built in to the budgets and the same are discussed in Finance Committee Meeting for its allocation.
- Academic requirements of Schools are discussed in Academic Council Meetings.
- Central bodies of University like Office of International Relations, Office of Research and Development, Office of Student Activity, Involvement and Leadership work with all Schools and Departments after discussing with them their requirements and strategies related to Internationalization and research.

File Description	Documents
Upload relevant supporting document	View File

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic plan is effectively deployed

Strategic plan

The University has positioned itself to launch several initiatives to enhance quality in academics and research. Accreditation, Ranking and capacity building were on top among those strategic deployment.

A. Transformation Education:

To adopt to this digital transformation empowering students with experiential learning through the following initiatives:

B. Skill training and Skill based courses

1. Swayam Courses
2. Curriculum Industry 4.0

1. Translational Research: This will include following verticals for Industry 4.0 Campus:

- Additive Manufacturing
- Cyber-Physical Systems
- Big-Data-Driven Quality Control
- Robot-Assisted Production
- Solar PV Panel Product line: 50MW
- Next Generation Laboratory
- Energy Storage
- Urja Satellite

Deployment

- Ranked 177th position among engineering institutions, and 74th position among management institutions, in NIRF.
- Four Star in the State Institutional Rating Framework, and ranked on 4th position in the State.
- Built up the Translational Research Centre admeasuring 8750 sq. meter at Rs. 50 Crores
- Established 3D metal printing facility.
- New academic programs in Computer Engineering, Information and Communication Technology, Electronics and Communications, Automobile, Manufacturing Technology, Transportation Engineering, Petroleum Exploration, Data Science, Cyber Security, Energy and Environment.
- Offered Direct Admission of Students Abroad, Study in India program for International Student

File Description	Documents
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6.2.2 - The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, etc.

Sr. No.

Board of Governors

1

Considered the foundation laying of the following facilities through the Prime Minister of India at the time of the Convocation programme on 21/11/2020:

1. 45 Mw Production Plant of Mon crystalline Solar Photo Voltaic Panel
2. Technology Business Incubation, supported by DST, Govt. of India
3. Centre of Excellence on Water Technology
4. Translational Research Centre - TREC
5. Sports Complex, supported by Sports Authority of Gujarat, Govt. of Gujarat

(Meeting: : 21/11/2020) Implemented.

2

Advised the faculty to make the University proud for Gujarat and India in pursuit of Industry 4.0

(Meeting: 21/11/2020) Implemented.

3

Approved the curriculum revision for more than 1250 no. of courses spanning over different academic programs of the University. The Board appreciated that 40 no. of patterns have been filed during the Covid lockdown period.

(Meeting: 21/11/2020) Implemented.

Academic Council

4

Ratified the approvals for introducing:

1. Part time M. Tech. (Petro. Engg.) Program.
2. M. Tech. (GeoTech. & GeoEnv.)
3. B. Tech. (Petro. Chem.)
4. Two majors, i.e. Indic Studies and Digital Humanities for B. A. (Hons.) program

w. e. f. the admission batch 2021.

1. Analytics Specialization to MBA students

(Meeting: 16/11/2021) Implemented.

5

Approved 112 no. of courses as Ph. D. course work in different disciplines.

(Meeting: 16/11/2021) Implemented.

6

Directed to establish Centre of Excellence in Critical Thinking, to the School of Liberal Studies.

(Meeting: 16/11/2021) In process.

7

Advised to introduce a M. Tech. program in Machine Learning & Data Analytics. (Meeting: 16/11/2021) In process.

Standing Committee

8

Directed to ensure adequate requirement of infrastructure and faculty, while proposing a new admission branch and/or increase of intake.

(Meeting: 05/03/2021) Implemented.

9

Approved to introduce a new B. Tech. program in Petrochemical Engg..

(Meeting: 05/03/2021) Implemented.

10

Approved to increase admission intake by 60 seats in B. Tech. (Computer Engg.).

(Meeting: 05/03/2021) Implemented.

11

Directed to appropriate the scholarship scheme to attract the meritorious students facing adverse economic condition.

(Meeting: 05/03/2021) Implemented.

12

Approved the setting up of Solar PV Panel Product Line Development and of Advanced Manufacturing Technology Center (AMTC) as a part of the setting up of TREC (Translational Research Centre).

(Meeting: 28/10/2021) Implemented.

13

Approved:

1. Upgradation of the IT infrastructure at TREC - Translational Research Centre, through the procurement of Server / Client for VDI Base with VMware for up- gradation of ICT / CE Labs at the cost of Rs.2.27 crores. It will also include the procurement of Server HCI and VMware for PDEU.AC.IN Domain.
2. The procurement of HCI solution with VMware for 3 servers and allocate a budget of Rs. 69 lakhs (excluding taxes) for the same. This includes also the HCI solution and the 42U Smart Rack for storage of Hardware with an approx. costing of Rs. 11 lakhs (excluding taxes) and to issue limited tenders to the OEMs.

(Meeting: 28/10/2021) Implemented.

14

Recommended to propose to the Board of Governors for re-organization of the academic Department/School:

- School of Energy Technology (SET): Chemical, Electrical Engineering, Petroleum and Petrochemicals, Dept. of Nuclear Energy, Solar energy, Physics, Chemistry, and Solar Research Development Center (SRDC).
- School of Computing and Technology (SoCT): Computer Science, ICT, Civil, Automobile, Mechanical, Electronics & Communication Engineering, and also the Department of Mathematics.

(Meeting: 28/10/2021) (will be on agenda list)

15

Approved to project following new academic programs to the State Government as a part of its scheme for Centre of Excellence:

Starting Academic programs

Year

1. M. Tech. (Machine Learning & Data Analytics)
2. B. A. (Hons.) (Digital Humanities) 2022-23 iii. B. A. (Hons.) (Indic Studies)

iv. Integrated 5-year program - Petroleum Tech. & Management

2023-24 i. M. Sc. (Tech.) (Earth Sciences)

ii. B. Tech. (Energy Engg.)

2024-25 M. Tech. (Advanced Mfg. Tech.) 2025-26 i. M. Tech. (Structural Engg.)

ii. M. Tech. (Gas Engg.)

(Meeting: 28/10/2021) (Conveyed to the Govt.)

16

Approved the proposal of hiring premises at GIFT City for PDEU, for Fintech Startups, International Relations, and PG programme in Finance with the following viewpoints:

1. To include the Sun Set clause in the proposal along with the rigorous review of the proposal.
2. Handholding with HDFC Bank for Fintech Startups, with PDEU being the accelerator and availing the premises on rental basis at GIFT City.

(Meeting: 28/10/2021) In process.

17

Approved to enhance the total annual income to Rs.10.0 Lakhs for all Merit cum Means Scholarship schemes, along with the revision of Rank Eligibility

(Meeting: 28/10/2021) Implemented.

File Description	Documents
Upload relevant supporting document	View File

6.2.3 - Institution Implements e-governance in its areas of operations

<p>6.2.3.1 - e-governance is implemented covering following areas of operation</p> <ol style="list-style-type: none"> 1. Administration 2. Finance and Accounts 3. Student Admission and Support 4. Examination 	<p>A. All of the above</p>
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File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has a performance appraisal system, promotional avenues and effective welfare measures for teaching and non-teaching staff

- The University has a transparent and meritocratic appraisal system for both, the faculties as well as the staff. Each year at the beginning of the appraisal period, the goalsheets are finalized after an exhaustive exercise, which become the basis for the appraisal framework at the end of the appraisal period.
- University accepts their applications against various posts and positions in reference to the advertisement published. The eligibility for the same is based on the following:
 - Parameter 1: Total Post Ph.D Experience
 - Parameter 2: Service Record
 - Parameter 3: Tenure at the University
 - Implementation of the 7th Pay Structure for the regular employees of the University.
- Apart from the above, the Faculty can avail Cumulative Professional Development Allowance is granted worth Rs. 1 Lac per year that can be accumulated for a period of 3
- Similarly, the Staff can avail Training Expenditure worth Rs. 15,000 per year
- The Employees are also given Medical Insurance worth Rs. 5,00,000 per year along with Accidental Insurance worth Rs. 20,00,000. Corona Kawacch worth Rs.5,00,000 is given over and above the Medical Insurance .
- The University also gives Maternity Leaves (22 weeks) and Paternity Leaves (10 days) for its employees.
- Links:

Faculty: <http://apas.pdpu.ac.in/apas/>

Staff: <https://www.tcsion.com/dotcom/TCSSMB/Login/login.html>

File Description	Documents
Upload relevant supporting document	View File

6.3.2 - Total number of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

135

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

6.3.3 - Number of professional development / administrative training Programmes organized by the institution for teaching and non-teaching staff during the year

3

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

6.3.4 - Total number of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the year(Professional Development Programmes, Orientation / Induction Programmes Refresher Course, Short Term Course)

253

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institutional strategies for mobilisation of funds and the optimal utilisation of resources

Resource Mobilization:

PDEU being self-financed university, follows financial prudence and has adopted best practices from public universities and corporate governance under the framework of PDPU Act, 2007. The finance committee, a statutory body of the University, oversees the financial planning / mobilization and utilization of the funds.

1. Corpus Funds (Rs. 193 Crores)

- Pandit Deendayal Energy University (PDEU) has been established by GERMI through PDPU Act 2007; the Act of the Gujarat Legislature on 4th April 2007. GERMI as a promoter for the university provided the initial capital.
- Reliance Foundation has committed to contribute Rs. 150 crores over a period of ten years through GERMI for PDPU, as an endowment fund that will go towards further strengthening PDEU. Since 2016-17, Reliance Foundation has contributed aggregate of Rs. 82.50 crores towards their commitment to PDEU.

2. Scholarship Funds (Rs. 25 Crores)

- The University have presidential merit based and merit cum means scholarship among the students. Total scholarship fund from corpus as on 31st March, 2021 is Rs. 13.47 Crores and Excess NRI Fees amounts to Rs. 11.79 Crores.

3. Revenue from Operations (Rs. 127 Crores)

- The university's professional courses fees are governed by Fees Regulatory Committee.
- The annual revenues from fees amounts to Rs. 116.24 Crores. This primarily contributes towards the Academic Research and maintenance expenses.
- University is actively working on consultancy based projects and internationalization of student related courses to improve the revenue streams.
- The University is mobilizing resources also through Management Development Programmes, Consulting and Testing Services.

4. Research and Other Funding (Rs. 19.39 Crores)

- The Faculties of the University are encouraged through our research initiative programs to mobilize resources for research activities and strengthening the University facilities by applying to various funding agencies such as DST, UGC, GUJCOST, SERB, ICSSR, etc.
- PDEU has received research grants amounting to Rs.19.39 Crores for 41 Projects in last 5 years.
- For this, the university has following recognition:
 - Scientific and Industrial Research Organization (SIRO) by Government of India and Ministry of Science and Technology.
 - Scientific Research Institution under section 35(1)(ii) by Ministry of Finance and Government of India.
 - Exemption under section 80G as per Income tax Act.

Optimum Utilization:

The university has a well-defined mechanism to monitor utilization of financial resources. The Finance Committee, oversees the financial planning & utilization of the funds. The key processes for the same are:

- Preparing annual budgets as per the University's budgetary guidelines and processes.
- Allocation of funds for teaching-learning practices that include Orientation Programmes, Workshops, inter-disciplinary activities, training programmes, etc.
- Expenditure is made as per budget provision approved by the Finance Committee and the Board of Management.
- Periodic internal audits to ensure compliance with the University's financial policies.
- Expenditure control through committees such as procurement committee for capital procurements, building works committee for infrastructure development and purchase committee for all recurring purchases.

File Description	Documents
Upload relevant supporting document	View File

6.4.2 - Funds / Grants received from government bodies during the year for development and maintenance of infrastructure (not covered under Criteria III and V) (INR in Lakhs)

0

File Description	Documents
Upload the data template	No File Uploaded
Upload relevant supporting document	No File Uploaded

6.4.3 - Funds / Grants received from non-government bodies, individuals, philanthropists during the year for development and maintenance of infrastructure (not covered under Criteria III and V)(INR in Lakhs)

1000

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

6.4.4 - Institution conducts internal and external financial audits regularly

Statutory Auditor:

- The Finance Committee has appointed M/s /s P. R. Shah & Associates as statutory auditor of the university. M/s /s P. R. Shah & Associates is a renowned CA firm with experience of more than 40 years in the field of statutory audit and Taxation.

- The audit takes into cognizance the various verticals of operation and the legislative framework the university operates in. The audit program is based on the auditor's judgement and assessment of risk and encompasses checks to verify that internal controls are commensurate with the size of the institution, the distribution of resources across verticals, the nature of its activities and in addition to its own examination, the external auditor takes into account references made by the Finance Committee.
- The consolidated annual accounts, aggregating all the school accounts, of the university consisting of the Income and Expenditure Account and the Balance Sheet will be audited by the auditors appointed by the management and the same will be placed before the Finance Committee.

o Internal Auditor:

- The Finance Committee has appointed Manubhai and Shah LLP as internal auditors of the University. Manubhai and Shah LLP is a renowned CA firm with experience of more than 50 years in field of internal audit. They conduct periodical internal and concurrent audit and report the findings to the Finance Committee.
- Interim observations are forwarded to Finance Team for corrective actions and implementation. The university finance office replies to the queries of the internal audit report and updates the processes based on recommendations made by the internal audit department.
- The scope of internal audit is as under:

1. Verification of adequacy and accounting treatment of various sources of operating revenue and expenditure.
2. Internal Audit Team conduct 100% vouching and checks all the transactions against the set procedures and guidelines under the university policies and ensures legal compliance of records.
3. Review of accounting policies adopted by the University and its compliance.
4. Verification of capital purchases and approval, purchase of material of revenue in nature and various services received under contract / agreements.
5. Verification of payment of dues under TDS / TCS / GST/ PF /ESICS and other statutory compliance.

Further, the University has established the practice of Pre-audit by an independent CA firm for all transactions above Rs. 10 Lakhs.

The university also has a full-fledged Accounts department headed by the Finance Officer. The financial statements are prepared in accordance with Generally Accepted Accounting Principles.

The financials of the University and audit reports are placed on the University Website.

File Description	Documents
Upload relevant supporting document	View File

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 by constantly reviewing the teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals

The Internal Quality Assurance Cell (IQAC) has been engaged in planning, guiding and monitoring Quality Assurance (QA) and Quality Enhancement (QE) activities in curriculum design, teaching-learning process, research, ranking & accreditation, audits, feedback system etc. The university quality system is made operational under the IQAC with representatives available at different Schools, and Departments. If faculty/staff recommends for the quality concerns, it is reviewed by the department, school and university for its implementation. This approach brings a sense of involvement for continuous quest of quality assurance. Seminars, conferences and workshops are conducted involving in house experts and also external experts from time to time that greatly contribute in raising quality consciousness. The IQAC plays role in facilitating institutional rankings, assessment and accreditation exercises.

Improving Teaching-Learning Process:

- The Outcome based Education (OBE) and Course Outcomes (CO's) are prepared following blooms taxonomy for all programs at university.
- Choice Based Credit System (CBCS) has been introduced in all UG and PG Programs.
- Benchmarking and internal quality checks of teaching-learning processes by introducing course file preparation for all courses, continuous evaluation of student learning, mapping Course outcomes with Program outcomes and regular review of CO's and PO's attainment.
- Conduct of student feedback on academic activities every semester, review of feedback and corrective action report preparation to improve teaching-learning processes.
- Involving employers and alumni for their feedback on course curriculum, academic activities and program outcomes.

Establishing in-house Data Information Centre (DIC) for better Ranking, Rating and Accreditation

- IQAC established in-house Data Information Centre (DIC) for centralized storing of university data, and analysis to map with benchmark and to participation in various raking and accreditation process such as NIRF, GSIRRF, ARIIA, NBA etc.

Strengthening Research through quality initiatives and identifying major thrust areas:

- Student Research Project (SRP) scheme has been evolved to motivate even to undertake high-end research and to promote IP culture at university.
- Research Symposium for PhD research scholars, IPR awareness programs, mentoring faculty members to write project proposal to government and private organizations are major initiatives to build research culture.
- In view of Global significance, IQAC has identified nine major thrust areas which are trans-disciplinary/national importance: Energy and Environment, Carbon capture, Water desalination

and waste water treatment, Renewable energy, Nanotechnology, Additive manufacturing, Cyber security.

- Annual review of Academic and Research performance of all the departments/centers.

File Description	Documents
Upload relevant supporting document	View File

6.5.2 - Institution has adopted the following for Quality assurance Academic Administrative Audit (AAA) and follow up action taken Confernces, Seminars, Workshops on quality conducted Collaborative quality initiatives with other institution(s) Orientation programme on quality issues for teachers and studens Participation in NIRF Any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)	A. Any 5 or all of the above
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File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

6.5.3 - Incremental improvements made for the preceding during the year with regard to quality (in case of first cycle) Post accreditation quality initiatives(second and subsequent cycles)

1. Additional Scholarships for Students:

To encourage the meritorious students and also to support financially weaker students of the society and also to promote education among the girl students by introducing following additional scholarships:

- Merit Scholarship: Half Tuition Fee Waiver (w.e.f. 1st Semester): For SC & ST Category Students pursuing B. Tech. programme
- Merit Scholarship: Half Tuition Fee Waiver (w.e.f. 1st Semester): For Female students
- Merit-cum-Means Scholarship: Half Tuition Fee Waiver (w.e.f. 4th Semester) - For Diploma to Degree Engg. students.
- Interest Subsidy for Economically Weaker Section students.

2. Introduction of New Programs:

To meet with industry requirement, the University has expanded its horizon in the domain of Engineering and Humanity by introducing following programs:

New Program Introduced in Last Five Years

Programme name

Programme Specialization

B. Tech.

Automobile Engineering

B. Tech.

Electronics & Communication Engineering

M. Tech.

Civil Engineering (Transportation Engineering)

M. Tech.

Cyber Security

M. Tech.

Data Sciences

M. Tech.

Energy and Environmental Management

M. Tech.

Mechanical Engineering (Manufacturing Engineering)

M. Tech.

Mechanical Engineering (Thermal Engineering)

M. Tech.

Petroleum Technology (Exploration)

M.A.

Psychology

M.A.

Economics

M.A.

Mass Communication

M.Sc.

Chemistry

M.Sc.

Mathematics

M.Sc.

Physics

3. Internationalization of Education:

The University has established Office of International Relations (OIR) to develop global professionals by providing international educational exchange to University students and to create visibility of University in global educational scenario by collaborating with other reputed institutions and student exchange programs.

Various programs by OIR were started with an objective to provide international orientation of educational programs and to explore international cooperation in education and research in association with international universities and industry experts. The major initiatives are:

- Study in India Program (SIP)
- Semester Exchange & Abroad Program
- Faculty with Foreign Exposure
- International Admission
- Collaboration with leading Universities in USA, Australia and Europe.

File Description	Documents
Upload relevant supporting document	View File

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 during the year

Various initiatives related to gender equity and sensitization are followed through the curricular and co-curricular activities and the facilities for women on campus. A duly constituted Women's Cell takes care of women empowerment, safety and equality.

1. Women's Cell - PDEU

The Women's Cell has been established to ensure and uphold the dignity of women at work. The University aims to provide safe working and learning campus life for staff and students free from gender discrimination and sexual harassment.

2. CENTRE FOR COUNSELING SERVICES

The Centre for Counseling Services at the University provides mental health-centered consultation to students, faculty, and staff. CCS also works to educate the campus community about social and psychological issues and help students who are struggling with personal, academic, or social concerns through therapeutic intervention to foster positive mental health.

3. Day Care Centre for employees' children

With an objective to provide safe, better and secure environment with quality caregivers for the children of employee parents, the University started the daycare facility in May 2019 on the Campus. With this facility, the employee parents having young children, can work with peace of mind of knowing their children are safe on the campus.

COMMON ROOM FACILITY

To facilitate healthy ecosystem campus has established comfortable common room facility for the students.

File Description	Documents
Upload relevant supporting document	View File
Annual gender sensitization action plan(s)	Nil
Specific facilities provided for women in terms of: a. Safety and security b. Counseling c. Common rooms d. Daycare Centre e. Any other relevant information	Nil

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment

A. Any 4 or All of the above

File Description	Documents

Upload relevant supporting document	View File
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7.1.3 - Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management

Solid waste management

All the solid waste generated on the campus is being segregated to plastic and paper waste (biodegradable and non-biodegradable).

Liquid waste management and recycling

PDEU has developed a centralized system to collect all the waste water generated in the campus to the treatment facility located backside of the student canteen. The landscape area of the campus is about 98 acres. PDEU is equipped with two Sewerage Treatment Plants each with capacity of treating 300 KLD. In addition to it, there are twelve numbers of percolation wells with total capacity of 20 KL/hr at different locations.

Biomedical waste management

Bio-medical waste is not generally produced in the campus. However after the pandemic, use of mask and gloves have gone up, and the disposal facility for the same has been created over different locations on the campus.

E-waste management

Any E-waste, such as monitors, keyboards, mouse, hard disk, PC, circuit board, equipment, etc. is disposed to local vendors from time to time.

Hazardous chemicals waste management

Due care is taken to dispose crude oil (generated in very less quantity) being used as hazardous substance. The laboratories are set-up keeping safety in mind. Fire prevention systems along with automated emergency retardant systems are incorporated across the campus.

File Description	Documents
Upload relevant supporting document	View File

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus	A. Any 4 or all of the above
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File Description	Documents
Upload relevant supporting document	View File

7.1.5 - Green campus initiatives include	
7.1.5.1 - The institutional initiatives for greening the campus are as follows: <ol style="list-style-type: none"> 1. Restricted entry of automobiles 2. Use of bicycles/ Battery-powered vehicles 3. Pedestrian-friendly pathways 4. Ban on use of plastic 5. Landscaping 	A. Any 4 or All of the above

File Description	Documents
Upload relevant supporting document	View File

7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution	
7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following: <ol style="list-style-type: none"> 1. Green audit 2. Energy audit 3. Environment audit 4. Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities 	A. Any 4 or all of the above

File Description	Documents
Upload relevant supporting document	View File

7.1.7 - The Institution has a disabled-friendly and barrier-free environment Ramps/lifts for easy access to classrooms and centres. Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information:	A. Any 4 or all of the above
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Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.	
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File Description	Documents
Upload relevant supporting document	View File

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words)

PDEU's mission is to promote student achievement and preparation for global competitiveness by fostering educational excellence and ensuring equal access. Integral to furthering that mission is supporting efforts to create diverse and welcoming campus communities for all students. Toward that end, PDEU has attracted and admitted students from various backgrounds and experiences, and has also supported and retained these students once on campus. A culturally inclusive environment requires mutual respect, effective relationships, clear communication, explicit understandings about expectations and critical self-reflection. An inclusive environment on campus contributes to making PDEU a safe, enjoyable and productive place for everyone in the university community, and can enhance our interactions with the wider community.

University has taken many initiative in this direction by recruiting faculty members, staff, research scholars and students from different regions to enrich this diversity.

Both national and International Students and scholars at UG, PG & Ph.D. levels bring the required multi- state and multi-national cultural diversity by enriching the ethos, language, cuisines, festival, awareness as a part of peer-group learning. Likewise throughout the Year University organizes many events to promote an inclusive environment, harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities.

File Description	Documents
Upload relevant supporting document	View File

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

The University facilitates an ecosystem for continuous awareness of constitutional obligations among students, faculty and staff members. Multiple programmes including regulations in service book and student academic guidelines are listed. University also ensures periodic orientation programmes for faculty and staff and also PhD, PG and UG students.

"All employees are expected to behave according to the ideals of national integration showing love, concern, respect to all without any discrimination whatsoever of caste. Creed or community. Any act or speech against this rule shall be considered as a serious breach of discipline and shall invite strict disciplinary action.

Every employee shall strive in general to instill in the students under his/her care a high sense of values. Social conscientiousness, and pride in their Alma Mater and loyalty to the Country. It is the sacred duty of all the employees to work for the intellectual, moral, social and physical development of all students." PDPU General Service Rules

Tolerance, cultural awareness and community services is encouraged with the spirit of inclusiveness organised OSAIL, Women's Cell, Centre for Counselling, Human Resource Dept. 100 +event /seminar/guest lectures and workshop have been organised for faculty, staff and students.

7.1.10 - The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard. The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on Code of Conduct are organized

All of the above

File Description	Documents
Upload relevant supporting document	View File

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

Efforts of the university in celebrating/organizing national and International commemorative days, events and festivals during the last five years have ensured the required sensitization for all the stakeholders.

The Office of Student Activities, Involvement & Leadership (OSAIL) complements students' academic experiences by providing services and resources that engage students in creating campus culture through social, cultural, intellectual, spiritual, athletic, recreational, artistic, political, and service opportunities.

The Office supports the student organizations that abound at PDEU. Opportunities are provided for student participation and leadership experiences in a variety of officially recognized clubs and organizations. Currently it mentors and funds around 35+ student clubs which conducts around 250+ events throughout the academic year. The staff is committed to delivering quality advising, resource materials, leadership development opportunities, and administrative support services to impact students' growth and development and enhance the success of each student organization.

Apart from these PDEU organizes 2 other major commemorative events as under:

1. Prof. Kartic Khilar Memorial Lecture
2. Pandit Deendayal Memorial Lecture Series @ PDEU

Prof. Kartic Khilar Memorial Lecture

In the 14 years of our journey, PDEU has achieved several benchmarks and is marching towards many more such accolades. Every successful achievement had a group of people who envisioned, worked hard and bestowed their experience in the development of PDEU. One such eminent personality was late Director General Prof. Kartic C. Khilar who contributed in shaping the Academic and Research Culture of PDEU during his tenure and facilitated the University in every aspect. Prof. Khilar passed away on 13th November, 2009. In the souvenir of Prof. Kartic Khilar, university organizes a lecture series in his memory.

Pandit Deendayal Memorial Lecture Series @ PDEU

Pandit Deendayal Memorial Lecture series-a public event- is organized at Pandit Deendayal Energy University, Gandhinagar every year on 25th September, the birth anniversary of Shri Deendayal Upadhyay, Social Activist, Politician and Author, who was the founder of political movement Jan Sangh. Over the years, luminaries from different walks of life have graced the occasion and have spoken on a variety of topics.

Link for 2021 edition of Pandit Deendayal Memorial lecture

<https://www.youtube.com/watch?v=-qpoKrHnBJM>

File Description	Documents
Upload relevant supporting document	View File

7.2 - Best Practices

7.2.1 - Describe one best practice successfully implemented by the Institution as per NAAC format provided in the Manual

At the university, several innovative and developmental initiatives and practices have been implemented. Of many such initiatives and practices, the following is mentioned considering the pandemic situation

Title of the Practice: Effective Online/Hybrid Teaching Learning during Pandemic situation

Objective of the Practice: To provide effective teaching learning support during Pandemic.

For Lecture delivery, the faculty adopted Synchronous (live) lectures and tutorials with recording made available to the student after the class. The focus was enhancing learning experiences despite the limitation of in person presence, designing learning assessments and approaches to innovative TL methods. Teaching pedagogy was reviewed and revamped to bring the concentration and attention during online learning using case studies discussion, focused group discussions using breakout rooms etc by the faculty members.

The Practice: At the University, Online/ Hybrid class from campus has been facilitated with the required infrastructure facility. All the classrooms have been equipped and integrated for hybrid learning since the first unlock during the pandemic and faculty members conducted the classes from campus while students attended the same from home through Microsoft teams/google classroom. Over the last one year over 11,200 lectures have been administered over hybrid mode from the classroom at the campus. NPTEL/SWAYAM University allowed the credit transfer from SWAYAM courses and as of now 400 plus students have completed the courses and availed credit transfer. Coursera: 3000 plus students completed more than 22000 certificate courses through coursera in the areas of business, computer science and data science.

The Context: The University provided course access during the difficult time of pandemic to all the students along with NPTEL/SWAYAM courses for credit transfer.

Evidence of Success: For A.Y. 2020-21, the university started the semester and conducted all the examinations (____) successfully as per the academic calendar which enabled timely student progression for both PG and UG programme. Online video _____

Problems encountered and resources required : Mass training and demo session required for smooth adaptation of students, staff and faculty particularly for conducting online examination

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

Energy, Industry 4.0 & Internationalization are important distinctive areas.

Few of Start-Ups incubated:

1. Imagine Powertree Private Limited
2. Prayogik Energy Private Limited
3. Rhyno Wheels Private Limited
4. Pi Green Innovations Private Limited
5. PV Recycler
6. Syphon Energies

Link: <http://iic.pdpu.ac.in/en/incubatee-startups/view>

Laser Metal 3D Printing Facility is Atmanirbhar Bharat initiative in energy Sector.

Internationalization

The University has more than 280 students from approx. 38 countries and is partner of Study in India Program-SIP and Study in Gujarat initiative of Government. SIP is 2-6 weeks module-based program catering foreign students & faculties. It is interdisciplinary, demonstrating Indian religions and cultures. Nine SIPs conducted, 100+ students & 11 Faculty benefitted.

University facilitates one/two months International Exchange Program-IEP since 2010 with foreign Universities every year. IEP is designed for global exposure academically, and culturally. 30 IEPs conducted, 740 students & 48 Faculty benefitted.

Sixteen exchange/abroad programs conducted, 27 students benefitted. Through travel grant, 950+ students presented papers in countries like UK, Singapore, Dubai, USA, China, Sweden, Canada, Germany, etc, which increased visibility of University, Enhanced Students' Profile, Exposure to International Education, opportunity for Semester Abroad, Masters' abroad, etc. - benefitted 15+ students.

Hosted 15+ international faculty from USA, Canada, Singapore, Israel, etc.

7.3.2 - Plan of action for the next academic year

It was decided at the meeting of IQAC to work out on the following points as a part of the Action Plan for the next academic year:

1. Academic Calendar of the academic programs running at the University.
2. To decide the evaluation pattern same as followed in the previous year considering the Covid19 situation and Online examination.
3. To prepare for data submission to NIRF (National Institutional Ranking Framework) and GSIRF (Gujarat State Institutional Rating Framework) 2022.
4. To update the Self-Assessment Report (SAR) for NBA Accreditation process applied for UG Programmes in Civil Engg., Chemical Engg., and Electrical Engg..
5. To request the President of the University to invite Union Minister - may be MoPNG as Chief Guest for the next Convocation to be held in December/January.
6. To undertake tendering process for building up the infrastructure of 50 MW Solar PV Panel Product Line, and thereby to complete infrastructure and also the pilot run of the plant by February 2022.
7. To take up preparation of Self Study Report for the NAAC next cycle - II and to assign the responsibilities to different faculty and staff for it. A Steering Committee and criteria wise University level as well as School/Department wise committees be constituted.