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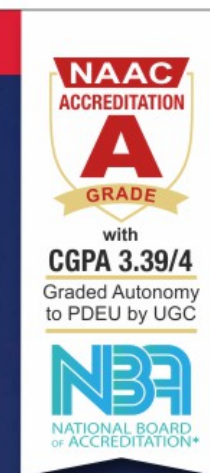
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PDEU PANDIT DEENDAYAL ENERGY UNIVERSITY
 GANDHINAGAR, GUJARAT
 Formerly Pandit Deendayal Petroleum University (PDPU)



*Department of Mechanical Engineering



About PDEU

Pandit Deendayal Energy University is located in Gandhinagar, the Capital city of Gujarat with 100 acres Campus. PDEU has been established as a Private University through the State Act enacted on 4th April, 2007. It has been promoted by Government, Industry & Energy Companies to create a world class University in energy education and research with special focus on the oil and gas sector. The University offers programs in the field of Engineering & Technology, Management, Humanities and Sciences.

Vision

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

Mission

Undertake unique obligation for Education in Energy Engineering and Management with special responsibilities in domain specific aspects of Energy & Infrastructure.

Seek to nurture students of extraordinary motivation and ability and prepare them for life-long learning and leadership in an increasingly knowledge driven world.

Envisage to establish institutes of excellence in education, competitive edge in research and real time relevance with futuristic thrusts in offering of programmes and undertaking of activities and projects.

Transformation of PDPU to PDEU Year 2021



"I am glad to see PDPU is creating its own identity, not just in the country but also in the world. And I am very proud to see that this university is far ahead of its time. In the last one-and-a-half decades, the PDPU has expanded in many spheres, including the energy spectrum, besides the petroleum sector. Given the progress of PDPU today, I would request the Gujarat Government to rename it from Petroleum University to Energy University by amending laws".

Hon'ble Prime Minister of India Shri Narendra Modi

(8th Convocation Address of Pandit Deendayal Petroleum University)

Learning and Growing - A collaborative enterprise in Digital Age



In my close association with the field of education in recent years, I have observed that while institutions are built on the pillars of faculty, research, infrastructure, collaborative and administrative strengths, it is affirmed that it is only a passion for excellence which elevates it to a high order.

I feel greatly inspired when I see Pandit Deendayal Energy University evolve into an institution which can hand-hold students through a transformational journey where knowledge is acquired while nurturing excellent human values, where learning has moved beyond the classroom - all proving to be priceless assets in one's professional life. As citizens of this great nation, and as part of a greater world order, where socio-economic dynamics are undergoing rapid change, and the fact that India's youth will increasingly play a key role in the global scheme of things, I can sense great optimism in the air.

PDEU's holistic education philosophy across the programs of management, engineering and liberal arts proves crucial for it helps to

create a fine talent pool that can make a vital difference in the way they address their professional roles.

My best wishes to all of you and I hope that the corporate world will respond with great enthusiasm on assessing your professional capabilities.

I have always believed that just physical infrastructure of an institution does not make it world class. It is the intellectual infrastructure that matters more. It is the faculty members who have made our institution a Centre of Excellence.

Dr. Mukesh Ambani

Founder President & Chairman BoG

Innovation for Industry 4.0 and beyond



PDEU has developed a vibrant campus with advanced facilities and technologies on its campus. It has set up State of the art Laboratories in each discipline with support of Industries, Knowledge partners and internationally renowned University partners. The University has also developed cutting edge digital infrastructure with up to date research and educational curriculum to promote and facilitate research and learnings.

Students have shown tremendous talent and innovation in the field of education, learning & research and to build the Institute's reputation and recognition. PDEU also provides international exposure to its students to create values and cultivate their mind towards innovation by collaborating with reputed International Universities. Faculty with their experience and immense subject knowledge in specialized filed plays vital role in upbringing the student's development. At PDEU, researchers and students collaborate with industry and government to create innovative solutions merging engineering and creativity, theory

and practice, and University and society. Experts from Industry and Academia, Members from our Board of Studies provide scientific advice to craft the curriculum in order to meet industrial requirements.

University offers liberal scholarships & exposure and facilities to students and faculty compared with the best in Academics to nurture all-round talent. I welcome all to this reservoir of knowledge.

As there is a global quest for more efficiency through Industry 4.0, we are prepared with the opportunity of finding innovative solutions to these challenges, and becoming reservoir of knowledge for radical yet sustainable societal transformation.

Dr. S. Sundar Manoharan
Director General

Schools at PDEU

SOT
SCHOOL OF
TECHNOLOGY



The school is now embarking on the journey of Industry 4.0, digital transformation and sustainable development as the engine for growth through innovation, and is dedicated to building great careers. We are committed to delivering the best, being seen as the best and being the best.

Prof. Sunil Khanna

Director,
School of Technology (SOT)

SPT
SCHOOL OF
PETROLEUM
TECHNOLOGY



The school is a research-oriented institute believing in strong industry-academia connect. SPT has a good alumni base in Oil and Gas Industry. I feel proud to say that within a short span of time, SPT has built a good reputation with the industry and our placement is reflecting the same.

Dr. Rakeshkumar Vij

Director,
School of Petroleum Technology (SPT)

SLS
SCHOOL OF
LIBERAL
STUDIES



In order to expose students to current global challenges and solutions, crisp, industry-focused Transdisciplinary Capsule Courses from various domains and life skills are offered by PDEU to all undergraduate students across schools. The choice-based registrations for capsule courses help students hone their skills. PDEU also offers

Prof. Nigam Dave

Director,
School of Liberal Studies / Head - OIR

SPM
SCHOOL OF
PETROLEUM
MANAGEMENT



At SPM, the exposure of students to the world of Management through rigorous classroom training by our highly qualified faculty is supplemented with regular sessions from experts from business and industry. As a matter of fact SPM firmly believes in regular sessions by management practitioners as an essential part of good

Dr. C. Gopalkrishnan

Director
School of Petroleum Management



World's 2nd Largest
higher education
system



1st country
to execute
Mars mission in
first attempt

2nd largest
English Speaking
Population



"Atithi Devo Bhavah"
which means
"Guest are like God"



About India

India is one of the oldest civilizations in the world
with a kaleidoscopic variety and rich cultural heritage.
It has achieved all-round socio-economic progress
since its Independence.



The world's largest
sundial is located
in India



One of the largest
democracy in
the world

India has the
current tallest
statue in the world



The Origin of
Ayurveda and
Yoga



About the Twin Cities Gandhinagar & Ahmedabad

Ahmedabad, in western India, is the largest city in the state of Gujarat. The Sabarmati River runs through its center. This 600 years old city is India's first UNESCO World Heritage City and the commercial hub of the state of Gujarat, though it is not the state capital, which is its twin city Gandhinagar, 30 km to the north. The cities are a must visit places in India, if you are inclined to explore history, crafts, architecture and food. Incredible architecture, ranging from centuries-old mosques and mausoleums to cutting-edge contemporary designs are enough to give you the glimpse of co-existing contrary in the country.

The twin city is proud to have Institutions like Indian Institute of Management - Ahmedabad, Indian Institute of Technology- Gandhinagar, National Institute of Design, PDEU, MICA, EDI, Nirma University, Gujarat Law society, CEPT (Centre for Environmental Planning and Technology) University, NIFT and a few others. The place has become a landmark for good education practices.



Why PDEU



Students on
Campus
6518

Ph.D Scholars
223



Graded Autonomy
by UGC

Faculty and Staff
400+

Doctoral
Faculty
299



Recognition by Scientific
and Industrial Research
Organization (SIRO)

Investment in
R & D facilities
1,420
Million

University funded
student Research
projects
220

Students from
40
countries

Visiting
faculties
216

Recruiters
200+

Infrastructure

100 Acre
Green Campus



1380
Laboratory Equipments



Wi-Fi
Enabled Campus



3
Automated Libraries



61
Lecture Halls



Full Access
to Scopus & Web of science



53
Laboratories/Workshops



4 Dining Halls
2000 Sitting Capacity

Food
Courts



1048
Hostel Rooms with 2680 Student Capacity

Sports
& Recreational Facilities



Eco
Rides



Degree Program at PDEU

ENGINEERING

B.Tech.

- Petroleum Engineering
- Petrochemical Engineering
- Automobile Engineering
- Computer Engineering
- Electronics & Communication Engineering
- Information & Communication Technology
- Mechanical Engineering
- Chemical Engineering
- Civil Engineering
- Electrical Engineering

M.Tech.

- Petroleum Engineering
- Petroleum Technology (Exploration)
- Material Science & Engineering
- Nuclear Science and Technology
- Electrical Engineering (Power Systems)
- Energy Systems (Focused on Solar Energy)
- Mechanical Engineering (Thermal Engineering)
- Geotechnical and Geoenvironmental Energy
- Mechanical Engineering (Design)
- Mechanical Engineering (Manufacturing Technology)
- Environmental Engineering
- Civil Engineering (Infrastructure Engineering & Management)
- Civil Engineering (Transportation Engineering)
- Chemical Engineering
- Energy and Environmental Management
- Cyber Security
- Data Science

Ph.D

3 Years (Minimum)

ARTS & HUMANITIES

B.A. (Hons.) – 4 Years

- Economics
- English
- Governance & Public Administration
- Psychology
- International Relations
- Mass Communication
- Indic Studies
- Digital Humanities

M.A. – 2 Years

- Public Administration
- Political Science-International Relations
- English
- Psychology
- Economics
- Mass Communication

Ph.D

3 Years (Minimum)

MANAGEMENT

B.B.A. (Hons.) – 4 Years

- Marketing
- Human Resource Management
- Finance

MBA – 2 Years

- Energy & Infrastructure Management
- General Management (Marketing, Finance, Operations, Human Resource, Business Analytics (Minor))

Ph.D

3 Years (Minimum)

COMMERCE

B.Com. (Hons.) – 4 Years

- Finance & Accounting
- Banking & Insurance
- Marketing & Management
- Entrepreneurship & International Trade

SCIENCE

B.Sc. (Hons.) – 4 Years

- Physics
- Chemistry
- Mathematics

M.Sc. – 2 Years

- Physics
- Chemistry
- Mathematics
- Finance

Ph.D

3 Years (Minimum)



Centres of Excellence



International Automobile Center of Excellence (IACE)

Maruti Automobile Centre of Excellence (I-ACE) developed by **Maruti Suzuki India Limited** in association with the **Government of Gujarat** and PDEU as Knowledge Partner spreads over 9600 m2 and caters to the needs of the whole value chain of the Automotive Industry encompassing both Manufacturing and Servicing. The center will soon be developed into a world class institute to provide for the end to end training and development needs of the automobile ecosystem in India.

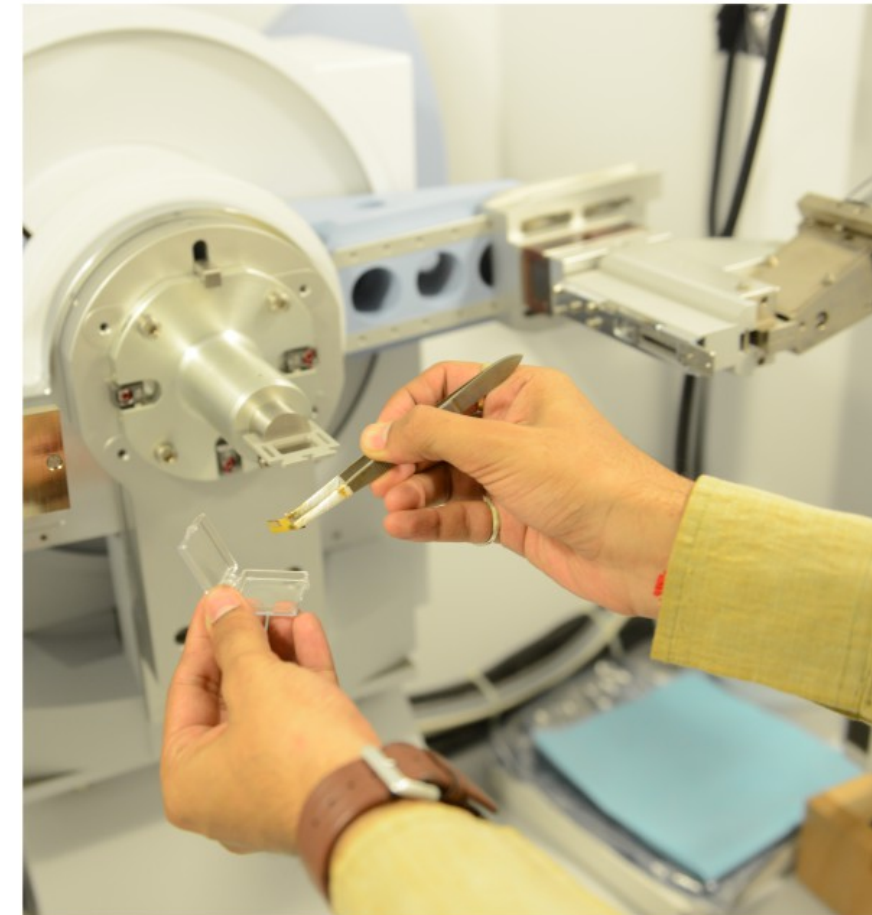
The center boasts of having the latest infrastructure and labs to provide practical learning experience to participants. It is supported by the expertise dispensed by industry-academia collaborations with Indian and foreign players to ensure the industry relevance of learning interventions.



1MW Solar Power Plant Integrated to the Grid

The ground-mount photo-voltaic (PV) power plant is the first of its kind in Gujarat with Multiple Technologies available at one place. It was implemented in 106 days in 2011.

It has Solar Radiation Resource Assessment (SRRA) and Advanced Measurement Stations (AMS) supported by NIWE to carry out assessment and quantification of solar radiation, data processing, quality of data, modeling and to support the making of solar atlas of the country. It also has facility for collection and analysis of solar and meteorological data that is crucial for research and developmental activities.



Solar Research Development Centre (SRDC)

Solar Research & Development Center was initially funded by Gujarat Energy Development Agency and has various technologies funded by Asian Development Bank, Ministry of New and Renewable Energy, Department of Science and Technology. It is the hub of research conducted in Material Characterization, New Material Development and Fabrication.

The center operates and maintains state-of-the-art facilities with more than 500 m2 area including facilities for housekeeping. It provides a versatile analytical, simulation and development platform that helps in utilizing a wide range of materials to develop solar cells as well as in developing advanced process equipment for thin film deposition, wafer cleaning and characterization.



Siemens Automotive Centre of Excellence

The Siemens CoE in Automotive, established in 2014, operates with the primary focus of creating a robust technical education eco-system through its experience in industrial products and services. There are nine sophisticated laboratories for Design and Validation, Advanced Manufacturing, Test and Optimization, Automation, Electrical and Energy savings, Process Instrumentation, Mechatronics, CNC Machines, CNC Controller, Robotics and Rapid Prototyping which provide opportunity for promising and prospective innovations.

This multi-faceted unique CoE offers skill development courses, internships, research and development assistance and industrial consultancy services across various sectors.

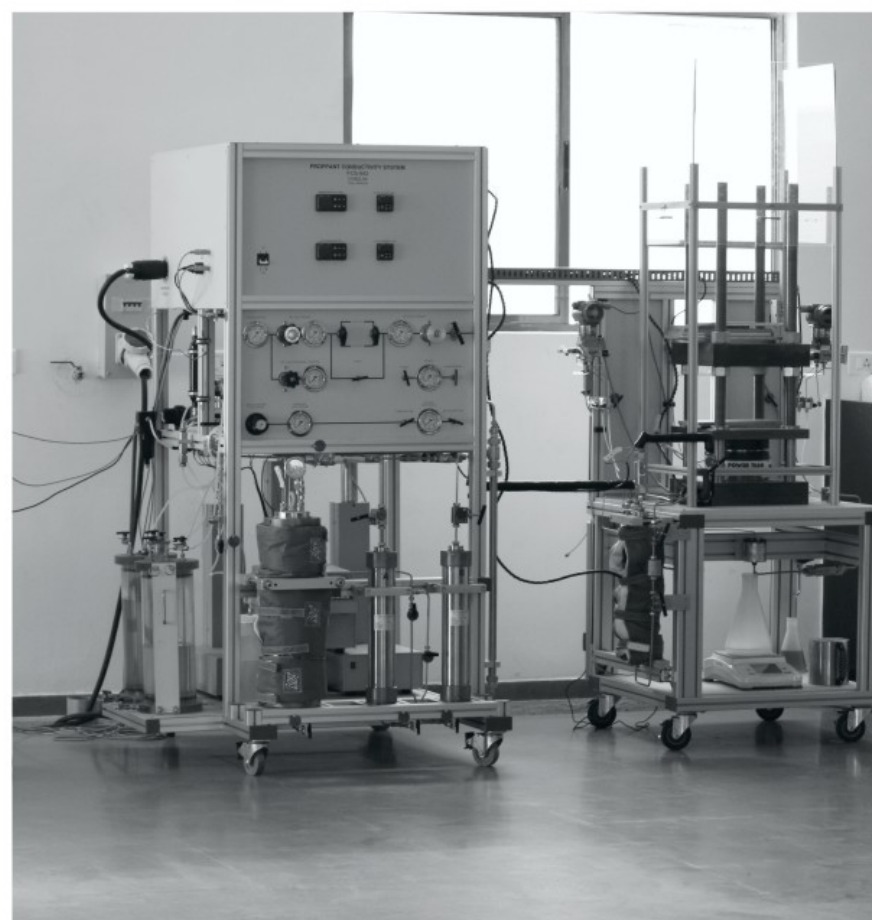


Centre of Excellence for Geothermal Energy (CEGE)

CEGE was founded in response to the national need for training, skilled manpower, research collaborations and supports the government on Policy Advisory with the required help from Gujarat Energy Development Agency, Government of Gujarat.

CEGE has conducted extensive exploration surveys for geothermal prospects identification in several parts of Gujarat and has drilled two shallow wells in Dholera. It has established the first of its kind project on direct applications for heating and cooling in Dholera and has demonstrated societal benefits such as honey-processing and Balneology using geothermal water.

CEGE is currently drilling its first medium depth well in Unai, Gujarat and is working with the Government of India committee involved in the drafting of roadmap for geothermal energy utilization in India.



Drilling, Cementing & Stimulation (DCS) Research Centre

DCS Research Center is established in the premise of PDEU under the aegis of Government of Gujarat and Gujarat State Petroleum Corporation Ltd. (GSPC) whose worth is around ` 10 crores currently. It is in alignment with the "Make in India" vision of our honorable Prime Minister Shri. Narendra Modi. It is utilized for the purpose of research, training and consultancy. It also helps the government of India in formulating various policies pertaining to the upstream petroleum industry.

Currently, the center focuses on research areas such as Enhanced Oil Recovery, Unconventionals, Stimulation (Hydraulic Fracturing and Proppant Performance evaluation), Flow Assurance, Formation Damage and Cementation. The centre has undertaken a consultancy worth Rs 1 crore in terms of ER screening and has conducted proppant testing amount to 3 lakhs. The research center also has several cutting edge research projects in production enhancement.



Centre for Bio-fuel & Bio-energy Studies (CBBS)

PDEU founded the Centre for Biofuels and Bioenergy Studies (CBBS) to strengthen the research base in bio-fuel and to promote the translation of process and technologies from research to scale up and commercialization. Faculty members and researchers are working in interdisciplinary areas related to bioenergy and biofuel production.

The centre has developed an expertise in designing energy efficient biodiesel processes and innovative designs. It focuses on the development of energy efficient biodiesel reactor unit that is capable of producing biodiesel from multi feed stocks which are easily available in our country thereby facilitating the reduction in dependency on imported fossil fuel and developing a sense of security and self-sufficiency in energy sector.



Centre of Excellence in Water Treatment & Waste Water Management

The overall aim of this centre is to develop, design and demonstrate high-recovery, low-cost water treatment systems for saline groundwater and for domestic and industrial waste waters. The focus for developments will be in the arid state of Gujarat, where surface water resources are very scarce. Cost-effective technologies and systems are proposed with the aim of lowering energy costs through dramatic improvements in energy efficiency, new bio-based approaches to water recycling, and use of renewable energy. Reject waste streams will be minimised or reduced to zero, thus protecting the environment. Funding of ₹ 11 Crores is invested in this centre.

Industry 4.0 Upcoming Projects



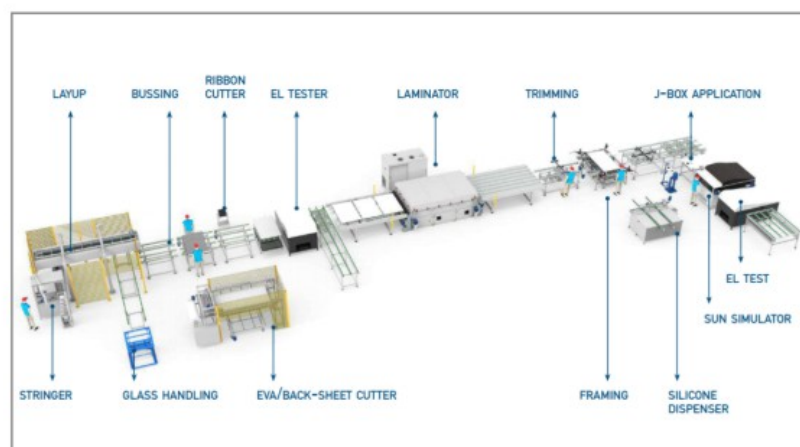
Vanadium Flow Battery Energy Storage

8 Cr



Advanced Manufacturing Technology Centre

12 Cr



45 MW Production Line

10 Cr



Urja Satellite

10 Cr

Research

Research is the core of all our academic programs. Process and product are created through the synergy of research, education, innovation and scientific advice by innovative researchers having a cutting edge in global collaborations. Research facilities, laboratories and Centres of Excellence at PDEU work together in developing and discovering new processes and products to actuate change and ignite innovation.

The research focuses on United Nations Sustainable Development Goals for developments towards Energy Security & Independence. Intensive research activities are carried out in the area of FEW (Fuel & Food, Energy & Environment, Water and Waste to Wealth) and in the application of Industry 4.0 standards to create a positive impact on people, planet, prosperity and partnership.

Faculty and researchers at PDEU passionately take right STEP (S – Social Engagements, T – Technology Development, E – Economic Model (PPP), P – Policy on Research & Innovation) to infuse the Youth for Tomorrow with significantly greater persistence, perseverance and competence and an never ceasing quest for the new and the latest.

154

IPR Filed

67

IPR Granted

46

Completed Projects

41

Ongoing Government & Private Sponsored Projects

220

University Funded Student Research Projects

₹1,430 Million

Investment in R&D facilities

PUBLICATIONS 2017-20



1039

Publications



22.39

Average Citation per paper for Top 25%

1.15

Field weighted Citation Impact

42.1%

Publication in Q1 Journals

17.6%

Top 10% most cited worldwide India - 8.8%

41%

Publications by PDEU researchers in last 3 years are co-published with researchers from abroad



Top 10

INTERNATIONAL CO-PUBLICATION COUNTRIES

Australia
Canada
China
Japan
Netherlands
Poland
South Africa
South Korea
Switzerland
United Kingdom
United States of America

Facts & Figures as per Scopus

Innovation & Incubation Centre (IIC)



PDEU Innovation & Incubation centre promotes a culture of entrepreneurship by providing mentoring, funding and infrastructure support to students to convert their ideas into a viable business.

Recognized as Nodal Institute by Govt. of Gujarat

Approved as Technology Business Incubator by Dept of Science and Technology, Govt of India

Registered as Startup India Incubator under DIPP (Department of Industrial Policy and Promotion, Govt. of India).

Supported by Student Start-up and Innovation Policy (SSIP) by Education Dept. of Govt. of Gujarat,

100+
Start ups

950+
Employment
Generation

60+
IPR Filed

USD 10+ Million
accumulated sales by Start Ups



Startups

Imagine Powertree Pvt. Ltd.

Date of establishment	January 01, 2016
Investment amount	₹ 15,59,400
Founder	Shani Pandya
Patents /IPPR Filed	16 Design protection (7 granted), 1 trademark



Saltech Design Labs Pvt. Ltd. (Recycler)

Date of establishment	October 01, 2017
Investment amount	₹ 21,20,000
Founder	Aditya Shukla
Co-founders	Sudhir shukla, Yogesh sharma
Patents /IPPR Filed	3 Trademarks, 2 patent (1 granted), 1 PCT



Seaveda Biotech Pvt. Ltd.

Date of establishment	April 01, 2017
Investment amount	₹ 19,20,000
Founder	Dr Krishna Kanta Ghara
Patents /IPPR Filed	1 patent filed



Inspyromer Edtech Pvt. Ltd. (I-Sparsh)

Date of establishment	October 01, 2018
Investment amount	₹ 20,00,000
Founder	Nirav Goswami
Co-founders	Nirav Pandya
Patents /IPPR Filed	2 patent, 4 trademark



Rhyno Wheels

Date of establishment	December 01, 2019
Investment amount	₹ 2,00,000
Founder	Vishal Dhamecha
Patents /IPPR Filed	1 Design Application granted



Internationalization



Office of International Relations

PDEU established the Office of International Relations (OIR) to develop global professionals by providing international educational exchange to university students. It offers various programs with the objective of providing international orientation to educational programs and to explore international cooperation in education and research in association and consultation with international universities and industry experts.



International Exposure Program



740+

PDEU students have been benefited

Travel Grant for attending Conference/Workshop/Symposium/International Internship



950+

PDEU students have been benefited

Semester Abroad Program



25+

PDEU students have been benefited

Study In India Program



100+

International student from abroad visited PDEU for Study in India Program.

AIESEC @ PDEU

350+

PDEU students have been benefited till Oct' 19 for Outbound Projects

400+

International students from abroad visited PDEU for Inbound Projects

Education today goes beyond the walls of classroom and it is imperative to take students to the frontiers of the creative world.

International Affiliation



Industrial Exposure for Students



INDUSTRY CONNECT

PDEU believes in active and continuous interaction with Industry to build stronger long term relationship. Industries are involved with PDEU through various activities like;

- Guest lectures
- Seminars,
- Workshops,
- Industry visits,
- Short term training programs

INDUSTRY EXPOSURE & EXPERIENCE

- Rural Internship (after 2nd semester / 1st year)
- Industry Orientation (after 4th semester / 2nd year)
- Corporate Internships (after 6th semester / 3rd year)

TOP RECRUITERS

Life at PDEU



Testimoniols

I ultimately chose PDPU among the other universities I had interest in because not only the curriculum here is good, but a lot of faculties are experts in their fields as well. I am also in love with the green campus and the vast number of clubs that bring about unity in diversity from the different schools in PDPU.



Djacilynne
Philippines, BA/BBA (Hons.)



My Sister has been in India for a while now and my Father has a lot of friends here so we had an idea of what India is like and we thought it would be good for me to get my education from here. I chose PDPU because it has a lot of connections with other universities abroad and I plan on studying abroad after finishing my B.Tech (Petroleum Engineering) here. I really like playing chess when I'm not studying.



Carlos Macamo
Mozambique,
B.Tech (Petroleum Engineering)



Being a part of PDPU is a golden opportunity for me, as PDPU has a higher education system and is one of the top ranking universities in India. While studying in PDPU you can be assured of a welcoming and friendly society with an excellent support system for international students. PDPU is the most amazing college I ever could have imagined and thank you for being so perfect.



Parwana Rahmani
Afghanistan, M.A.
(International Relations)



I chose India for my higher education due to diverseness in culture. It has many work opportunities in terms of internship and training to get practical exposure which we study in class. Pedagogy in Indian universities is different than Kenyan Universities and cost of living in India is quite low comparing to other countries. I have seen a very huge gap comparing my universities in Kenya and PDPU, where PDPU is mostly student-centric. As it is not affected by the politics or religious issues. We can avail resources at our disposal as long as we use them for a better future. I feel like home at PDPU.



Miriam Ngugi Muchunku
Kenya, B.Tech. (Mechanical Engineering)



I chose India because it has high quality affordable education. A good climate conditions for my health. India is a trusted and safe country to come for higher studies. In my country, the curriculums are quite different. PDPU is a good place for higher studies together with the location and environment and the culture of the university is really good.



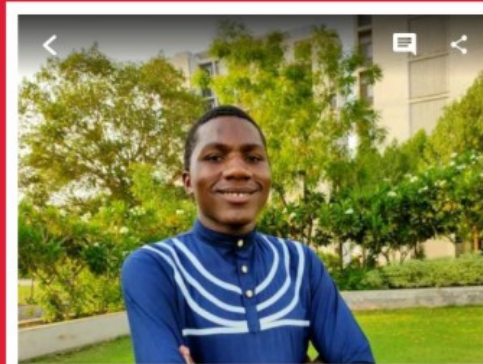
Diana Mkulasi
Tanzania, B.A/B.B.A. (Hons.)



'I AM HOPING TO TRAVEL BACK HOME IN THE FIRST WEEK OF JUNE'

MOZAMBIQUE Armando Chichava,
Fourth year student of B.Tech, PDPU

"I will be finishing my course and I am supposed to go back to my home country in the first week of June. I hope I will be able to do that. I haven't faced any difficulties in terms of getting all the essential items since the university is taking care of it. Staying at the hostel for extended periods of time can be challenging, but I am comfortable here. We have food, medical assistance, an ambulance on standby and are given four meals a day at the mess. The International Relations office at the university delivers the essentials to us."



Stranded but safe in campus, say foreign students in Gujarat

Last updated on - Apr 12, 2020, 10:35 IST

Shaloom Niyomuvunyi is a first year student at PDPU. Originally from Rwanda, Shaloom came to PDPU to study BA/BBA (Hons.). He has been staying at the hostel of university. He shares, "I feel safe here. I do miss my family a lot, but I know that I'm at the best place currently. The university is taking care of our needs and keeping us all comfortable." Shaloom adds that since travel is suspended he will not be able to visit his country. He stays in touch with friends and family through video calls. "The hostel warden visits all the rooms regularly and ensures that we are comfortable. The attendance of every night ensures that we are all in hostel. The University is under lockdown too and safety precautions are taken at the hostel. Regular checkup is done too by the University doctor for all international students," adds Shaloom.

PDEU STANDS WITH HUMANITY IN OUR FIGHT AGAINST COVID-19

OUR PATENTED CONTRIBUTIONS INCLUDE

- Design, Production and Evaluation of ICU Ventilators in association with other partners
- Research on "Electrospun spinning Polyvinylpyrrolidone (PVP) layered Nanofibre for composite surgical mask"
- Research on "Rational drug delivery systems with Pegylated Liposomes: Drug repurposing of broad spectrum Antivirals & Antimalarials"

