



PDEU

PANDIT DEENDAYAL ENERGY UNIVERSITY

Formerly Pandit Deendayal Petroleum University (PDPU)



TRAINING ENERGY SOLDIERS FOR THE NATION



RATED 5 STAR
CGPA of 4.3/5
'University' Category

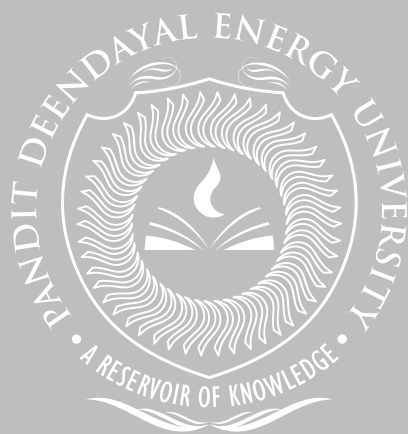


NATIONAL
INSTITUTIONAL
RANKING
FRAMEWORK

73RD UNIVERSITY
CATEGORY

66TH MANAGEMENT
CATEGORY

68TH ENGINEERING
CATEGORY



BUILDING
INTELLECTUAL
CAPITAL

NAAC
Accreditation
'A' Grade
(CGPA 3.39/4.0)

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TRANSFORMATION OF PDPU TO PDEU

“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 decade, 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.”

Shri Narendra Modi
Hon'ble Prime Minister of India

(8th Convocation Address of Pandit Deendayal Petroleum University)

The background of the entire page is a solid dark blue. Overlaid on this is a large, intricate, abstract graphic made of many thin, light blue lines. These lines are arranged in a complex, swirling pattern that resembles a stylized flower or a series of overlapping loops, creating a sense of movement and depth. The lines are most concentrated in the center and fade out towards the edges.

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.

FROM PRESIDENT'S DESK



Dr. Mukesh Ambani
Founder, President & Chairman BoG

LEARNING & 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 the 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"

FROM DIRECTOR GENERAL'S DESK



Dr. S. Sundar Manoharan
Director General

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 fields play a 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 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 a reservoir of knowledge for radical yet Sustainable societal transformation."



BOARD OF GOVERNORS

DR. MUKESH AMBANI

President,
Pandit Deendayal Energy University

MEMBERS

DR. R. A. MASHELKAR

FRS Bhatnagar Fellow &
President - Global Research Alliance,
National Chemical Laboratory, Pune

DR. S. SUNDAR MANOHARAN

Director General,
Pandit Deendayal Energy University

SHRI SUDHIR MEHTA

Chairman, Torrent Group, Ahmedabad

CHAIRMAN & MANAGING DIRECTOR,

Oil and Natural Gas Corporation (ONGC), New Delhi

SHRI S. J. HAIDER, IAS (EX OFFICIO)

Secretary to Government In-charge of
Technical Education, Government of Gujarat

MRS. MAMTA VERMA, IAS (EX OFFICIO)

The Secretary to Government Energy and
Petrochemicals Department,
Government of Gujarat

MRS. PALLAVI SHROFF

Shardul Amarchand Mangaldas & Co.
New Delhi

SHRI JALAJ DANI

Chairman – IIM - Trichy and
Co-promoter of Asian Paints

SHRI PARIMAL NATHWANI

Reliance Industries Ltd.

NOMINEE OF

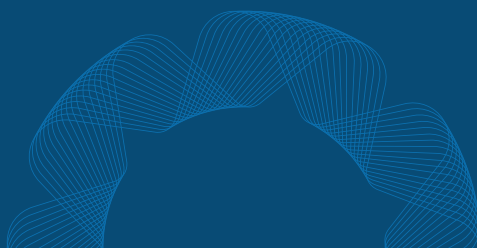
Gujarat Energy Research & Management Institute -
GERMI

DR. NIGAM DAVE

Director - School of Liberal Studies, PDEU

DR. SUNIL KHANNA

Director - School of Technology, PDEU





ACADEMIC COUNCIL

CHAIRMAN

DR. S. SUNDAR MANOHARAN

Director General,
Pandit Deendayal Energy University

MEMBERS

PROF. S. A. BARI

Ex Vice Chancellor, Central University of Gujarat

PROF. VIRENDRA PRAKASH SHARMA

Ex Professor & Head,
Petroleum Engineering Department,
Indian School of Mines (ISM), Dhanbad

DR. R. K. VIJ

Director - School of Petroleum Technology, PDEU

DR. PRAMOD PALIWAL

Dean - Faculty of Management, PDEU

DR. SURENDRA SINGH KACHHWAHA

Professor in Mechanical Engineering,
School of Technology, PDEU

PROF. INDIRA J. PARIKH

President ANTARDISHA &
Chairperson AURONYA College
Puthucherry

DR. JAYANT KELKAR

President, Process Technology
Reliance Industries
Mumbai

DR. NIGAM DAVE

Director - School of Liberal Studies, PDEU

DR. RAJESH PATEL

Dean - Faculty of Engineering & Technology, PDEU

DR. T. P. SINGH

Professor in Mathematics, PDEU

DR. INDRAJIT MUKHOPADHYAY


Professor in Department of Solar Energy,
School of Technology, PDEU

DR. ANIRBID SIRCAR

Dean - Research & Development

DR. RITU SHARMA

Dean - Faculty of Liberal Studies



LEADERS AT PDEU



Prof. Tarun Shah
Registrar

We at PDEU facilitate learning and mentoring of young and ignited minds and create next generation leaders and innovators. We focus on inclusive development of a student by way of educating on technological, intellectual and moral development to draw out the best from within.



Dr. Pramod Paliwal
*Director (IC),
School of Petroleum Management*



Dr. Sunil Khanna
*Director,
School of Technology*



Dr. R. K. Vij
*Director,
School of Petroleum Technology*



Dr. Nigam Dave
*Director,
School of Liberal Studies*



Prof. T. P. Singh
*Director,
Academic Affairs*



Prof. Anirbid Sircar
Dean - Research & Development



Prof. Vivek Pandya
Head - Internal Quality Assurance Cell



Dr. Rajesh Patel
Dean - Faculty of Engineering & Technology



Dr. Ritu Sharma
Dean - Faculty of Liberal Studies



Dr. Palak Sheth
Director - Planning & Development



Shri Abhinav Kapadia
Chief Finance Officer & Director (IIC)



Shri Ankur Pandya
Chief Human Resource Officer



Shri Deven Prajapati
Chief Campus Manager

ABOUT THE UNIVERSITY



PEOPLE

6900+

Total Students

4600+

Engineering Students

2000+

Liberal Studies Students/
Humanities & Social
Sciences Students

250+

Management Students

120+

Science Students

270+

International Students
from 40+ Countries

500+

Faculty & Staff

200+

Guest Faculty from
Industry

75%

Faculty with Ph.D. from
Premium Institutes

20%

Women Employees

250+

Research Scholars

50+

Professional Body
Association



Pandit Deendayal Energy University (PDEU), formerly known as Pandit Deendayal Petroleum University (PDPU), addresses the need for trained and specialized human resources and expands the opportunities for students and professionals to develop intellectual knowledge base with leadership skills to compete in the global arena. This objective is being addressed through a number of specialized and well-planned undergraduate and postgraduate energy education programs and intensive research initiatives.

Since its very inception, PDEU has been striving to develop itself into an internationally renowned & respected Institution imparting excellent education & training based upon the foundation of futuristic research & innovations. With the path-breaking innovations in both its curriculum and research, the university is rapidly gaining a legendary reputation in the industry across the world.

In addition to offering formal Undergraduate, Postgraduate & Doctoral Programs, the university actively encourages its faculty members and other academic staff to undertake research projects in order to strengthen the research profile of the university. Research and development is carried out in various engineering & technology sectors like Petroleum, Geothermal Energy, Solar PV, Battery & energy Storage, Biofuels & biotechnology, Automation Sector, Chemistry and Welding Technologies.

INFRASTRUCTURE

- | | | |
|--|--|--|
| <ul style="list-style-type: none">• 100 Acre Green Campus• Wi-Fi Enabled Campus (2.3 GBPS)• 24x7 Security - CCTV Surveillance• 61 Classrooms• 80 Laboratories• 4 Dining Halls- 2000 Sitting Capacity• 10 Food Courts | <ul style="list-style-type: none">• 3 Automated Library• 19586 Number of Titles• 58229 Number of Volumes• 242 National & International Journals• 24680 National & International e-Journals• 3404 CD's• 94550 E-Books | <ul style="list-style-type: none">• 1042 Furnished Hostel Rooms with 2680 Student Capacity• Sports Complex - 3 Gymnasiums• Transportation facility from Ahmedabad - Gandhinagar• Medical Store• Banking• Book Store |
|--|--|--|

THE JOURNEY

Institute of Petroleum Management, Gandhinagar started offering PG Diploma in Petroleum Management

2006

First batch of M.Tech. in Petroleum Engg. Program

Started offering B.Tech. in Electrical Engg., Mechanical Engg. and Civil Engg. Programs

Commencement of International Exposure Program

2010

Establishment of Solar Research and Development Centre

2012

Establishment of Siemens Centre of Excellence in Automotive Design

2014

2007

Started offering B.Tech in Petroleum Engg. Program

2009

First batch of M.Tech. in Solar and Nuclear Engg. program

School of Liberal Studies started offering B.A. (Hons.) and B.B.A. (Hons.) Programs

2011

Started offering B.Tech. in Chemical Engg. and Industrial Engg.

1 MW Solar Plant as Pilot Project on Campus

2013

Establishment of Centre of Excellence in Geothermal Energy

School of Liberal Studies started offering B.Com. (Hons.) Program

Started offering M.Tech. in Electrical Engg., Mechanical Engg. and Civil Engg. Programs

Establishment of Centre for Continuing Education



Started offering B.Tech. in ICT and CS Engineering Programs

School of Liberal Studies started offering B.Sc. (Hons.) in Physics, Chemistry and Maths

Establishment of Drilling, Cementing and Stimulation Research Centre

Started offering M.Tech. in Chemical Engg. Program

2016

Started offering M.Tech. in Manufacturing Engg. and Transportation Engg. Program

Started offering M.Tech. in Petroleum Technology (Exploration) Engg.

2019

University is renamed as Pandit Deendayal Energy University

Started offering B.Tech. in Petrochemical Engg. Program

2021

2015

Started offering M.Tech. in Environment Engg. Program

Establishment of Centre for Bio Fuels and Bio Energy Studies

Establishment of Innovation and Incubation Centre

2018

Started offering M.Tech. in Mechanical (Design) Engg. Program

Establishment of Media Lab

2020

Started offering B.Tech. in Electronics & Communication Engg. and Automobile Engg. Programs

M.Tech. in Data Science, Cyber Security and Energy & Environmental Management Programs



FACULTY OF ENGINEERING AND TECHNOLOGY



Faculty of Engineering & Technology (FoET) intends to focus on premiere technological education and research that anticipates and meets the needs of tomorrow's world. It is expected that engineering graduates from FoET will be equipped with the necessary tools and knowledge with the help of which they can tackle and make a difference in a broad arena of issues pertaining to concerns as vast as health, security, economic well-being or sustainability of the world.

The transformation of PDPU to PDEU have facilitated our university to contribute substantially into all spectrum of energy from conventional to non-conventional, renewable to non-renewable energy resources under its new name. Our thrust is now focused on teaching and researching sustainable energy solutions for nation-building and skill-based learning of emerging technologies. Efforts are being made to transform learning in the field of traditional hydrocarbon based-non-renewable energy and emerging technologies like hydrogen, gas hydrates, coal-bed methane, and even re-evaluating old producing reservoirs. In renewable energy, attempts are made to provide a sustainable solution for solar, nuclear, wave-tides, geothermal energy resources.

Our passionate faculties have loaded technical experience by engaging in practical research. Their merits can be ascertained by numerous international and national research papers in reputed peer-reviewed journals and conference proceedings. To ensure skill-based learning, FoET has laid emphasis on translational research to enhance innovation and product development. Student research grants are aimed to promote start-up & entrepreneurship skills.

Drilling, Cementing and Stimulation Laboratory was setup funded by the Energy & Petrochemical Department, Government of Gujarat. Also, the Government of Gujarat

has set up demonstrative research on harnessing Geothermal Energy, Solar energy farms and production-grade facilities for solar PV cells. Additionally, we have also initiated dedicated efforts on a large scale for Carbon dioxide capture, utilization, geosequestration for sustainable habitation. A 45 MW single crystalline silicon solar panel manufacturing process line is also currently underway. We have the well-established infrastructure and cutting edge-laboratory for large-scale energy storage for photovoltaic, wave, hydrogen and methane energy. Recently a unique Metal 3D printing facility on campus was devoted to the stakeholders in line with Atmanirbhar Bharat Initiative of Government of India.

Faculty of Engineering & technology also builds links with peer universities globally as well as within the country to enhance research and further enrich its educational programmes. We also have a praise worthy alumni who have distinguished themselves through their achievements and contributions to industry, academics, research, business, government and social domains. Thus, the institute continues to work closely with the alumni to not only enhance its activities through interactions in academic and research programmes to benefit our students but also to mobilise financial support and deliver even better opportunities and education facilities to our students.



COURSES OFFERED

B.Tech : 4 Years Degree

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

M.Tech : 2 Years Degree

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

B.Sc. (Hons.) : 4 Years Degree

- Physics
- Chemistry
- Mathematics

M.Sc. : 2 Years Degree

- Physics
- Chemistry
- Mathematics

Ph.D.

SCHOOL OF PETROLEUM MANAGEMENT

SPM

SCHOOL OF
PETROLEUM
MANAGEMENT



To cater to the managerial manpower requirements of the Energy and Infrastructure Sector, the Management School was first established as the Institute of Petroleum Management, Gandhinagar (IPMG) in 2006 by GERMI (Gujarat Energy Research and Management Institute), a trust and a society formed by GSPC (Gujarat State Petroleum Corporation), a Government of Gujarat undertaking. Subsequently in 2007, when Pandit Deendayal Energy University (PDEU) was established by GERMI, IPMG became the constituent of PDEU and changed its name to School of Petroleum Management (SPM).

SPM has been successfully conducting an MBA programme since 2006, it is a two-year full-time residential programme at Pandit Deendayal Energy University (PDEU) under School of Petroleum Management (SPM).

Each year is divided into three trimesters. The MBA programme includes six to eight weeks of compulsory summer training for the students.



DR. PRAMOD PALIWAL

Acting Director, 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. SPM firmly believes in regular sessions by management practitioners as an essential part of good management education and training. In addition, recurring management conclaves, seminars, conferences and occasional special lectures enrich the knowledge base of students at the School. Teaching pedagogy at SPM emphasizes, in addition to lectures, case studies, student presentations, student-research, seminars and other modern methods of education and training in management. In short, SPM attempts to develop highly trained managers to meet the present as well as the future requirements of the management profession in business and industry.

We at SPM promise engaging activities, invigorating environment, award winning curriculum and a robust infrastructure to facilitate learning; all leading to enhanced employability to make your MBA a superlative experience.

COURSES OFFERED AT SCHOOL OF PETROLEUM MANAGEMENT

MBA Programme in:

- (a) Energy and Infrastructure Management
- (b) General Management with specialization in:
 - 1. Financial Management
 - 2. Marketing Management
 - 3. Operations Management
 - 4. Human Resources Management

In addition, SPM offers Post Graduate Diploma in Petroleum Management-Executive (PGDPM-X)
Post Graduate Diploma in General Management-Executive (PGDGM-X)
Ph.D. and
Management Development Programmes

SCHOOL OF LIBERAL STUDIES

SLS

SCHOOL OF
LIBERAL
STUDIES



School of Liberal Studies (SLS) at PDEU offers Bachelor's, Master's and Doctoral degrees that equips a student to develop an array of intellectual skills, a variety of methodologies and ways of understanding our changing world, and a broad base of varied knowledge. In turn, such a Liberal Education establishes an invaluable foundation for more specialized study in one's major or in one of the professions, and for a life-long affinity for learning and continuing intellectual development.

The course imparts classical education in various fields like art, literature, languages, music, dramatics, philosophy, politics, history, law, mathematics, science and general studies. It emphasizes the need to seek knowledge for promoting intellectual growth, creative expression and rational thought.



DR. NIGAM DAVE

DIRECTOR, School of Liberal Studies

Welcome to the world of creativity and original thinking. By deciding to join the talented pool of 'generation next', you have already expressed your desire to do things 'differently'. The quest for knowledge and wisdom is always challenging. It requires aptitude and determination to reach the destination. School of Liberal Studies would be the catalyst to allow the undiscovered talents hidden in each individual to manifest themselves. Successful completion of an experiential, participative and innovative eleven years have further motivated us to enhance the qualitative content of the course.

The 'breadth' and 'depth' of courses offered at SLS will enable you to understand your own potential and equip you with the knowledge and skills the world requires today. The experiential teaching-learning pedagogy would expose you to the best practices prevalent in the world. I invite you to bring in a breath of fresh air of enthusiasm and creativity on the campus. Let us form a responsible and reliable team. India expects a lot from us all.



DR. RITU SHARMA

DEAN, Faculty of Liberal Studies

SLS prepares well-rounded graduates who are academically exceptional, practically rooted and socially responsible. Beyond that, SLS develops research and reasoning skills that equip graduates to be significant citizens with high leadership potential by allowing students to liberate their minds to their fullest potential. We are aware that some of the most stimulating and innovative human knowledge progress demands holistic learning. SLS program outcome aligns to ensure graduate attributes demonstrate the capacity to think critically, communicate effectively, and answer multi-layered challenges. SLS firmly believes critical thinking through a pragmatic approach will drive us forward while highlighting the need to redesign education for Industry 4.0 to build New India.

COURSES OFFERED AT SCHOOL OF LIBERAL STUDIES

BA/BBA(Hons.) : 4 Years Degree

- Business Administration
- Economics
- Psychology
- Marketing
- Human Resource Management
- Finance
- Environmental Studies
- Mass Communication
- English Literature
- Public Administration
- International Relations

B.Com. (Hons.) : 4 Years Degree

- Finance & Accounts
- Business & Insurance
- Marketing & Management
- Entrepreneurship & International Trade

M.A : 2 Years Degree

- Public Administration
- Political Science - International relations
- English
- Psychology
- Media & Communications
- Economics

M.Sc. (Finance)

Ph.D.

OFFICE OF RESEARCH AND SPONSORED PROGRAMS (ORSP)

The Office of Research and Sponsored Programs (ORSP) acts as a platform at the university for the Research & Development activities. It coordinated the specific procedures or techniques used to identify, select, process and analyze information about a topic or project. This office supports the researchers to critically evaluate a study's overall validity and reliability in the terms of investigation, Research and Development. It encourages and promotes the students of PDEU and guides them in the research methodology and supports them with internally funded grants. It coordinates and harmonizes externally funded grants and suggests the research cum administrative information on grant compliance for the effective execution of research by faculties.

ROLE:

It also acts as a nodal point to assist faculties to obtain and administer externally funded sponsored projects, research grants and contracts. It also administers Student Research Programs and supports students with the grant funded by the university. It provides assistance in the preparation and submission of proposals, management of grants and contracts for effective promulgation of sponsoring agency/ National/International terms of agreement, MoUs and Laws.

On behalf of the University, ORSP formulates policies and procedures in relation to research and sponsored programs to be used as source of information and the procedures to be meticulously followed.





FUNCTIONAL AREA (MACRO LEVEL) :

- Research Coordination & Collaboration
- Networking, Interfacing & Liaison
- Student Platform (Primarily Undergraduate)
- Incubation
- Maintaining Research Records by faculties and Students.
- Strategic Action plan to conduct research.
- Providing administrative/policy support to the existing Centre of Excellences and development/approval of new Centre of Excellences.

FUNCTIONAL AREA (MICRO LEVEL) :

- Research Management Support
- Finance and Accounting Guidance & Support
- Administrative, Technical & Legal Support
- Patent Filing Support
- International travel support for R&D activities (non-financial)
- Devising methodology to obtain qualitative research tools.

PROJECTS & PATENTS

154 IPR Filed

67 Completed Projects

46 Ongoing Govt. and Private Sponsored Projects

220 University Sponsored Student Research Projects

Scopus Indexed paper publication in 2021

202 Patents published and granted in last 5 years

Rs. 252 Crores of Investment in Centres of Excellence

PUBLICATIONS (2017-21)

1370 Publications

1.17 Field Weighted Citation Impact

53 is the present H-Index of Scopus papers

17.6% Top 10% most cited worldwide, India - 9.1%

19.92 Average citation per paper for Top 25%

47% Publications in Q1 Journals

25.1% Publications by PDEU Researchers in last 3 years are co-published with researchers from abroad

CENTRES OF EXCELLENCE (CoE) AT PDEU



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 9600m² 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.

SIEMENS AUTOMOTIVE CENTRE OF EXCELLENCE

The Siemens CoE in Automotive, established in 2014, operates with the primary focus of creating a robust technical education ecosystem 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 opportunities for promising and prospective innovations.

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





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 Rs11 crores is invested in this centre.



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 500m² 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.



1MW SOLAR POWER PLANT INTEGRATED TO THE GRID

The ground-mounted 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 facilities for collection and analysis of solar and meteorological data that is crucial for research and developmental activities.



DRILLING, CEMENTING & STIMULATION (DCS) RESEARCH CENTRE

DCS Research Center is established on the premise of PDEU under the aegis of Government of Gujarat and Gujarat State Petroleum Corporation Ltd. (GSPC) whose worth is around Rs. 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 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 a roadmap for geothermal energy utilization in India.





iFUSION SF1 METAL 3D PRINTER

The Metal 3D printer is based on Powder Based Fusion (PBF) technology. It produces parts with high structural integrity along with the required surface finish and mechanical properties. This is a game-changer that meets entry and mid-level component manufacturer's requirements.

Advanced Manufacturing Technology Centre aims to create a conducive ecosystem for design, development and deployment, and to overcome technical and economic barriers and facilitate Global AM leaders to provide skilled human resources for their operations with supporting ancillaries in India, facilitating the development of the domestic market and enhancement of global market share in line with the National Strategy on Additive Manufacturing (AM).



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 processes 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 an 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.

INNOVATION & INCUBATION CENTRE (IIC)

PDEU Innovation & Incubation Centre (PDEU IIC) is an incubator established by Pandit Deendayal Energy University (PDEU). PDEU IIC is registered u/s 8 of Companies Act, 2013. It is recognized as Nodal Institute by Govt. of Gujarat and registered as Startup India Incubator under DIPP (Department of Industrial Policy and Promotion, Govt. of India). Also, PDEU IIC is supported by Student Start-up and Innovation Policy (SSIP) by Education Dept. of Govt. of Gujarat, Startup Innovation Policy by Industries Commissionerate (IC) and Department of Science and Technology (DST) by Government of Gujarat.

PDEU IIC is born with the aim of converting the brimming potential of budding Engineers, Management Students and Technocrats into innovation-driven business ventures leading to technical renaissance. We are incubating 50+ Start-ups from different domains such as waste management, energy and environment, IT & IOT, Fintech, Cleantech, etc.

Atal Ranking of Institutions on Innovation Achievements (ARIIA) 2021 has ranked PDEU 5th in India in University & Deemed University Category.

PDEU has been selected as best performing SSIP Grantee University STUDENT INNOVATION, START-UPS AND ECOSYSTEM – 2019 organised by Education Dept., GoG, on 6th-7th June, 2019.

Awarded Incubation centre of the year for prominent IP culture in year 2017, 2018 & 2019.



Under scale up stage in Grand Challenge held at Vibrant Gujarat Startup and Technology Summit 2018, Torch-it and Recycler stood 2nd and 4th respectively.

Under the Ideation stage in the Grand challenge held at Vibrant Gujarat Startup and Technology Summit 2018, Smart Scoot lock won INR 10,000.

8 of our startups were featured in the Top 42 startup list of Coffee Table Book released by the Government of Gujarat.



RECOGNIZED BY



सत्यमेव जयते

NODAL INSTITUTE
Govt. of Gujarat

Recognized as Nodal Institute

#startupindia

Recognized as Startup India incubator

SUPPORTED BY



सत्यमेव जयते

Industries
Commissionerate,
Govt. of Gujarat

SSIP



सत्यमेव जयते

Department of
Science & Technology,
Govt. of India

OFFICE OF INTERNATIONAL RELATIONS (OIR)

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

Study in India
Program

100+
International
Students from
abroad visited
PDEU for
Study in India
Program

Semester
Abroad
Program

25+
PDEU Students
have been
Benefited



ACTIVITIES UNDER OIR

- To provide international exposure to the students.
- To develop a Study Abroad Program.
- To develop joint research projects with universities abroad.
- To create an international learning environment by inviting faculties from other international universities.
- To facilitate International Admissions.
- Infrastructure sharing with other international universities.
- To invite international students to take up long term and short term courses offered at the university.
- Create a forum for knowledge sharing with other universities.
- To promote Study in India initiatives.

INTERNATIONAL EXPOSURE PROGRAM (IEP)

The university has been facilitating a 3-6 weeks exposure program titled as International Exposure Program (IEP) since 2010 with partner International Universities during summer vacations every year. The International exposure program is a unique initiative of PDEU. It is designed to give students exposure in the domains of academics, technology and culture with an intent to create and nurture a collaborative ecosystem with some of the finest universities in the world.

STUDY IN INDIA PROGRAM (SIP)

The principal objective of this interdisciplinary course is to provide a basic understanding of the progress and development of the Indian Society: its cultural heritage, political, social and economic scenario and its growing importance in world affairs. The uniqueness of the program lies in its interdisciplinary nature aimed at demonstrating India's multifaceted religious and Cultural ethnicity. The program also focuses on socio-political issues and evolution of India as a global superpower.

PDEU believes that this kind of program is the need of the hour keeping in mind the vital and sacrosanct role India is presently playing on the world map, and also because in this increasingly globalizing world, the future belongs to a country having a multicultural outlook.

OFFICE OF STUDENT ACTIVITIES, INVOLVEMENT AND LEADERSHIP AFFAIRS (OSAIL)

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

The Office supports the student organizations that abound at PDEU. Opportunities are provided for student participation and leadership experiences in a variety of officially recognized clubs and organizations. Currently it mentors and funds around 34+ student clubs which conducts around 200 events throughout the academic year. The staff is committed to delivering quality advising, resource materials, leadership development opportunities, and administrative support services to impact students' growth and development and enhance the success of each student organization. It ensures that students with Leadership qualities get a platform to experiment with their ideas and enhance their skills. These leaders keep the campus buzzing with their innovative events and also ensure that talented students get a chance to showcase their talents in those events. There are sports/recreation clubs, special interest groups, professional societies, and social service activities, cultural & technical events.

Since the establishment of Office of Student Activities, Involvement and Leadership it has played a very significant role at Pandit Deendayal Energy University, spearheading all the extra as well as co curricular activities. Each academic year, OSAIL Constitutes Student led Committees, consisting of Technical, Cultural and Sports committees, that works in full swing to enhance, nurture and foster student interests in an array of areas within and beyond the academics. Clubs are an integral part of committees which help in enhancing the passion of students in diversified fields.



Annual Technical Fest

'TESSERACT' is the Annual Science and Technical Fest of Pandit Deendayal Energy University which talks about the quest for knowledge. Literally, meaning the four dimensional analogy of a cube, Tesseract links the depth and complexities of science with an elementary cube. It goes hand in hand with the aim and vision of the university, to make science simple.



Annual Sports Fest

'PETROCUP' it boasts itself as a messenger to spread an aura of sportsmanship, intensity, and competition with a message to "LEARN, PLAY AND WIN.



Annual Cultural Fest

'FLARE' is simply not just a cultural extravaganza to PDEU but a series of days that students takes back with them for the rest of their life, with various events in genre of Dance, Music, Art, Literature, Theatre, Culture, Politics, Fashion or Gaming.



34+
Student
Clubs

3
Student
Committees

200+
Events

50+
Student
Achievements

4000+
Students
Engaged

7+
Festivals

4+
Initiatives

35+
Expert
Visits

15+
Flagship
Events

18+
Sports

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.

MAJOR INDUSTRY ASSOCIATES

INDUSTRY EXPOSURE & EXPERIENCE

Industry exposure allows a student to apply the technical knowledge to real-life situations and problems.

The industrial training is an experience where a student closely works with other professionals and follows the instruction to get insights about the operations.

PDEU has introduced Rural Internship for first year students to develop greater understanding of rural India and participate in its development.

Students after first year of study go for two month summer rural internship to strengthen understanding of concepts related to rural development with specific reference to Indian context.

Students after second year of study go for two month summer Industry Orientation to get exposure to various technologies deployed in the Industry of large and small scale and relevant to their field of Engineering.

Students after third year of study go for two month of Research Internship in Industry or Research Organization to inculcate research and technology development that brings sustainability and efficiency enhancement of operations.



CONVOCATIONS



PDEU's Student Graduation Data

YEAR	2008	2009	2010	2011	2012	2013	2014
No. of Passouts	65	65	88	330	326	335	542





2015	2016	2017	2018	2019	2020	2021	TOTAL
833	618	839	1040	1104	2615	1530	10330





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For Management

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