



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution		PANDIT DEENDAYAL PETROLEUM UNIVERSITY
Name of the head of the Institution		Dr. S. Sundar Manoharan
Designation		Vice Chancellor
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		07923275007
Mobile no.		9426383008
Registered Email		registrar@pdpu.ac.in
Alternate Email		vikrant.vala@pdpu.ac.in
Address		Knowledge Corridor, Raisan
City/Town		Gandhinagar
State/UT		Gujarat
Pincode		382007
2. Institutional Status		

University	Private
Type of Institution	Co-education
Location	Urban
Financial Status	Self financed
Name of the IQAC co-ordinator/Director	Dr Rajesh Patel and Dr D Sriram
Phone no/Alternate Phone no.	07923275494
Mobile no.	9687848535
Registered Email	rajesh.patel@sot.pdpu.ac.in
Alternate Email	sriram.d@sls.pdpu.ac.in

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	http://www.pdpu.ac.in/naac-Accreditation.html
4. Whether Academic Calendar prepared during the year	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	http://spt.pdpu.ac.in/downloads/Even%20Semester%202019-20.pdf

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	A	3.39	2016	16-Dec-2016	15-Apr-2021

6. Date of Establishment of IQAC

05-Sep-2012

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Open source courses	19-Aug-2019 266	559
Capsule Courses	19-Aug-2019	789

	165	
ICT enabled learning	11-Nov-2021 128	220
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8. 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
No Data Entered/Not Applicable!!!				
No Files Uploaded !!!				

9. Whether composition of IQAC as per latest NAAC guidelines:	Yes
Upload latest notification of formation of IQAC	View File
10. Number of IQAC meetings held during the year :	4
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	View File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No

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

? Preparation for NBA Accreditation for B. Tech. Electrical Engineering, Chemical Engineering, Civil engineering and Petroleum Engineering programs. ? Participation of NIRF Ranking in Engineering and Management category along with University Category ? Introduction of Capsule courses to professional competency of the students for better placement opportunities. ? Revision of the curriculum as per Industry 4.0 requirement. ? Promotion of research across the university through improving publications in Scopus/SCI indexed journals and submitting research project proposal for sponsored research project to the government and industrial organizations.

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

Plan of Action	Achievements/Outcomes
Introduction of Capsule courses	Capsule courses are introduced to improve the competency and employment quotient of the students. The nature of such courses will be so as to equip students for peripheral and futuristic skills and knowledge to enhance their employability and understanding of the subject. During year 14 capsule courses were offered to the students where 789 students participated in capsule courses.
Participation of NIRF Ranking in Engineering and Management category along with University Category	IQAC has prepared and analyze database to be submitted to NIRF for Ranking in Engineering and Management category along with University Category.
Revamping of Curriculum	The curriculum 2020 of all the programs at Pandit Deendayal Energy University (PDEU) has been recently revised 1. To map curriculum with the societal needs of energy and environment, digital transformation and Industry 4.0. 2. To provide students with more courses offering hands on experience which includes laboratory courses up to 30% credits, rural internship, industrial orientation, industrial training and project work etc. 3. To offer students large number of professional elective courses and open electives as per the UGC guidelines and NEP 2020. 4. The curriculum 2020 includes core courses, professional elective courses, elective courses and electives from core, laboratory courses, rural internship, industrial orientation, industrial training and project work. 5. To bridge the gap between industry and academic by offering courses which are relevant to the demand of the industry.
NBA Accreditation for UG programs at Faculty of Engineering and Technology	Four UG programs at Faculty of Engineering and Technology namely B. Tech. Electrical Engineering, Chemical Engineering, Civil engineering and Petroleum Engineering programs has successfully submitted PreQualifier under TierI category
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14. Whether AQAR was placed before statutory body ?	Yes
Name of Statutory Body	Meeting Date

IQAC Committee	01-Sep-2021
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2020
Date of Submission	11-Feb-2020
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p>Key issues related to Management System Development, Implementation and Continuous Improvement are discussed and appropriate decisions are taken at the meetings of the Statutory Bodies. The Board of Governors (BoG) and Finance Committee (FC) deliberated on the developmental strategies of the University and guide on all broad areas of development and internal quality enhancement. Research Advisory Board contributes with critical inputs and new ideas for research and development and incorporating cutting edge research in the framing and or updating of curricula. The Office of Planning and Development looks in to the emerging areas of knowledge and research and provides inputs for the development and implementation of new projects. BoG has constituted a Standing Committee to oversee, guide and support the university in policy implementation. To achieve the goals of providing excellent education and training, discussions are regularly held among Dean and Directors with the DG, to review on action taken and future planning. 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 proposed to the Finance Committee Meeting. Academic issues are taken up in the meetings of Academic Council. There are also support offices like Office of International Relations, Office of</p>

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BTech	BTCSE	Computer Science and Engineering	24/06/2020
Mtech	MTCH	Chemical Engineering	24/06/2020
MBA	MBAEI	Energy & Infrastructure	24/06/2020
MA	MAE	Economics	24/06/2020
BA	BA	B. A. (Hons.)	24/06/2020
BBA	BBA	BBA (Hons.)	24/06/2020
BCom	B. Com.	B. Com. (Hons.)	24/06/2020
MSc	MSCM	Mathematics	24/06/2020
BTech	BTCL	Civil Engineering	24/06/2020
Mtech	MTPE	Petroleum Engineering	24/06/2020

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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BTech	Electrical Engineering	01/07/2019	19EE404T-Digital Signal Processing and its Applications	01/07/2019
BTech	Petroleum Engineering	01/07/2019	20PEB403-Offshore Operation	01/07/2019
BTech	Information and Communication Technology	01/07/2019	19IC411P-Comprehensive Project	01/07/2019
BA	BA (Hons.)	01/07/2019	BIR52-History and Perspectives in International Relations	01/07/2019
BCom	B.Com. (Hons.)	01/07/2019	19BC 727-Entrepreneurship and	01/07/2019

			International Trade	
BSc	B.Sc. (Hons.)	01/07/2019	19BSC706E-Heterogeneous Catalysis -E	01/07/2019
Mtech	Petroleum Engineering	01/07/2019	19PEM111-Well stimulation: Conventional and Unconventional Reservoirs	01/07/2019
MA	Economics	01/07/2019	19MEC104-Research Methods	01/07/2019
MA	Mass Communication	01/07/2019	20MMCE314-Media and Communication for Development in India	01/07/2019
MSc	Physics	01/07/2019	20SC 504P-Solid State Physics Laboratory	01/07/2019
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1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
MA	Economics	01/07/2019
MA	Media and Communication	01/07/2019
Mtech	Mechanical (Manufacturing Engineering)	01/07/2019
Mtech	Civil (Transportation Engineering)	01/07/2019
Mtech	Petroleum Technology (Exploration) Engineering	01/07/2019
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the University level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
MA	Economics	01/07/2019
MA	Medial and Communication	01/07/2019
Mtech	Civil (Transportation Engineering)	01/07/2019
Mtech	Petroleum Technology (Exploration) Engineering	01/07/2019

Mtech	Mechanical (Manufacturing Engineering)	01/07/2019
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1.3 – Curriculum Enrichment

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

Value Added Courses	Date of Introduction	Number of Students Enrolled
Basics of PLC (Automation Lab)	01/07/2019	110
Low Voltage Switchgear (Electrical Lab)	01/07/2019	110
Basics of AC-DC Drive (Electrical Lab)	01/07/2019	116
Essentials for NX Designers	01/07/2019	148
NX Sheet Metal	01/07/2019	118
Intermediate NX Design and Assemblies	01/07/2019	153
Advanced Simulation Process and Solution	01/07/2019	118
Well Logging in Oil Industry	01/07/2019	120
Well testing in Petroleum Industry	01/07/2019	120
Reservoir Modeling and Stimulation using Software	01/07/2019	120
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	Mechanical Engineering	456
BTech	Computer Science and Engineering	382
BTech	Information & Communication Technology Engineering	288
BTech	Civil Engineering	411
BTech	Chemical Engineering	241
BTech	Electrical Engineering	376
Mtech	Solar System (Focused on Energy System)	31
Mtech	Mechanical Engineering (Thermal)	25
Mtech	Mechanical Engineering (Design)	31

Mtech	M. Tech. Mechanical Engineering (Manufacturing)	15
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained
<p>Feedback are analyzed from viewpoints of improving teaching learning process betterment of facilities and enhancing placement scenario, all this finally aids into developing the University significantly. Feedback is also obtained from the industries and organizations coming forward for campus placement about students' competence and thereby of overall academics of the University. We always keep the window open in placing the academic feedback in the Board of Studies and at the meetings of HoDs, to address the concerns mentioned in it. The feedback on facilities are administered by the General Administration for remedial action on it.</p>

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
MA	Master Mass Communication	20	25	20
MBA	General Management	60	266	69
Mtech	Mechanical Engineering (Manufacturing Engineering)	18	53	15
BTech	Petroleum Engineering	120	970	153
MA	Master of Psychology	20	25	20
BSc	B. Sc. (Hons.)	60	290	29
BCom	B. Com. (Hons.)	120	580	122
MBA	Energy & Infrastructure	60	266	70

Mtech	Environment Engineering & Studies	18	111	17
BTech	Computer Engineering	120	2927	156
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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	4953	666	174	28	90

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
235	235	19	53	53	45

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

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

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

Counselling offers guidance and support to students at every stage of their college life and helps them to understand any problems or concerns that are affecting their academics and career. It also helps them in planning for short and long term goals and for job opportunities. For a group of 20 students, a counsellor is nominated from amongst the faculty for the counselling of the students to help student's matters in Academic Development, Career Development, and Personal/Social Development. The goal of counselling is to help individuals overcome their immediate problems and also to equip them to face future problems. Counselling, to be meaningful has to be specific for each student since it involves his unique problems and expectations. Individual/Group Counselling Sessions for variety of problems in sphere of academics, department facilities, university facilities etc. To identify the difficulties in the theory and laboratory courses offered. To identify the problem related to the industrial training and placement. To help the student work out a plan for solving their difficulties. To inspire successful endeavour toward attainment. To help student to choose right career path for job, higher studies, Entrepreneurship etc. The counsellor shall meet twice in a semester for the counselling sessions and records the counselling matter in prescribed format. A brief counselling report addressing major issues shall be submitted to the Head of the Department and/or the Director of the respective school.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
5619	292	1:19

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
49	39	10	39	32

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Prof. Indrajit Mukhopadhyaya	Professor	VIRA International Award
2019	Anirbid Sircar	Professor	Venus International Award -Engg
2020	Dr. Debasis Sarkar	Associate Professor	Rosalind Fellow
2020	Dr. M. B. Kiran	Associate Professor	Project Management Professional
2019	Dr.Ritu Sharma	Associate Professor	Vice-President of the Indian Association of Cognitive Behaviour Therapy in the General Body Meeting (Elected unopposed)
2019	Dr. Anantha Singh	Assistant Professor	Early career research award
2020	Dr. Anurag Kandya	Assistant Professor	Empanelled as Functional Area Expert (FAE) for Air Quality and Noise at Forest Environment and Climate Change Management Consultancy (FECCM) Pvt. Ltd., Bhopal
2020	Dr. Dadi Surriaparao	Assistant Professor	Best Researcher award in New Science Inventions 2020
2019	Dr. J Brahma	Assistant Professor	Young Scientist - Awardee
2019	Dr Rohit Srivastava	Assistant Professor	Distinguished Young Researcher
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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end

				examination
Mtech	MTPE	4	13/06/2020	30/06/2020
BTech	BTPE	8	13/06/2020	30/06/2020
MA	MAEL	4	18/06/2020	30/06/2020
BSc	BSC	8	18/06/2020	30/06/2020
BCom	BCOM	8	15/06/2020	30/06/2020
BBA	BBA	8	15/06/2020	30/12/2020
BA	BA	8	15/06/2020	30/06/2020
MBA	MBAEI	6	01/06/2020	01/09/2020
Mtech	MTCH	4	13/06/2020	30/06/2020
BTech	BTCH	8	13/06/2020	30/06/2021

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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
Nil	5519	0

2.6 – Student Performance and Learning Outcomes

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

[https://www.pdpu.ac.in/downloads/2.6.1%20-%20Program%20outcomes,%20program%20%20specific%20outcomes%20and%20course%20outcomes%20\(2018-19\).pdf](https://www.pdpu.ac.in/downloads/2.6.1%20-%20Program%20outcomes,%20program%20%20specific%20outcomes%20and%20course%20outcomes%20(2018-19).pdf)

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
BTIE	BTech	INDUSTRIAL ENGINEERING	59	56	94.9
BTCE	BTech	COMPUTER ENGINEERING	75	75	100
BTME	BTech	MECHANICAL ENGINEERING	140	140	100
BTICT	BTech	INFORMATION AND COMMUNICATION TECHNOLOGY	64	64	100
BTEE	BTech	ELECTRICAL ENGINEERING	108	108	100
BTCH	BTech	CHEMICAL ENGINEERING	67	67	100
BTCL	BTech	CIVIL ENGINEERING	124	124	100

BTPE	BTech	PETROLEUM ENGINEERING	143	141	98.6
BBA	BBA	BACHELOR OF BUSINESS ADMINISTRATI ON(HONS.)	118	118	100
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2.7 – Student Satisfaction Survey

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

<https://www.pdpu.ac.in/downloads/2.7.1%20-%20Students%20Satisfaction%20Survey.pdf>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

3.1.1 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
International	Dr. Swapnil Dharaskar	Visiting Research Grant	01/08/2020	DST, India Academy of Science, Finland
National	Dr Rama Gaur	DST-SERB-TARE	12/07/2019	DST (SERB)
National	Dr. Narayan Baser	Impactful Policy Research in Social Science (IMPRESS)	12/03/2020	Indian Council of Social Science Research
National	Dr. Ashutosh Muduli	Impactful Policy Research in Social Science (IMPRESS)	18/11/2019	Indian Council of Social Science Research
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3.1.2 – Number of JRFs, SRFs, Post Doctoral Fellows, Research Associates and other fellows in the Institution enrolled during the year

Name of Research fellowship	Duration of the fellowship	Funding Agency
Junior Research Fellowship	365	Ministry of Earth Sciences
Project Assistant	365	Indian Space Research Organization
Senior Research Fellowship	365	Department of Biotechnology European Union
Senior Research Fellowship	365	Science and Engineering Research Board
Senior Research	365	Board of Research in

Fellowship		Nuclear Sciences
Senior Research Fellowship	365	Department of Science Technology
Senior Research Fellowship	365	Solar Research Development Cell, PDEU
Woman Scientist	365	Department of Science Technology
Research Associate	365	Indian Space Research Organization
Junior Research Fellowship	365	Department of Biotechnology European Union
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3.2 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	989	Board of Research in Nuclear Sciences	25.32	2.91
Major Projects	1141	Indian Space Research Organization	13.79	3.81
Major Projects	1095	Science and Engineering Research Board	21.66	2.78
Major Projects	1095	Science and Engineering Research Board	25.08	8
Major Projects	1004	Indian Space Research Organization	20.52	6
Major Projects	812	Indian Space Research Organization	13.92	5
Major Projects	729	Indian Council of Social Science Research	5.91	1.65
Major Projects	718	Board of Research in Nuclear Sciences	26.07	8
Major Projects	718	Board of Research in Nuclear Sciences	32.91	7.92
Major	730	Space	10.35	2.55

Projects		Application Centre	
View File			

3.3 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
Online science webinar on Cutting-edge Research Instruments in Nano Science and Nanotechnology	Department of Solar Enrgy	17/05/2020
Expert talk on Recent Technological Innovation in Solar Photovoltaic Technology	Department of Solar Enrgy Solar Research Technology Center	16/03/2020
Expert talk on FET charactrazitaion of organic molecules	Department of Solar Enrgy Solar Research Technology Center	10/02/2020
One Day Symposium on Perovskite Nanocrystals: The Upcoming Light Emitting and Light Harvesting Material	Department of Solar Enrgy, School of Technology	14/11/2019
Expert talk on E-Mobility EV Charging Infra	Department of Solar Enrgy Solar Research Technology Center	23/10/2019
One Day Symposium on Nanostructured Materials and Application in Energy Conversion, Storage and Sensor	Department of Solar Enrgy Solar Research Technology Center	14/10/2020
Session on Lithium- Ion Battery pack: Single testing, Pack testing and beyond	Department of Solar Enrgy Solar Research Technology Center	26/08/2019
Start Unknown and Finish Unforgettable by Mr. Anand Bhatnagar, VP (HR), Reliance Industries Ltd.	Mechanical Engineering Department	12/06/2019
Two day workshop on ANSYS: hands-on sessions on the CFD capabilities	Mechanical Engineering Department	30/08/2019
Wear and Wear Testing	Mechanical Engineering Department	30/09/2019
Students Solar Ambassador Workshop 2019	Mechanical Engineering Department	10/02/2019
A Seminar on Career awareness session on biggest mistake an	Mechanical Engineering Department	11/07/2019

engineer by Canadian start up Boarding pass for success		
A seminar on Use of NDT techniques in space applications and insights into Chandrayan -2	Mechanical Engineering Department	19/11/2019
Industry Connect 2019	Mechanical Engineering Department	12/06/2020
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3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Best Research Scientist Award 2020 for New Innovations in Engineering	Dr. Swapnil Dharaskar	Science Father	15/02/2021	Teacher
Young Achiever Award in 'International Business and Academic Excellence Awards (IBAE-2019)'	Dr Kalisadhan Mukherjee	GISR Foundation, Noida, India	01/09/2019	Business Excellence
Venus Wires Award - 2019 for the best Technical paper on Stainless Steel Applications	Dr. Vishvesh Badheka	5th International Congress, 2020	01/02/2020	Innovation
Top Peer Reviewer 2019 Global Peer Review Awards in the area of Materials Science and Cross-field	Dr. Vivek V Patel	Web of Science	11/09/2019	Teacher
Young researcher award	Dr. Swapnil Dharaskar	Top 50 international distinguished young researcher award 2020	01/05/2020	Innovation
Energy Efficient Process for CO2 seperation using ILSM	Dr. Swapnil Dharaskar	MIT Pune	01/02/2020	Teacher

Young Welding Engineer Male Award 2019	Dr. Kush Mehta	WeldFabTech Times (eliza.weldfabtechtimes@gmail.com)	10/01/2020	Innovation
VIRA International Award Distinguished Scientist	Prof. Indrajit Mukhopadhyay	Center for Advance research and Design, Venus International Foundation	10/10/2019	Teacher
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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
PDPU Innovation and Incubation Centre (PDPU IIC)	Harsh Patel	PDPU innovation and incubation centre	Envipure Technologies Private Limited	Technological innovation	26/11/2019
PDPU Innovation and Incubation Centre (PDPU IIC)	Deep Lodhari	PDPU innovation and incubation centre	All That Dips	Non Technological innovation	10/10/2019
PDPU Innovation and Incubation Centre (PDPU IIC)	Abhishek Shah	PDPU innovation and incubation centre	Jabtech Group	Non Technological innovation	01/12/2019
PDPU Innovation and Incubation Centre (PDPU IIC)	Yashraj Mahendrasinh Thakor	PDPU innovation and incubation centre	Exomech Private Limited (3rd Vision)	Technological innovation	13/08/2019
PDPU Innovation and Incubation Centre (PDPU IIC)	Ms. Megha Das	PDPU innovation and incubation centre	Amounee Handloom (OPC) Private Limited	Non Technological innovation	16/04/2019
PDPU Innovation and Incubation Centre (PDPU IIC)	Mr. Mayur Mahla	PDPU innovation and incubation centre	Bogie Sauf Private Limited	Technological innovation	25/09/2019
PDPU Innovation and	Vishal dhamecha	PDPU innovation and	Rhyno Wheels Private	Technological innovation	11/07/2019

Incubation Centre (PDPU IIC)		incubation centre	Limited		
PDPU Innovation and Incubation Centre (PDPU IIC)	Mrs. Jalpa Vora	PDPU innovation and incubation centre	Fowex Ventures Private Limited	Technological innovation	31/12/2019
PDPU Innovation and Incubation Centre (PDPU IIC)	Dipen Panchani	PDPU innovation and incubation centre	Draap Machines Private Limited	Technological innovation	16/09/2019
PDPU Innovation and Incubation Centre (PDPU IIC)	MADHUKANT POPATBHAI PATEL	PDPU innovation and incubation centre	Revesoils Private Limited (Kisanmitra)	Technological innovation	11/09/2019

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3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
School of Liberal Studies	4
Chemistry	2
Civil Engineering	4
Mathematics	2
Mechanical Engineering	2
Physics	2
School of Petroleum Management	1
School of Petroleum Technology	2

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

Type	Department	Number of Publication	Average Impact Factor (if any)
National	School of Liberal Studies	15	1.3
International	School of Liberal Studies	45	2.1
National	School of Petroleum Management	15	1.5
International	School of Petroleum Management	35	3.1
National	School of Technology	54	1.5

International	School of Technology	224	2.4
National	School of Petroleum Technology	15	1.3
International	School of Petroleum Technology	35	2.3
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3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Mathematics	10
Physics	13
Nuclear Science and Technology	2
Mechanical Engineering	45
Information and Communication Technology	15
Electrical Engineering	32
Computer Science and Engineering	36
Civil Engineering	56
Chemistry	25
Chemical Engineering	61
View File	

3.4.4 – Patents published/awarded/applied during the year

Patent Details	Patent status	Patent Number	Date of Award
An Improved Process For Preparation Of Biodiesel	Published	202021006776	17/02/2020
Mat with Lighting Fixtures	Published	311008	05/07/2019
Bed Sheet With Lighting Fixtures	Published	311007	24/05/2021
Portable Clothes Hanger for Public Toilet	Published	320208-001	06/09/2019
Fish Vending Cart with Refrigeration Unit	Published	320209-001	06/09/2019
Nano Structured Metal Oxide Particles And Process Thereoff	Published	201921000822	01/08/2019
A Process For Developing Thin	Published	201921000821	01/08/2019

Film Cu ₂ Sns ₃			
Formulation For Synthesis Of Epoxides From Olefins And Process Thereof	Published	201921013586	04/04/2019
System For Dynamic Monitoring Of Air Quality	Published	201921022722	06/07/2019
A Process For Preparation Of Biodiesel	Published	202021004406	31/01/2020
View File			

3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
A review on friction-based joining of dissimilar aluminum-steel joints	Mehta K.P.	Journal of Materials Research	2019	29	Department of Mechanical Engineering, School of Technology (SOT), Pandit Deendayal Petroleum University (PDPU), Gandhinagar, Gujarat, 382007, India	27
A Magnetohydrodynamic Time Dependent Model of Immiscible Newtonian and Micropolar Fluids through a Porous Channel: a Numerical Approach	M. Devakar, Ankush Raje	Journal of Applied Fluid Mechanics	2019	0	School of Science and Technology, Sunway University, No. 5, Jalan University, Bandar Sunway, 47500 Subang Jaya, Selangor	Nil
A graphene/ZnO	Tavakoli M.M.,	Journal of	2019	66	Department	62

<p>electron transfer layer together with perovskite passivation enables highly efficient and stable perovskite solar cells</p>	<p>Tavakoli R., Yadav P., Kong J.</p>	<p>Materials Chemistry A</p>			<p>of Electrical Engineering and Computer Science, Massachusetts Institute of Technology, Cambridge, MA 02139, United States Department of Materials Science and Engineering, Sharif University of Technology, Tehran, 14588, Iran Department o</p>	
<p>A comprehensive review of the application of nano-silica in oil well cementing</p>	<p>Akshar Thakkar, Aakash Raval, Shishir Chandra, Manan Shah, Anirbid Sircar</p>	<p>Petroleum</p>	<p>2019</p>	<p>11</p>	<p>Department of Chemistry, Kalasalingam University (Kalasalingam Academy of Research and Education), Krishnankoil 626 126, Tamil Nadu, India</p>	<p>10</p>
<p>A comparative performance evaluation of the reversed Brayton cycle operated</p>	<p>Patel V.K., Raja B.D.</p>	<p>Energy Conversion and Management</p>	<p>2019</p>	<p>18</p>	<p>Department of Mechanical Engineering, School of Technology, Pandit</p>	<p>16</p>

heat pump based on thermo-ecological criteria through many and multi objective approaches					Deendayal Petroleum University, Gujarat, India Department of Mechanical Engineering, Indus University, Gujarat, India	
A Communication-assisted Scheme in Radial Distribution Systems Using Phasor Measurement Units	Alok Jain, M.K. Verma	IETE Technical Review	2019	1	Pandit Deen Dayal Petroleum University Department of Electrical Engineering, Indian Institute of Technology (BHU), Varanasi 221005, India	1
A cobalt oxide nanocubes interleaved reduced graphene oxide nano composite modified glassy carbon electrode for amperometric detection of serotonin	Muhammad Mehmood Shahid, Perumal Rameshkumar, Arshid Numan, Syed Shahabuddin, Mahdi Alizadeh, Poi Sim Khiew, Wee Siong Chiu	Materials Science and Engineering: C	2019	16	Higher Institution Centre of Excellence (HICoE), UM Power Energy Dedicated Advanced Centre (UMPEDAC), Level 4, Wisma RD University of Malaya, Jalan Pantai Baharu, 59990 Kuala Lumpur, Malaysia	15
A chain is as strong as its weakest	Holzhey P., Yadav P., Turren-Cruz S.-H., Umm	Materials Today	2019	24	Adolphe Merkle Institute, University of	22

link - Stability study of MAPbI3 under light and temperature	adisingu A., Grätzel M., Hagfeldt A., Saliba M.				Fribourg, CH-1700 Fribourg, Switzerland Laboratory of Photonics and Interfaces, Institute of Chemical Sciences and Engineering, École Polytechnique Fédérale de Lausanne, Lausanne, CH-1015, Switzerland Departm	
3D mathematical modeling of calcium signaling in Alzheimer's disease	Devanshi D. Dave Brajesh Kumar Jha	Network Modeling Analysis in Health Informatics, Springer and Bioinformatics	2019	9	Department of Mathematics, School of Technology, PDPU, Gandhinagar, India	8
Are extrovert employees able to handle stress better? An empirical study among the emergency service workers in Gujarat	Dr. Neeta Sinha, Dr. Supriya Pal	Journal of The Gujarat Research Society	2019	18	Social Sciences, School of Liberal Studies	15
View File						

3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
3D mathe	Devanshi	Network	2019	34	8	

mathematical modeling of calcium signaling in Alzheimer's disease	D. Dave Brajesh Kumar Jha	Modeling Analysis in Health Informatics, Springer and Bioinformatics			Department of Mathematics, School of Technology, PDU, Gandhinagar, India
View File					

3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	64	59	45	45
Presented papers	51	24	38	15
Resource persons	10	12	13	7
View File				

3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultant(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Mechanical Engineering	MQL based wear testing with charged lubricant	PhD Research Scholar from IITRAM	14160
Solar Energy	Third party inspection for agency for carrying out of solar rooftop system installed during the 2018-2019 in the state of gujarat at user place under GEDAs residential solar rooftop programme	Gujarat Energy Development Agency(GEDA)	2457000
Chemical Engineering	Molecular Simulation study of Novel Ionic Liquids	Department of Science and Technology and Academy of Finland	90000
Chemical Engineering	Development of Large scale CO2 capture process	AGT CCS, Ahemdabad	600000
Civil Engineering	Development of Project Risk Management Model for Solar Power Plant	Kumars Energy (P) Ltd, Bangalore	300000
School of	Campus to	Torrent Gas	1121000

Petroleum Technology	corporate		
Pandit Deendayal Petroleum University	Consultancy Fees - JREDA (Deputation)	Jharkhand Renewable Energy Development Agency	9287855
Pandit Deendayal Petroleum University	2 MW Grid Connected Solar Photovoltaic Project at STPs	Gujarat Urban Development Company Limited	471058
Pandit Deendayal Petroleum University	PMC 1.345 MW GEDA Solar Power Project	Gujarat Energy Development Agency	194700
Pandit Deendayal Petroleum University	Bid Advisory and DPR of 100 MW Raghnesda and 50 MW Dholera	Gujarat Industries Power Company Limited	1311975
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3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
Pandit Deendayal Petroleum University	RE related trainings for Govt. Departments	Energy and Petrochemical Department, Govt. of Gujarat	1600000	15
Pandit Deendayal Petroleum University	Canal Top Training	GSECL, Govt. of Gujarat	990000	9
Department of Chemistry	Publish or Perish: Strategies for scientific research publications	Students and researchers	20000	50
View File				

3.6 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Swachhta Pakhwada	NSS, PDP	4	45
Article Writing	The Election Commission of India	3	50
Guest Lecture on organ donation	Civil hospital Ahmedabad	3	75
Village survey Unnat Bharat	UBA, NSS	2	40

Abhiyan (UBA)			
Tree Plantation	Raisan Village, NSS, PDPU	5	50
Poster Presentation	ICE	2	9
Forum of Expression (Gender Equality Safety)	Jharokha	3	30
Project Umang at Valad Village school	Umang	3	50
Blood Donation Drive	Rotaract Club of PDPU	5	350
Assam Flood Relief	Rotaract Club of PDPU	7	17
View File			

3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Research	Visiting Research Scientist	DST, GoI and Academy of Finland	1
Research presentation	Foreign Travel Grant	DST, GoI	1
Highly cited author in India	Highly cited author in India	American Chemical Society (ACS)	1
Distinguished Scientist	VIRA International Award	Center for Advance research and Design, Venus International Foundation	1
Diploma for research paper in JACS	Diploma for research paper in JACS	Polish Academy of Science	1
Research	Young Researcher	Venus International Foundation India	1
Geothermal Research	Distinguished Faculty	Venus International Foundation India	1
National Committee on Geothermal	Expert Member	Ministry of New and Renewable Energy	1
Research in Wind Energy	Chair Professor	Suzlon Energy Ltd	1
Innovation in Engineering	Best Research Scientist Award 2020 for New Innovations in	Science Father	1

Engineering

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3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Cyclothon-Fit India 2020	Sports NSS, PDPU	Cyclothon-Fit India 2020	3	25
Martyrs Run-Neon Rush	Sports NSS, PDPU	Martyrs Run-Neon Rush	45	500
Swachhta Pakhwada	NSS, PDPU	Swachhta Pakhwada	6	45
NSS, PDPU	Civil hospital Ahmedabad	Blood Donation camp	26	350
My Vote Matters	The Election Commission of india	Article Writing	3	50
NSS, PDPU	Civil hospital Ahmedabad	Guest Lecture on organ donation	5	75
NSS, PDPU	NSS	Poster making	5	50
UBA	UBA,NSS	Village survey Unnat bharat Abhiyan (UBA)	3	40
Green Gandhinagar NSS,PDPU	Raisan Village, NSS, PDPU	Tree Plantation	7	50
Swachhta Pakhwada	ICE	Poster Presentation	3	9

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3.7 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
Research Exchange collaboration	Dr. Swapnil Dharaskar	DST, Government of India	55
Research Linked support	Dr. Swapnil Dharaskar	DST, Government of India	1095
Research Linked support	Dr. Sukanta Dash	DBT, Govt of India	1095
University project in collaboration with LT, Vadodara	Dr. Uma Chaduvula, CV17 students- Himanshu Patel, Digvijay Bhatasariya	University of Birmingham, United kingdom	365

Research	Student and Faculty Members	Denmark Technical University, Denmark	365
Research	Student and Faculty Members	IHE Delft Institute for Water Education, Netherland	365
Research	Student and Faculty Members	LEITAT Technological Center, Spain	365
Research	Student and Faculty Members	Canadore College, North Bay, ON, Canada	365
Research	Student and Faculty Members	Bursa Uludağ University, Görükle, Bursa, Turkey	365
Research	Student and Faculty Members	King Fahd University of Petroleum Minerals, Saudi Arabia	365
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3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Internship	Industrial Internship	Gensol engineering Ltd., Ahmedabad, Contact: 91-7940068235	09/07/2019	09/08/2019	1
International Collaboration	N- and P-type oxide semiconductors for Advanced Oxidation Processes	C-zech-India Scientific Cooperation Project, University of Chemistry and Technology, Technicka 5,16628 Praha 6, Czech Republic	01/07/2019	30/06/2020	2
International Collaboration	CEFIPRA Scientific Collaborative	Dr. Sylvain Legall	01/07/2019	30/06/2020	3

	Research Programme	(Principal Collaborator from Group of Electrical Engg. Paris, France) and Dr. Stephane Bastide (Joint Principal Collaborator from Institute of chemistry material, Paris, France)			
International Collaboration	Perovskite Crystals for Scintillators Applications	University of Stuttgart Helmholtz Young Investigator Group FRONTRUNNER, Forschungszentrum Jülich	01/01/2020	30/06/2020	2
International Collaboration	Prof. Indrajit Mukhopadhyay visit the Institute of Electrochemistry, Clausthal University of technology, Germany for the purpose of collaboration to improve mutual research and development	Prof. Dr. Frank Endres (Institute of Electrochemistry, Clausthal University of technology)	01/08/2019	15/09/2019	7
International Collaboration	International Meeting on the application of Nano-Materials for energy Conversion and storage	Mr. Antoine Rodolphe (University of Lyon, France)	05/02/2020	07/02/2020	5
Sharing Research Facilities	Research and Material exchange	Environmental Hydraulics Institute, Universidad	01/07/2019	30/06/2020	7

		De Cantabria			
Project Work	Comprehensive Project	Unschool, Hyderabad	01/07/2019	15/05/2020	1
Project Work	Comprehensive Project	LT Hydrocarbons	01/07/2019	15/05/2020	1
Project Work	Comprehensive Project	IIT Mumbai	01/07/2019	15/05/2020	1
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3.7.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
CEAT Tyres, Vadodara	17/01/2020	Student Project, Training and Research	3
University of Rome-TorVergatta	22/01/2020	Exchanges and internships for students, faculty, and staff Joint research projects	2
University of Saskatchewan, Canada	03/07/2019	Exchanges and internships for students, faculty, and staff • Introduction of new curricula • Joint research projects • Exchange of publications and training materials and • Development of joint academic programming.	125
Otemon Gakuin University, Japan	26/07/2019	Exchange of faculty members Exchange of students Exchange of periodic publications regarding arts, science and education Implementation of joint educational programs Implementation of joint activities regarding various kinds of culture and education	Nil
University of Birmingham, UK	19/02/2020	Joint research projects	5

Oil India Limited	12/08/2019	Consultancy and joint research	4
View File			

CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
823.5	749.75

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Laboratories	Newly Added
Classrooms with LCD facilities	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Campus Area	Existing
Seminar Halls	Existing
View File	

4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
TCSion library module	Fully	NA	2007

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	56441	47811028	1607	1871831	58048	49682859
e-Books	68049	616923	7378	687179	75427	1304102
Journals	246	1348781	75	352639	321	1701420
e-Journals	11115	12147468	9586	1411290	20701	13558758
Digital Database	7	791640	4	399444	11	1191084
CD & Video	3267	853734	137	17000	3404	870734
Weeding (hard & soft)	458	366400	Nill	Nill	458	366400
Others(s	63	10669	Nill	Nill	63	10669

Existing	1279	7	375	1	2	4	1	375	0
Added	141	1	1000	0	0	0	0	1000	0
Total	1420	8	1375	1	2	4	1	1375	0

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

2000 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Media Lab	https://sls.pdpu.ac.in/media-lab.html

4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
2313.1	2569.42	1436.33	1175.29

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

Pandit Deendayal Petroleum University's 100 acre campus is located in Gandhinagar, which is the capital city of Gujarat. 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. The campus is speeded over 98 acres of land, landscaping, well equipped state of art academic and research laboratories, fully air-conditioned classrooms, lecture theaters, auditorium of 470 capacity, cafeteria, sports ground, 24x7 medical facility, on campus state bank of India bank facility, stationary and reprographic faculty, CCTV surveillance, Boys and Girls hostels, fully automated virtually connected 03 libraries. The entire campus is Wi-Fi enabled with LAN connectivity. The classrooms are equipped with multimedia and audiovisual equipment to facilitate effective learning. Each classroom has Internet connectivity through wireless local area network. 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 etc competition. To enable students to comprehend and use languages efficiently, PDPU has set up multi-media Language Laboratory (Language Lab) set in 2110 sq. feet spacious room, the Language Lab is fully furnished and air conditioned. The Language Lab at PDEU is a Computer based laboratory with flexibility to conduct laboratory sessions without computers also. The software used in the Language Lab is developed by Globarena Technologies Private Limited. The Software has default 200-hour self learnable digital program. University houses 24 x 7 Health Care Centre on campus that is open for all members on the working days. Keeping the academic, social psychological, and emotional needs of its students in mind, the

University has a dedicated counselor. The counselor systematically studies and discusses a student's problems and facilitates the student to find an appropriate solution. A nutritious diet and a good workout helps students to combat academic stress. PDEU has set up a state of the art wellness centre which offers cardio weight training equipment and helps students workout under the expert supervision of a certified trainer. The university has world class sports facility which includes a volleyball court, a tennis court, a basketball court, a football and cricket ground, a table-tennis room etc. University has separate campus management department for maintaining the campus facility. Campus HAS 24 x 7 security services, CCTV surveillance system , Hostel access through Biometric system. The campus is well maintained by daily cleaning of campus facility by 130 housekeeping staff, Sewerage Treatment Plant: 02 Nos. (300 KLD each), Rain Water Harvesting:12 percolation wells (20 KL/Hr)

<https://pdpu.ac.in/infrastructure.html>

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Merit Scholarship, For Foreign Visit-Semester Programme, Merit cum means Scholarship and Student Travel Grant	561	68062000
Financial Support from Other Sources			
a) National	MYSY and Post Matric Scholarship	393	41249000
b)International	NA	Null	0

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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Akath by Jharokha - The Literature club of PDPU	25/02/2020	30	NA
Research paper writing workshop	04/12/2019	73	NA
NAZm - Open Mic	16/09/2019	15	NA
Begin-o-Botics workshop- CRETUS	19/10/2019	60	NA
Tesseract19 - Annual Science and Technical Fest - Science and Technical Committee	08/11/2019	500	NA

Java Workshop-Encode	23/11/2019	60	NA
Revisiting the basic and applied aspects of Membrane separation in chemical and allied industries- Expert Lecture by Prof. K.Nath	23/08/2019	80	NA
Chemfuge 3.0-Annual Chemical Engg Quiz and Poster Competition	15/11/2019	80	NA
Webinar on Candy Soft-ware demo Session	16/04/2020	150	NA
National Seminar on "Recent Advances in infrastructure Project	14/02/2020	155	NA
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	Soft Skills, Resume Writing, Group Discussion Preparation and Personal Interview Preparation	Nil	124	Nil	55
2020	1Virtual Seminar on Profile building and Career Opportunities during COVID-19 crisis for 2017-21 & 2018-22 batch- (6th May 2020)	Nil	256	Nil	Nil

2020	AMCAT (Phase 2) Assessment Test for Placement Preparedness (2016-20 batch) (12 & 13 Sept. 2019)	20	168	Nil	65
2019	AMCAT (Phase 2) Assessment Test for Placement Preparedness (2016-20 batch) (12 & 13 Sept. 2019)	21	734	Nil	111
2020	Virtual Seminar on Profile building and Career Oppor tunities during COVID-19 crisis by PN Santosh (CEO & Founder, CareerLabs, Byjus) for 2017-21 & 2018-22 batch on 6th May 2020)	Nil	1390	Nil	Nil
2020	Webinar on Profile Building Post Covid 19 by Foxmula experts - (7th June 2020) - 2016/17/18 batch	Nil	2088	Nil	Nil
2020	GATE Coaching	78	Nil	Nil	Nil
2019	Visit to Bombay Stock Exchange, Ahmedabad	Nil	42	Nil	Nil
2019	Guest	35	100	Nil	Nil

	lecture on ROAD TO GATE				
2020	Webinar on Future of Chemical Engineers post Covid-19 by Chemtech Student Outreach Program by Dr. R A Mashelkar - 19th June 2020 - Btall/mtall	Nil	7104	Nil	Nil

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

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

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Excel Technical and Industrial Supplies LLC, Oman	52	3	NA	Nil	Nil

[View File](#)

5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2019	1	M. Tech.	Energy Systems (Focused on Solar Energy)	BITS Pilani	Ph. D. MECHANICAL ENGINEERING)
2019	1	B. Tech.	Civil Engineering	Auburn University	Masters in Industrial and Systems Engineering Industrial

					and Systems Engineering
2019	1	B.A. (Hons.)	Economics	Ashoka University	Post graduate diploma in Liberal Arts
2019	1	B. Tech.	Mechanical Engineering	Arizona State University	Master of science Manufacturing Engineering
2019	1	B. Tech.	Civil Engineering	Adani institute of infrastructure management	M. Tech. Infrastructure management
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
NET	5
GATE	78
CAT	5
GRE	278
TOFEL	345
Civil Services	5
Any Other	249
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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Bhangra Workshop	Inter University	30
Showcase	Inter University	100
Introductory Session	Inter University	400
Freshers Sports Meet	Inter University	100
Art Beat	Inter University	50
Vartalaap	Inter University	25
Independence Day Celebration	Inter University	100
Letter to Nation	Inter University	20
Anand Mela	Inter University	100
Assam Relief Fund	Inter University	60
View File		

5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	The connecting dots by IIM Calcutta Third Position (Second Runners up)	National	Nil	1	18BEE082	Rahul Gandhi
2019	Dare2Compete- Graphic designing competition hosted by Internationalism, Second Position (Runners up)	International	Nil	1	19BABBA027	Prisha Rohan
2019	UN75 in collaboration with CYL (SDG3) Mental Health and awareness	International	Nil	1	19BABBA027	Prisha Rohan
2019	ISRS National Symposium	National	Nil	1	19MEN001	Second Position
No file uploaded.						

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

To augment the students' educational experience at PDPU the Office of Student Activities, Involvement Leadership (OSAIL) encourages bounteous and innumerable opportunities for students to explore and enhance creative and managerial skills. Under the mentorship of OSAIL, the students ideate and execute events, run their organizations as an autonomous body. They keep campus buzzing but the learning outside the classroom comes as an added advantage - team work, financial planning management, time management, marketing promotions, communication and negotiation skills etc. all these they learn with fun. Office of Student Activities, Involvement Leadership works to help students to explore, nurture and exhibit their passion and develop life leadership skills. Thus, in such short time span of the Universities existence, its students have organized number of events in fields of art, culture, language, media, sports, science technology etc. In the year 2019-20 there were total 70 student chapters and clubs, which conducted around 225 Intra-University, Inter University and National level events. The students' organizations in PDPU are broadly categorized as: Social Cultural, Science Technical and Sports. The activities

at the OSAIL are largely driven by Student Clubs, Student Chapters of professional societies and each focusing on different aspects of art, culture, or science—as well as a theater, film archive, robotics, and photography. Many Clubs host exciting programs, lectures, classes and activities for students throughout the year. From theatrical plays and musical performances to robo-wars and guest speakers, students can find a breathtaking range of university sponsored activities that will expand students' world view and enrich their life. With support and mentoring of the office, students organizes various inter college and intra college sports, culture, technical and social events. 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 present as a member in various academic bodies such as IQAC and Board of Studies of every department. Students are also present in various administrative committees such as anti-ragging committee, canteen committee, women cell etc. In all such academic and administrative bodies/committees student provides their valuable contributions to improve the academics and campus life.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of registered Alumni:

0

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

NA

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

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

i) Delegation of financial powers to the School Directors. ii) Leave grant of faculty and staff at the level of HoDs. iii) Representation of faculty and staff in Internal Complain Committee, Grievance Redressal Committee, Disciplinary Committee and Anti Ragging Committee. iv) Representation of faculty, staff and alumni in IQAC of the University. v) Faculty participation in curriculum development through the Board of Studies and other statutory committees of the University. vi) Annual Performance Goal-sheet is developed through the inputs sought from the HoDs/Deans and Directors.

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

Yes

6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Admission of Students	Bachelor of Technology: i) Government

Seats (50): For the purpose of admission on Gujarat Seats, a candidate has to apply at ACPC as per ACPC norms.

ii) All India Seats (35): Admissions are provided based on merit list of marks obtained in JEE (Main) 2021.

iii) NRI seats (15) : Seats shall be filled as per merit. B.B.A.,B.A., B.COM(HONS.), B.SC(HONS.): Admissions are given based on the merit list of the entrance test conducted by the institutes.

Management Programs: Admissions are given based on the merit list of CAT, NMAT.

Human Resource Management

University has separate Human Resource (HR) Department to recruit faculty and staff to maintain the academic standard and fulfill the statutory norms. University is following MHRD guidelines for recruitment of faculty members. HR policy of the university tries to attract the best National and International faculty to the University. It also offers performance-based incentives to the appointed faculty. University has well defined service rules, promotion policy and career advancement policies. The faculty members are provided with Cumulative Professional Development Allowances for their professional development through attending FDPs, attending the conferences, industrial trainings etc.

Teaching and Learning

The teaching and learning at university happens preliminary through lectures, tutorials, laboratory, internships and project works. The Outcome Based Education system is followed across all schools of the university, where every course has Course Outcomes which are mapped with Program Outcomes and Program Specific Outcomes. The course handout is provided to the students in the beginning of the semester and assessment tools are used to see the learning of the students and measuring the course outcomes. The pedagogy has three verticals, experiential learning students undergoes through internships, field trips, project work, case study based learning Participative learning where student participates in group discussion, presentations, debates, role play, works shops and seminars etc. All the faculty members are using

ICT enable teaching through google class, flipped class, NPTEL (SWAYAM) courses, Audio and Videos etc. Introduction of Honor / Minor degree if a student completes an additional 20 credits through MOOCs or other, along with the Major Degree.

Curriculum Development

The curriculum development is a continuous process at our University. University has well defined structure and regulatory bodies for curriculum development. Curriculum design and up-gradation is back bone for any academic institute and hence the frequency of Board of Studies (BoS) council meet is twice in a year now. The entire curriculum is designed based on Outcomes Based Education (OBE). After getting feedback from all the stakeholders i.e. industries, academic experts, students, alumni etc., the recommendations are taken up in the department level meeting for integration in curriculum, approval in of Board of Studies (BoS) council meet and finally presented in Academic Council. The curriculum of all the programs across the university is revised during the year to meet the requirement of Industry 4.0

Examination and Evaluation

1. Academic Rules highlighting the evaluation process and other relevant information are published on the website. 2. The evaluation rules are made in advance to the newly admitted students in the form of 'Student Handbook' at the beginning of the academic year. The faculty members also provide their inputs about their course evaluation process. 3. The Outcome Based Education system is followed across all schools of the university, where every course has Course Outcomes (COs) which are mapped with Program Outcomes (POs) and Program Specific Outcomes (PSOs). 4. To assess the academic performance of students, a continuous evaluation system is followed. At the end of each semester, each student is awarded a letter grade in each courses by the concerned teacher, based on his/her performance in mid-semester examination, end-semester examination, tests, assignments, tutorials, laboratory work, seminars, projects, etc.. 5. The evaluation system is very transparent.

Paper solutions are provided to the students, evaluated answer sheets are shown to the students before declaration of the result within the prescribed time limit/as per the Academic Calendar.

Research and Development

A Office of Research and Sponsored Programs (ORSP) is established to provide support for the internal funded grants, pre-award and post-award support for externally funded grants and support information on grant compliance. The University endeavors for 1. Development of research strategy through Research Advisory Board (RAB). 2. Collaboration with Industry to promote research. 3. Collaboration with national and international universities to promote. 4. Seed money to student and faculty for undertaking research projects. 5. Patents Registration. 6. Promoting Innovation Incubation Centre.

Library, ICT and Physical Infrastructure / Instrumentation

The campus is speeded over 98 acres of land, landscaping, well equipped state of art academic and research laboratories, fully air-conditioned classrooms, lecture theaters, auditorium of 470 capacity, cafeteria, sports ground, 24x7 medical facility, on campus state bank of India bank facility, stationary and reprographic faculty, CCTV surveillance, Boys and Girls hostels, fully automated virtually connected 03 libraries. The entire campus is Wi-Fi enabled with LAN connectivity. The classrooms are equipped with multimedia and audiovisual equipment to facilitate effective learning. The libraries of the University provide the ideal ambience for production dissemination of knowledge, information, insights intellect across Schools of the University. The Library holds a huge collection of printed as well electronic resources which include books, journals, databases, e-books, e-journals, CDs/DVDs, reports, case studies, conference proceedings, training manuals, etc. The university has world class sports facility which includes a volleyball court, a tennis court, a basketball court, a football and cricket ground, a table-tennis room etc. Usage of ICT tools (Google classroom, Canvas, Kahoot, Prezi) for teaching and evaluation. Subscription

of Scopus database.

Industry Interaction / Collaboration

1. The University has very strong hand-holding with industries in terms of collaborative research projects, guest lectures, recruitments, presence on Board of Studies, adjunct faculty members etc. 2. Industrial orientation, industrial training and comprehensive project works are credited internships and project works where students work with industries. 3. 10 percent of course content for every course is taught by the industry experts which provides ample opportunity for students to learn industry operations and practices. 4. University organizes HR Conclaves where senior industry persons share their views on need of industries in terms of technological development, skill sets of graduates and future technologies. 5. Guest lectures, workshops, seminars are routine practices at various departments of university where industry persons contribute and share their subject knowledge.

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

E-governance area	Details
Administration	(1) Online admission system (2) TCSiON campus management system (3) Biometric attendance system
Finance and Accounts	(1) Employees Salary transfers directly to their bank account. (2) Online Pay slip generation (3) Data management by software. (4) e-Tendering for Procurement
Student Admission and Support	(1) Online Admission through No Paper Form (2) Email system for certificate request. (3) Circulars Notices have been informed through emails (4) Online fees payment (5) Student profile on TCSiON (6) TCSiON as LMS
Examination	(1) Online exam registration through TCSiON (2) Online Result declaration on TCSiON
Planning and Development	University has implemented Employees' Appraisal System through TCSiON online system, which covers the list of performance parameters employee wise, employee's description of the work done during the year, weightage for every performance parameter, evaluation points earned from Reporting/Reviewing Officers. The system also calculates

finally the sum total of performance score secured by very employee. Based on final score, the Central Committee reviews it and decides on performance incentive to be awarded to the respective employee. (2) Employee Leave Management and Group Insurance are administered on TCSiON (4) Hostel admissions for students through TCSiON (5) In-house Online platform RIMS for faculty publication, research projects and extension activities management.

6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Debasis Sarkar	14th Organization Technology and Management Conference	University of Zagreb	98000
2019	Anurag Kandya	European International Conference on Transforming Urban System (EICTUS-2019)	Strasbourg University	95318
2020	Swapnil Dharaskar	2th International Engineering Research Conference	Engineering Research and Publication (IFERP)	28000
2019	Sukanta Dash	International Conference on Energy And Infrastructure management	Pandit Deendayal Petroleum University	12290
2020	Pravin Kodgire	1st International Conference on Mathematical Modeling, Computational Intelligence Techniques and Renewable Energy (MMCITRE 2020)	Pandit Deendayal Petroleum University	5000
2019	Dr. Dadi V. Suriapparao Dadi	Recent advances in sustainability	Ganpat University	16695

2019	Bharti Saini	International Conference on Sustainable Technologies for Desalination National Water Mission and Annual Congress of InDA (InDACON-2020)	InDACON-2020	15000
2020	ASHISH UNNARKAT	Virtual Conference on Materials for Energy Harvesting and Catalysis	Catalysis	5000
2020	Anirban Dey	4th International Conference on Sustainable energy and environmental challenges	CSIR-NERRI Nagpur	26000
2019	ABHISHEK KUMAR GUPTA	Physical Aspects of Polymer Science 2019	Polymer Science	80000

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6.3.2 – Number of professional development / administrative training programmes organized by the University for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	Faculty Induction Program	NA	15/07/2019	21/07/2019	33	Nil
2019	Intellectual Property Rights Workshop	NA	07/09/2019	07/09/2019	15	Nil
2019	Staff Development Program on 'Team Building Leadership'	Staff Development Program on 'Team Building Leadership'	20/09/2019	21/09/2019	15	13
2019	Staff De	NA			25	Nil

velopment Program on 'Empower Yourself'	28/02/2020	01/03/2020		
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
QASPIR-Online Learning workshop for Faculty	2	01/04/2020	03/04/2020	03
Faculty Induction Program (FIP 2019)	6	15/07/2019	20/07/2019	06
QASPIR-Online Learning workshop for Faculty	4	15/04/2020	17/04/2020	03
Five days online Faculty Development Programme (FDP) on "Advancements in Phase Change Material Based Thermal and Renewable Energy Techniques"	1	01/06/2020	05/06/2020	05
One week online training programme on "Experiences in Solar Energy: Challenges and Opportunities"	1	08/06/2020	13/06/2020	06
Faculty Development Programme (FDP) on "Chemical Engineering towards Sustainability and Process Intensification"	1	15/06/2020	17/06/2020	03
Five Days training programme on	1	01/06/2020	05/06/2020	05

"Rainwater harvesting" conducted by International Clean Water Centre, Indian Institute of Technology, Madras				
Workshop on "Research Methodology" organized by Pandit Deendayal Energy University, Gandhinagar	8	05/05/2020	07/05/2020	03
"Fundamentals of Outcome Based Education" organized by Inpods, India	1	28/03/2020	28/03/2020	01
Online learning for Faculty	2	01/04/2020	03/04/2020	03

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
56	138	Nil	23

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
1) CPDA (Cumulative Professional Development Allowance) of INR 100000 p.a. is provided to all faculties in a block of three years, to present their research papers in National and International conferences, subscribing to research journals, membership in academic bodies and also for book purchase. 2) Faculty are also nominated for prestigious conferences and training program, and also to accompany students for its	1) Non-teaching staff is also deputed for training programmes relevant to their skill development. 2) INR 30,000/- per annum towards medical reimbursement (For Self and dependent family members) to all those who are on regular scale of pay. 3) INR 5,00,000/- medical insurance for Self and dependent family members for all faculty and staff members. 4) ? Contributory Provident Fund @ 12 (of Pay Grade Pay DA) to all those who	1. Students are encouraged to present papers abroad and in India, with financial support. 2. Opportunity for short term study visit to the foreign universities under International Exposure Programme as Summer Internship, with financial support. 3. Provision of seeing the evaluated answer books with the evaluating teacher 4. Scholarships for UG and PG Engg. students 5. Scholarships to Full Time Ph. D.

International Exposure Program. 3) Each faculty is given laptop/desktop and other IT facilities for education and research. 4) INR 30,000/- per annum towards medical reimbursement (For Self and dependent family members) to all those who are on regular scale of pay. 5) INR 5,00,000/- medical insurance for Self and dependent family members for all faculty and staff members. 6) INR 5,00,000/- group personal accident insurance for all faculty and staff members. 7) ?

Contributory Provident Fund @ 12 (of Pay Grade Pay DA) to all those who are on regular scale of pay and for the others as per the EPF Act, not limited to INR 15000/- p.m. per employee. 8) INR 27,000/- per child (per annum) (for maximum two children) towards children education allowance to all those who are on regular scale of pay. 9) Leave Travel Concession for visit to Home town and Anywhere in India to all those who are on regular scale of pay as per GoI rules. 10) Leave encashment as per Govt. of India norms for faculty on regular scale. 11) Payment of Gratuity as per Gratuity Act. 12) Subsidized housing facility in vicinity of the campus.

are on regular scale of pay and for the others as per the EPF Act, not limited to Rs 15000/- p.m. per employee.

students 6. Nationalised Bank on the campus 7. The medical centre with an Ambulance on campus (247) 8. Medical doctor available on all the week days. 9. Full time students' psychological counsellor. 10. Women's cell, Students' clubs 11. Grievance Redressal under the supervision and monitoring of the Dean-Students' Affairs 12. Lawn tennis Courts, Football courts, basketball courts, volleyball courts. 13. Cafeteria services at reasonable cost 14. 1 Gbps Internet Facility provided by BSNL, managed by NIC under MHRD scheme 15. 50 GB Wi-Fi facilities for students and employees

6.4 – Financial Management and Resource Mobilization

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

The University follows two fold financial audit i.e. Financial Internal Audit by Chartered Accountant Agency and Financial External Audit by Chartered Accountant Agency. The internal audit is conducted @ 100 vouching of Books of Accounts of the University and its constituent schools. External audit is conducted @ 100 as far as expenditure fee revenue is concerned. The University also mobilized revenue from Hostel Fee receipts and partial extension services

to the allied industries towards Testing Service, Consultancy Services, MDP/Workshop/Conference Services etc.

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

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
N.A.	0	N.A.
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6.4.3 – Total corpus fund generated

0

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	External BoS Members	Yes	Board of Studies
Administrative	Yes	Financial Audit	Yes	University Office

6.5.2 – What efforts are made by the University to promote autonomy in the affiliated/constituent colleges? (if applicable)

Not Applicable

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

(1) Parents are informed about the progress of their wards. (2) Organizing Open House for guardians to discuss the progress, grievances or issues of students. (3) The guardians are encouraged to understand the transparency of the system and involve themselves in tracking the academic performance of their wards.
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6.5.4 – Development programmes for support staff (at least three)

1) The support staff is encouraged to undertake various development courses from time to time to enhance their job competence. They are also provided facilities to undertake the courses found fit to cope up with the duties they are performing at the institute/ department to update their information and skill level regularly with all this, they get more work exposure related training/demands or with the development in university/faculty facilities e.g. accounts, online admission, information systems, etc. 2) Administrative Staff participates on regular basis for computer skills enhancement 3) Training for online admission and examination processes was conducted. 4) Training for generating online students records for admission and evaluation purpose

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

6.5.5 - Post Accreditation initiative(s) (mention at least three) 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: i. Merit Scholarship: Half Tuition Fee Waiver (w.e.f. 1st Semester): For SC ST Category Students pursuing B. Tech. programme ii. Merit Scholarship: Half Tuition Fee Waiver (w.e.f. 1st Semester): For Female students iii. Merit-cum-Means Scholarship: Half Tuition Fee Waiver (w.e.f. 4th Semester) - For Diploma to Degree Engg. students. iv. Interest Subsidy for Economically
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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: i. M. Sc. (Finance) ii. M. Tech. (Petroleum Technology (Exploration)) iii. M. Tech. (Civil Engineering (Transportation Engineering)) iv. M. Tech. (Mechanical Engineering (Manufacturing)) 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: i. Study in India Program (SIP) ii. Semester Exchange Abroad Program iii. Faculty with Foreign Exposure

6.5.6 – Internal Quality Assurance System Details

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

6.5.7 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Open source courses	19/08/2019	22/08/2019	15/05/2020	559
2019	Capsule Courses	19/08/2019	12/09/2019	23/02/2020	789
2019	ICT enabled learning	11/11/2019	06/01/2020	15/05/2020	220
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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

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

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Orientation Session for Gender Equality and Safety for Batch 2019	26/07/2019	26/07/2019	265	312
Self Defense Workshop With Fire And Security Association Of	06/09/2019	06/09/2019	40	Nil

India				
Gender Equality And Safety	21/10/2019	21/10/2019	55	15
Sort of A Feminist	18/11/2019	18/11/2019	32	7
Women's Health Education-Transforming Community	05/03/2020	05/03/2020	67	12

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

Percentage of power requirement of the University met by the renewable energy sources
<p>Environmental Consciousness and Sustainability/Alternate Energy initiatives such as: • 1.0 MW (One mega watt) solar power station to demonstrate green and clean energy and to lower the energy dependence. • Sewerage Treatment Plant: 02 Nos. (300 KLD each) • Rain Water Harvesting:12 percolation wells (20 KL/Hr each) • Solar Research Development Centre • Centre of Excellence for Biofuel and Bioenergy Studies • Centre of Excellence for Geothermal Energy • Glass windows and partitions for effective light and reducing electricity consumption. • Paperless environment with extensive use of E-communication. • Solar street lights across the campus. • Approximately 30,000 units total energy consumption at campus is produced from renewable energy sources (Solar Roof-top: 650 kW Capacity)</p>

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	8
Provision for lift	Yes	8
Ramp/Rails	Yes	8
Rest Rooms	Yes	8
Scribes for examination	Yes	8
Special skill development for differently abled students	Yes	8

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	1	04/07/2019	1	Visit from students of surrounding school	Awareness for young generation about renewable	75

						energy source	
2019	1	1	13/05/2019	21	Vacation Workshop 2019 for children of Valad, Jethipura , Premdhara School, Shahpur - CDI	Skill based Education for Under privileged kids	353
2020	1	1	16/01/2020	15	Swachhta Pakhwada - Cleanliness Drive for Surrounding Village - Valad	Importance of Cleanliness and community development	567
2019	1	1	09/11/2020	1	Tessrunn - A 8k run for cause	Bringing joy to women or kinds of surrounding village by spending a day with them	453
2020	1	1	14/02/2020	1	Unn Dino Ki Baatein - Visit to surrounding old age home	students spend time with old age people and take useful gifts for them	51

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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Academic conduct discipline (for students)	15/07/2019	Academic conduct discipline (for students) was published in year 2007. The disciplinary committee takes care of

		the cases of students violating the values and ethics as mentioned in the rules.
Professional code of conduct (for employees)	15/07/2019	Professional code of conduct (for employees) 2016. The HoD, School Director and the Head of Institution ensures the observance of professional code of conduct from the employees. The University follows student satisfaction serve for faculty.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Capsule course on Global Citizenship is modelled on the UNESCO SDG goal of providing understanding of Global Citizenship and inclusivity to the students.	08/04/2019	09/04/2019	35
School of Liberal Studies- PDPU organised its 7th Study in India (short term pan India) Program, focused on 'Psychology, Gender and Policy Perspective in Indian Culture'. Ten delegates from Canada-India Center of Excellence, Carleton University, Otta	29/04/2019	11/05/2019	10
Green Teachers Training Program was organized by Green Mentors jointly with School of Liberal Studies- PDPU, attended by 60 delegates from different states of India.	06/05/2019	08/05/2019	60
The second year students of Law and	16/10/2019	16/10/2019	12

<p>Governance conducted a presentation of the posters to create an awareness against domestic violence, with theme on 'Prevention of Women against Domestic Violence' to sensitize the public about the current scenario</p>			
<p>One Day visit to Cohesion Foundation Trust (CTF), Lakhtar and Sanand Mahila Vikas Sangathan, Sanand rural region of Gujarat for the public administration students of semester-7, as a part of the course curriculum on Administration of Non-Government/N</p>	14/11/2019	14/11/2019	15
<p>The 8th Study in India Short Term Program (pan India) -"Working in Cross Cultural Context Considering People, Behaviour and Communication", for the students and faculty members from Sacred Heart University (SHU), Connecticut, USA.</p>	19/12/2019	10/01/2020	20
<p>Rural Internship - First Year Students of School of Liberal Studies, assigned in 7 NGOs across Gujarat.</p>	02/01/2020	22/01/2020	436
<p>CIVIC SOCIAL SERVICE INTERNSHIP - First Year students of School of Technology, assigned across 158 organizations.</p>	16/06/2020	10/07/2020	633

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

1) Sewerage Treatment Plant: 02 Nos. (300 KLD each) 2) 1.0 MW (One mega watt) solar power generation plant. 3) Rain Water Harvesting:12 percolation wells (20 KL/Hr each) 4) 1500 Trees on campus 5) Students are encouraged for use of bicycles to commute to nearby locations. University had bought bicycles and offers it on rental basis to the students. 6) Minimum use, maximum reuse and safe disposal of plastic waste. 7) Usage of extensive Glass work for effective light and reducing electricity consumption. 8) Extensive use of E-communication reduces paper consumption. 9) Solar street lights across the campus. 10) Academic sessions run continuously in winter session for it requires less electrical energy, and in summer as it involves more use of fans and A.C.s most of the annual vacation days are accommodated in summer. 11) Bath water heating through solar power for hostel students.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice No. 1 Title of the Practice: Internationalization of Education
Objectives of the Practice: 1. To develop global professionals by providing international educational exchange to university students 2. To create visibility of university in global educational scenario by collaborating with other reputed institutions and student exchange programs. 3. 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 Context:** The vision of the university is to be an efficient and competent source of technical manpower for the current and future industrial requirements. University focuses primarily on grooming the students and enhancing their academic and inter personal skill sets and finally making them a wise human being and global citizens. Internationalization of education is the top stage to improve the quality of education and becoming globally competent. The knowledge translation and acquisition, mobilization of talent in support of global research and enchantment of the curriculum with international content are the benefits of internationalization of higher education. **The Practice:** A. Study in India Program (SIP): To stimulate Internationalization on campus, PDPU has initiated "Study in India Program (SIP)" which is customized short term programs framed in 02-12 weeks designed to focus international diasporas to expose them to various facets of India. The principal objective of this interdisciplinary course is to provide a basic understanding of the Indian society and how it grew, its cultural heritage, political, social and economic scenario and its growing important role in the world affairs. The beauty of the program lies in its interdisciplinary nature which aims at demonstrating the multifaceted and variegated Indian religions and cultures. PDPU has successfully organized 8 such SIPs with 4 unique International partners given exposure to 100 international students faculties. B. International Student Fraternity: The University strives to enhance cultural diversity on campus and value its contribution in the learning experience. The University has become an institution of international repute and resonates with innovation, research, contemporary pedagogy, vibrant campus more than 160 fulltime students from more than 20 different countries i.e. Afghanistan, Bangladesh, Bhutan, Cameroon, Ethiopia, Fiji, Ivory Coast, Kenya, Mozambique, Nepal, Philippines, Rwanda, Sri Lanka, Syria, Tanzania, Uganda, Yemen, Zimbabwe, USA, Canada, etc. PDPU also hosted more than 450 international students in the short-term programs like Study in India AIESEC Inbound. C. Semester Exchange Abroad Program: Through study abroad/exchange program, enhancing four skill areas of students: The academic/intellectual, The professional, The personal and The inter-cultural

enhancing the academic visibility of individual as well as organization.

Students are getting financial support in terms of US State Department Scholarship or University Scholarship. Till now, total 27 students have been benefitted from this initiative. D. Travel Grant Initiative: Travel grant scholarships are provided to the students of the University for International and National paper presentations. Office of International Relations has always been a catalyst in supporting research and academic activities among its students. As a result, students sailed offshore and presented their scholarly work at various conferences. By availing travel grant policy many of PDPU students have presented papers in the countries like UK, Spain, Singapore, Malaysia, Dubai, USA, Bahrain, China, Sweden, Oman, Egypt, Canada, Thailand, Sri Lanka, Germany, etc. Around 158 students have taken benefit of travel grant support for year 2019-20. E. Faculty with Foreign Exposure: University recruits faculty members from IITs, NIITs and reputed universities at abroad. University has more than 30 faculty members who have more than three year of education or research experience from universities at abroad in terms of doctorate degree or post doctoral studies. Evidence of Success: 1. 175 foreign students are on campus perusing fulltime UG and PG programs at our university 2. PDPU has successfully organized 8 such SIPs with 4 unique International partners given exposure to 100 international students faculties. 3. 50 foreign students completed internship under AIESEC Inbound program and 75 students of PDPU have completed internship at foreign universities under AIESEC Outbound program 4. Around 158 students have taken benefit of travel grant support for year 2019-20. 5. More than 30 faculty members who have more than three year of education or research experience from universities at abroad in terms of doctorate degree or post doctoral studies. 6. Collaborative research projects and joint publications with Universities at abroad Problems Encountered and Resources Required 1. Some of the challenges faced by international students are a language barrier, culture shock, homesickness, or financial issues. 2. Credit transfer 3. Relocation of foreign faculty members in India Best Practice No. 2 Title of the Practice: Introduction of Capsule Courses Objectives of the Practice: Capsule courses are introduced to improve the competency and employment quotient of the students. The nature of such courses will be so as to equip students for peripheral and futuristic skills and knowledge to enhance their employability and understanding of the subject. The Context: Capsule courses offered are on General Accounts/Finance/Human Relations/Public Administration/Energy Value Chain/Environmental Management/ Business Communications and alike. The introduction of the Capsule courses would help students in inter-disciplinary learning and generation of employability. The Practice: 1. The Capsule courses are taught by industry professionals on General Accounts, Finance, Human Relations, Public Administration, Energy Value Chain, Environmental, Management, Business Communications, industrial safety and alike. 2. The students are require to pass minimum three capsule courses during to qualify for their graduation. 3. The capsule courses are other than regular credit courses which are offered during the weekends. 4. List of the capsule courses planned out: a) Fundamentals of Finance b) Happiness c) Introduction to Python Programming d) Accounting for Managerial Decisions e) Principles and practice of Management f) Public Service Delivery, g) Introduction to Electric Vehicles, h) Lean System, i) Business Etiquette Social Etiquette Performance Enhancement Course, j) Smart Cities k) Project Management l) Global Citizenship m) Supply Chain Management n) Solar Energy Technologies o) Internet of things p) Artificial Intelligence q) Robotics r) Renewable Energy Engineering Evidence of Success: For A.Y. 2019-20, fourteen capsule courses were offered in which 789 student participated. The details of the capsule courses are given below. Sr. No. Name of the Capsule Course Number of students enrolled 1 Introduction to Graphic Designing with In-design Software 51 2 Articulation and Creative writing 21 3 Accounting for Managerial Decisions 25 4 Artificial Intelligence and New Business Horizons 65 5 New Age Banking 52

6 Introduction to PYTHON PROGRAMMING 69 7 Artificial Intelligence Machine Learning 61 8 Robotics 40 9 Internet of things 78 10 Financial Innovation Fundamentals of Finance 70 11 Dynamics of Family Business and Sustainability 40 12 Project Management 85 13 Design Thinking 30 14 Lean Management 102 Total Student 789 Problems Encountered and Resources Required 1. Participation of industry professionals in offering capsule courses.

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

https://www.pdpu.ac.in/downloads/7.2.1_Institutional%20Best%20Practices.pdf

7.3 – Institutional Distinctiveness

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

One of the visions of this University is to become a globally recognized University in all forms of Energy Research. PDPU in 2019-20 converted lab scale research to field scale research in the areas of solar energy, biofuel energy, natural gas, drilling and stimulation of hydrocarbon reservoirs, wind energy, geothermal energy etc. During July to June, 2019-20 one such thrust area of research which was demonstrated in the field was in the area of geothermal energy. Research in geothermal energy is in nascent stage in India. Not many institutes, both public and private ventured in this area. India has low enthalpy subsurface energy and exploring and extracting is limited. PDPU under the aegis of Government of Gujarat has done extensive exploration and exploitation activities in the domain of geothermal energy. About 17 hot water spots have been identified in Gujarat by conducting extensive exploration activities and drilled two geothermal wells in Dholera, Gujarat. It established Space Heating and Cooling setup based on geothermal water and demonstrated comfort cooling in a prayer room of a temple. The capacity of the setup is 32 TR. In the mentioned period PDPU has drilled the hottest well in Unai, Gujarat where the surface temperature recorded was 70 degree Celsius and also an injection geothermal well in Dholera. It also integrated the Space Heating and Cooling setup with an Organic Rankine Cycle for sustainable power generation in the order of 20KW. This is the only demonstration plant producing electricity in Gujarat and most probably in India. In another renewable energy demonstration, bio fuel was produced from non edible oil, algae and waste tire pyrolysis. The kinematics of the oil produced was studied and blended in different proportion with natural oil. The initial result was found to be encouraging. Compounds tested included a variety of saturated, monounsaturated, diunsaturated and triunsaturated fatty esters. In the field of Solar Energy PDPU continued field research activity in the 1MW solar power plant created in the premises of PDPU. Enormous amount of data were collected. Research on solar thermal collectors, offered solar applications, grid solar power, modeling of optimum reflector continued. In the drilling, cementation and stimulation lab field scale research on proppant conductivity, diverters and High Pressure High Temperature Cement studies were conducted. This showcased once again the type of field scale demonstration PDPU has conducted during this period also in the conventional hydrocarbon sector. This is the third best laboratory probably in the world. In short, research thrust areas in Renewable and Non Renewable areas scaled height in the above mentioned period in PDPU.

Provide the weblink of the institution

<https://www.pdpu.ac.in/downloads/7.3.1%20%20Institutional%20Distinctiveness.pdf>

8.Future Plans of Actions for Next Academic Year

i) To devise and implement Industry 4.0 based new academic curriculum ii) To introduce new academic programs at UG and PG levels of professional study. iii)

To submit the details for application of Centre of Excellence scheme floated by the State Government. iv) To enhance research related outcome in support of raising NIRF ranking. v) To apply for the first time AICTE approval to MBA program run by the School of Petroleum Management (SPM).