

FINAL PLACEMENTS
2013-14



PDPU
PANDIT DEENDAYAL PETROLEUM UNIVERSITY

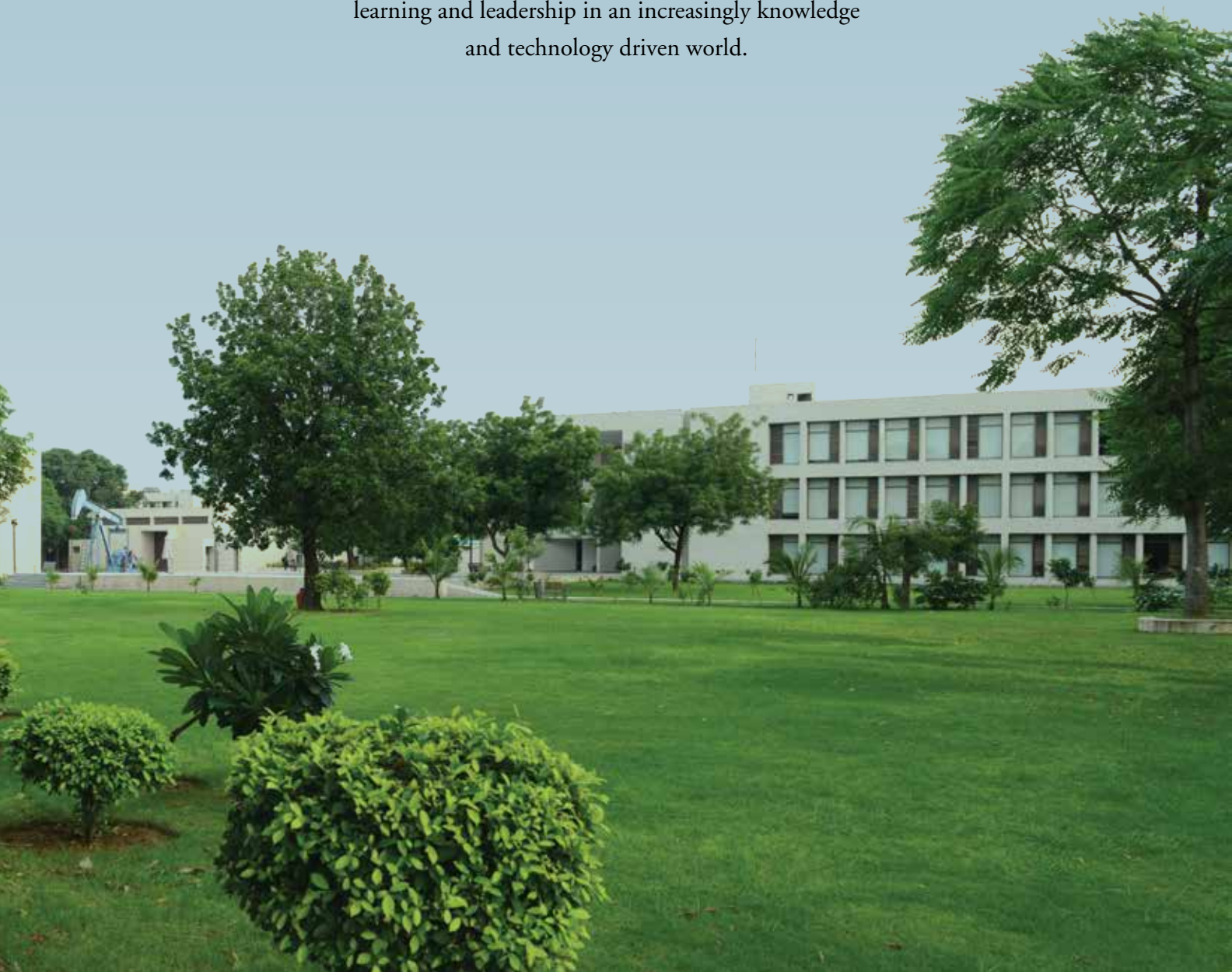
SOT
SCHOOL OF
TECHNOLOGY

VISION

To be an internationally renowned and respected Institution imparting excellent education and training based upon the foundation of futuristic research and innovations.

MISSION

Inspiring Students to prepare them for life-long learning and leadership in an increasingly knowledge and technology driven world.



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Dr. Nigam Dave
Dean, School of Liberal Studies,
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Shri P Elango
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School of Liberal Studies, PDPU

Dr. Hemant Trivedi
Director, School of Petroleum
Management, PDPU

Dr. Tanushree Banerjee
School of Petroleum Management, PDPU



President's Message

Dr. Mukesh Ambani

President

Pandit Deendayal Petroleum University

With Pandit Deendayal Petroleum University, we envisioned the creation of a world-class university. To be one of the front-runners in imparting education in the fields of energy & infrastructure, humanities, engineering, management, and liberal arts. And I am enthused to announce that Pandit Deendayal Petroleum University (PDPU) is now one of the leading universities of India aspiring for global standards of excellence. In a short span of seven years, PDPU has reached a tipping point and is set to pace the major transformations taking place in the world economy. PDPU is now old enough to create young professionals who impart significant contributions to the economic and the social landscape of India.

Today the corporate world seeks a generation of young people who are not only academically sound, but are also capable of thinking innovatively. I feel proud to see the holistic education system of PDPU has successfully brought the best out of the students. I'd like to reiterate my whole-hearted support for PDPU and wish them all the very best for their future endeavors and accomplishments.

All the Best!



Chairman's Message

Shri D. J. Pandian, IAS

Principal Secretary, Energy & Petrochemicals Department &
Chairman, Standing Committee, Pandit Deendayal Petroleum University

I feel a great sense of privilege in presenting the class of 2014 to you. We at the school take pride in creating a set of engineering graduates who can dynamically adapt to an ever changing environment of the oil & gas Sector. We are confident that the exposure imparted to them on campus will be functionally relevant in the corporate world. As professionals who can lend value, these young graduates have also been indoctrinated with humility and integrity as priceless personality attributes.

The four year journey as I see it has been a truly transformational one. It has been engaging, rigorous, collaborative and has presented a global frame of reference for the students to internalize and apply to the evolving world of technology. Fine tuning these theories and cases specifically to the petroleum sector has been a niche and intense experience. These are the learnings which our young graduates extend to you.

I once again welcome you to our campus and hope you will find a set of students to meet your expectations.



Director General's Message

Prof. P K Banik

Director General

Pandit Deendayal Petroleum University

Greetings from Gandhinagar, the capital city of the state of Gujarat and a hearty welcome to our university, Pandit Deendayal Petroleum University (PDPU)!

PDPU aspires to provide globally relevant holistic education and has on its anvil cutting edge research, development and innovation both in fundamental and professional streams of knowledge focused in the areas of Energy, General engineering, Management and Humanities. We hope to be a world class university and firmly believe our graduates will make substantial contributions in time to come in their respective areas of specialisation.

PDPU which was established in 2007, is growing remarkably well in a vibrant campus currently spread over an area of approximately 100 acres on a lush green river bank with a beautiful rural setting. The campus has a state of the art feel with modern academic and residential buildings, internet and Wi-Fi, good laboratories and computational facilities, excellent cafeteria, wellness center sports facilities, etc. The campus is well located and can be reached conveniently.

At this university, you expect to achieve professional education of world-class standard, excellent and encouraging faculty support, and a very inspiring learning ambience.

SOT would like to introduce you to the class of 2010-14. We believe that you will be impressed by their enthusiasm and interest in defined disciplines of engineering. We are sure that the corporate sector will benefit immensely by utilizing the rich knowledge and relevant exposure acquired by our graduates, who are not just effective employees of today; they are strategic and dynamic professionals of the future.

I, on behalf of SOT welcome you to participate in our Campus Recruitment Program.



Director's Message

Dr. H. B. Raghavendra

Director

School of Technology, PDPU

School of Technology (SOT) is the youngest School of PDPU added to the PDPU family in 2010. The phenomenal growth of SOT in three years is an inspiring journey in itself. Today, the school offers 5 undergraduate, 4 PG courses & Ph.D programs in various Engineering disciplines.

The progress of SOT is marked by setting up of state of the art laboratories with the help of several industries and public sector units. GSECL, GETCO and GACL are associated as knowledge partners of SOT and sharing proprietary technologies with the School. The Academic Team is also gearing up to offer Consultancy services through its world class laboratories and quality faculty members.

SOT takes pride in having professional associations of students and faculty to extend value added activities viz., Workshops, conferences, expert lectures and many other events. Green brigade, energy audit group, automotive club and several other groups work for the betterment of the society. The number of events taking place at SOT should be a pointer to the capabilities of the school and indicate the progressive approach of the university.

I am proud to say that the Students of SOT, who are academically enabled with hands on experience, exposure to live projects and sensitized to requirements of the society are professionally ready for Infrastructure, Oil and Gas and Manufacturing Sector Industries and Companies. They would be not only employable but also deployable for live Project and Site conditions.

About the University

Pandit Deendayal Petroleum University, Gandhinagar, promoted by Gujarat State Petroleum Corporation Limited (GSPC) is a domain specific university in the field of education and research with a special focus on the oil and gas sector. GSPC is a diversified company having a significant presence in the entire value chain of the hydrocarbon sector.

This University addresses the need for trained and specialized Human Resource for Oil & Gas Industry, as well as for mainstream engineering and management domains in business and industry. It intends to expand the opportunities for students and professionals to develop and nurture their intellect and core knowledge with desired leadership skills to compete in the global arena. This objective is being addressed through a number of specialized and well-planned undergraduate, post-graduate and doctorate programmes set in a research enabling environment.



Recognition

UGC

This University has been established by an Act of the Gujarat Legislature, on 4th April, 2007. The University is recognized by UGC vide F.No. 9-17/2008 (CPP-L) dated 9th November, 2009. Moreover, the programme is well recognized by the industry in terms of relevance, quality and earnestness to cater to the future.

SIRO

Government of India, Ministry of Science and Technology, Department of Scientific and Industrial Research has accord recognition to Pandit Deendayal Petroleum University (PDPU), Gandhinagar as Scientific and Industrial Research Organization (SIRO). On receiving this recognition PDPU is entitled to all such administrative support from the Ministry of Science and Technology (DSIR) as may be required on all issues to promote or encourage scientific research activities. Also, the University will be entitled to avail the custom/excise duty exemption on the import of equipments, instruments, spares thereof, consumables etc.

DSIR, a Government of India body that undertakes promotion of research and transfer of technology to India, carries out thorough evaluation of the R&D unit and ensures compliance with all the Government of India regulations before awarding renewals. The recognition and duty waiver is awarded every three years.



SCHOOL OF TECHNOLOGY

School of Technology intends to focus on technological education, research and service that anticipates, and meets the need of tomorrow's world. It is expected that engineering graduates from the school will care about issues that technology can make a difference, whether these issues are related to health, security, economic well-being or sustainability of world and prevailing value systems





Dean's Message

Dr. Tajinder Pal Singh
Dean, Students' Affairs

Pandit Deendayal Petroleum University

Pandit Deendayal Petroleum University addresses the need for trained and specialized Human Resources for Oil & Gas industry and other Engineering branches worldwide. It intends to expand the opportunities for students and professionals to develop intellectual knowledge base and leadership skills to compete in the global arena. This objective is being addressed through a number of specialized and well-planned undergraduate and post graduate energy and technology education programmes and intensive research initiatives.

The objective of the Placement Office is to facilitate the match between the skills, knowledge, and talents of its students with that of the human resource requirements of industry for shaping the professional career of the students.

PDPU strongly emphasizes on the fact that the engineering graduate should have sound theoretical as well as practical knowledge of his discipline as well as basic information about other relevant disciplines. The course curriculum is planned accordingly to achieve this goal.

Industry, is one of the best benchmarks for testing the capability of engineering students to apply their knowledge gained from their alma mater. PDPU is confident that after taking feedback from industries, it will be able to further mould its curricula in such a manner that it is best suitable for both industries as well as academia.

The students should first deserve then desire, keeping this in mind, we wish each student success in getting a suitable placement. We cordially invite and welcome various industries to offer a suitable placement to our young enthusiastic and dedicated students.



Civic and Social Service Internship

As per the directive of the Ministry of Human Resource Development, Government of India, a Technical Programme should comprise of at least 20% courses on Humanities and Management. For better execution of policies during one's professional career, a technocrat is required to come to terms with the realities of life. In India, rural population comprises of nearly 70% of the country's total population. In a developing nation like India, cities are getting saturated rapidly in many ways and the onus on administrative machinery is to focus on rural areas for development. In this regard, it has become mandatory to know and understand rural life and its demography. It is in this reference, School of Technology, under the aegis of Pandit Deendayal Petroleum University, has introduced Civic and Social Service Internship (CSSI) as a course in B.Tech programme after completion of first year.

Objectives:

- To strengthen understanding on concepts of rural development with specific reference to the Indian context.
- To provide exposure to grassroot realities, in the rural setting with a focus on participation in interventions by NGOs.
- To strengthen insights and develop skills on participatory methodologies and tools used in rural development.
- To understand and appreciate broader contexts of other stakeholders, like government agencies, donors and local self governance institutions, while participating in existing field projects.
- To facilitate cross-cultural learning on development issues as well as other areas of inter-personal growth and learning.



Industrial Orientation

Industrial Orientation facilitates understanding about application of basic sciences and engineering acquired during first two years of curriculum and developing their understanding about industry operations. This initiative further facilitates academic and research based learning and eases the way subjects are taught during 3rd and 4th year of B.Tech Programme.

It is in this reference, 2nd year B.Tech students are scheduled to visit various industries across the country with a view to get familiar with Industry Operations.

Objectives:

- To expose students to various operations of the industry and enhance their understanding about application of science and engineering principles studied in first two years of B.Tech programme.
- To develop student's understanding about industry operations and facilitate their academic and research learning for the 3rd and 4th year B.Tech programme.
- To develop student's understanding of the industry value chain.



International Exposure Program

To develop global professionals by providing international educational exchange to the university students and to create visibility of the university in the global educational scenario by collaborating with other reputed institutes and student exchange programs.

Objectives:

- To provide international exposure to the students.
- To develop Study abroad program.
- To develop joint research project with Universities abroad.
- To create an international learning environment by inviting faculties from other globally recognised universities.
- To invite international students to take up long term and short term courses offered at the university.
- To share our infrastructure with other international universities.
- To create a forum for knowledge sharing with other universities.





MECHANICAL

Engineering

Department of Mechanical Engineering (DME) at PDPU has flourished to a great extent due to their experienced faculties from diversified fields, optimal faculty to student ratio and dedicated students. DME focuses on comprehensive course curriculum with intense practical exposure to the students which will enable them to take up challenging roles in their professional careers.



Dr. Surendra Singh Kachhwaha

Head - Department of Mechanical Engineering

Mechanical Engineering Education is a very strategic and specialised segment where the engineers are being trained to meet the innovative demands of futuristic technologies. In the recent past, Mechanical Engineering Department of PDPU has established itself as one of the premier brands in technical education in India and has enhanced its reputation by introducing M. Tech. and PhD programs. The present admission process ensures that bright students are selected and are subsequently put in a liberal academic and intellectually challenging environment to learn the most demanding concepts of Mechanical Engineering. In order to nurture a sense of intellectual confidence, Mechanical Engineering Department has endeavoured to promote a new brand of engineering culture through its unique curriculum.

Our Strategic Initiatives are to set up new and innovative models of engineering education to promote creativity and entrepreneurship. We are collaborating with industry and academic institutes to make engineers more skilled and more employable. Our initiatives are aimed to transform education and build careers of our students with whole hearted acceptance from industries across the Globe. The current curriculum gives equal emphasis on fundamental studies, practical exposure and industrial orientation.

The present undergraduate and post graduate programs are intended to provide excellent mathematical and computing skills, research experience, team work and problem solving skills. Along with engineering education, DME focuses on awareness among the students on social and environmental issues in order to connect technology and people, commitment to ethical practices, and appetite for lifelong-learning. The focus on “learning by doing” has been developed to motivate students for innovation and entrepreneurship. These, we firmly believe, are the important skills for tomorrow’s engineers and leaders in academia, industry and society.

Course Curriculum

B.Tech - Mechanical Engineering

Semester I

- Mathematics I
- Applied Mechanics
- Chemistry
- Computer Programming
- Communication Skills
- Engineering Graphics
- Environmental Science

Semester II

- Mathematics II
- Physics
- Elements of Civil Engineering
- Elements of Electrical Engineering
- Elements of Mechanical Engineering
- Engineering Materials
- Workshop Practice

Semester III

- Mathematics III
- Thermodynamics
- Fluid Mechanics
- Strength of Materials
- Manufacturing Process I
- Electrical Technology

Semester IV

- Numerical Methods
- Kinematics of Machines
- Design of Machine Elements
- Engineering Metallurgy
- Fluid Machinery
- Mechanical Measurements & Metrology

Semester V

- Manufacturing Process II
- Dynamics of Machines
- Heat and Mass Transfer
- Power Plant Engineering
- Control Systems
- Production & Operations Management

Semester VI

- Design of Mechanical Systems
- Production Technology
- Refrigeration and Air Conditioning
- Non-Conventional Energy Sources
- Work Design and Measurement
- Organizational Psychology

Semester VII

- Computer Aided Design
- Internal Combustion Engines
- Optimization Techniques
- Vibration Engineering Design
- Science & Technology of Welding
- Industrial Economics
- Seminar

Semester VIII

- Major project
- Robotics Engineering
- Thermal Engineering
- Computer Aided Manufacturing
- Finite Element Methods
- Management Concepts & Practices



Student Activities

Clubs/Forums & Chapters

SAEINDIA PDPU

Collegiate Club

Society of Automotive Engineers student branch at PDPU fosters automobile enthusiasts of mechanical engineering department in design and development field. The chapter was formed under the guidance of Dr. Rajesh Patel. The chapter aims at providing a platform to all its members to the latest developments of the automobile industry. Since its inception it has nurtured its members through its various activities like Automobile quiz, Paper and poster presentation and workshops. SAE chapter at PDPU is one of the most active clubs in the campus known for its value addition to its members. Some of its activities in 2012-13 are:

Automobile Quiz: The quiz was based on Automobiles of all the three spaces which are road, water & air. The aim of the quiz firstly was to throw light on the scope of SAE & interest students about it. Secondly, serve as an informal path to knowledge of the vehicular world.

Engine Design Workshop: Automobile and engine Design workshop was a short term professional course on Automotive and Engine Design Combining industry knowledge and innovating solutions. The workshop was conducted by Metawing. The students learned the basics concepts and gain the practical experience.

Paper and poster presentation: Students were invited to present their original contribution in the area of automobile engineering. They could be research activity or case study. The objective of paper presentation was to develop quest for research among the students. The spirit for searching information will definitely improve the reading habits of the students and provide them in depth knowledge about current automobile technologies.

MECHNERZO

The MECHNERZO, an official forum for students and faculties of Mechanical & Industrial Engineering department was established to organize and launch various technical programs/ activities to sharpen their professional and academics skills, and recognize personal lives, while engaging in activities with a societal relevance. All the Club/Chapter and other co-curricular activities are organized by Department of Mechanical & Industrial Engineering under MECHNERZO

GLINT

The Renewable Energy Club

Glint is a Renewable Energy Club of PDPU and was established in 2011 by 5 students of mechanical engineering department under the guidance of Dr. Ajit Kumar N Shukla as the faculty advisor. The organization is dedicated to the promotion of education and application of clean renewable energy technologies and energy conservation. It aims to provide opportunities for hands on learning and community involvement to further our academic experience. It provides a common ground to all those concerned with nature and utilization of energy as a renewable non-polluting resource. The Activities of the club:

Solar Energy Exhibition: A solar energy exhibition was organized by Glint in Flare, the techno-cultural festival of PDPU. The exhibition demonstrated the working of various solar energy equipment like parabolic solar reflectors, SK-14 solar cooker, solar street lights, and parabolic concentrator of 1.8m aperture.

The Green Campus Challenge (TGCC): The Club took an initiative to participate in The Green Campus Challenge (TGCC) which was organized by IIT Bombay. The Green Campus Challenge had been designed with a vision of making campuses across India more sustainable and green, and to promote the idea and the necessity of the same among the youth of our country. The team did more than 80 tasks and all the activities created awareness as well as applied practical solution to the existing problems on these issues. GLINT team consisting of 21 members bagged the 3rd position out of 350 teams registered.

Expert Lecture: Glint also organized an expert lecture by Dr. Indrajit Mukhopadhyay on "Harnessing Solar Power using PVCs and CSPs". The main emphasis of lecture was role of mechanical engineers in Harnessing Solar Power using PVCs and CSPs.

Field Visit to Muni Seva Ashram, Goraj near Vadodara on 6th October, 2012. The trip was followed by a case study on the renewable energy resources present at the Ashram.

BAJA

Society of Automotive Engineers (SAEINDIA) organizes a global event called BAJA for under-grad engineering students. Each team's goal is to design and build a prototype of a rugged single seat, off-road recreational four-wheeled All Terrain Vehicle (ATV) intended for sale to non-professionals. The vehicle must be safe; easily transported and maintained; and fun to drive. BAJA comprises of 3 rounds namely Virtual BAJA, Mid-Inspections & Main BAJA. In Virtual BAJA, a participating team has to present the vehicle design in CAD, followed by FEA analysis of Components, DFMEA, DVP, suspension steering/Brakes/Engine/Transmission parameters, safety, ergonomics, innovations, project plans, etc. Across the country only 120 teams qualified for the next level of the competition on basis of their design evaluation by panel of automotive industrial experts.

Team CZAR of PDPU has participated for the first time in BAJA 2013 and cleared Virtual BAJA event out of 280 teams. For the next level of competition i.e. Main BAJA, the team members were divided into various departments. After working rigorously for around five months, they had successfully participated in the final event "Main BAJA". In Main BAJA, extensive series of tests like engine inspection, brake, maneuverability, acceleration, hill climb test, endurance tests had been conducted on each vehicle. Students got unique practical exposure, detailed automobile knowledge, and learned about real life problem solving environment, team management, planning & execution of operations under limited resources, support & time.



Department Activities

- Workshop on “Awareness on Biodiesel Production Techniques”
- Five day Workshop on “Computer Aided Design and Development using CREO 2”
- One day workshop “ Engineering Equation Solver”
- Workshop on “Automobile and Engine Design” by Metawing Tech., organized by SAEINDIA PDPU Collegiate Club
- Paper and Poster presentation on “Advances in Automobile Engineering” by SAEINDIA PDPU Collegiate Club
- Expert lecture on “Motivating Engineering Students to achieve program outcomes for enhanced employability” under ISTE student Chapter for B.Tech. First Year Students of School of Technology, at Pandit Deendayal Petroleum University
- Workshop on “Students Outcome- Bases Engineering Education for Enhanced Employability” under ISTE Institute Chapter for Faculty members of at Pandit Deendayal Petroleum University
- Faculty training on Modeling and Simulation software Siemens NX-8 (Unigraphics) for Five Days
- Workshop on “Soft skills for Placement” by Mr. Sachin Bordavekar, and Mr. Sandeep Deepankar AGM, HR, L&T, Vadodara.
- Expert talk on “Importance of Design and Analysis to Solve Industry Problems” by Prof. S. B. Soni, Emeritus Professor, Mechanical Engineering Department, L. D. College of Engineering, Ahmedabad
- “Auto Quiz” Organized by SAEINDIA PDPU Collegiate Club
- Inauguration of “Indian Society for Technical Education (ISTE) Institute and Student Chapters” at Pandit Deendayal Petroleum University
- Expert talk on “Harnessing Solar Power using PVCs and CSPs” by Dr. Indrajit Mukhopadhyay, School of Solar Engineering, Pandit Deendayal Petroleum University
- Expert talk on “Vehicle Dynamics” by Prof. V Kumar, Vice Chairman and Head, Student Activity, SAEIWS
- Inauguration of “Society of Automotive Engineers (SAE)” Collegiate Club at Pandit Deendayal Petroleum University
- Inauguration of “MECHINERZO” the official forum for Mechanical and Industrial Engineers of School of Technology, Pandit Deendayal Petroleum University



Industry Visits

Name of the Company	Visit Date
KHS Machinery Pvt. Ltd., Ahmedabad	16th March, 2012
Akvalo Instruments Pvt. Ltd., Gandhinagar	26th April, 2012
Bosch Rexroth (India) Ltd., Ahmedabad	27th April, 2012
Bhagwati Spherocast Pvt. Ltd., Ahmedabad	28th April, 2012
Gandhinagar Thermal Power Station, Gandhinagar	18th August, 2012
Sardar Sarovar Narmada Nigam Limited, Navagam	25th August, 2012
Sahjanand Laser Technology Limited, Gandhinagar	27th September, 2012
Muni Seva Ashram, Vadodara	06th October, 2012
Adani Wilmar Limited, Mundra	09th October, 2012
Adani Port., Mundra	09th October, 2012
Adani Thermal Power Plant, Mundra	10th October, 2012
Central Institute for Plastic Engineering and Technology, Ahmedabad	17th October, 2012
Indo-German Tool Room, Ahmedabad	17th October, 2012
Jyoti CNC Automation Private Limited, Rajkot	25th June, 2013
Kadvani Forge Limited, Rajkot	25th June, 2013



Research & Development

Topic/Objectives	Concerned Person	Status
Gas Metal Arc Welding with Metal Core Wire	Dr. Vishvesh Badheka, PDPU	Completed
Weldability aspects of Low Activation Ferritic-Martensitic Steel Welded by Activated Flux Tungsten Inert Gas Welding	Dr. Vishvesh Badheka, PDPU	Completed
Friction Stir Welding of aluminium alloys used in space application (6061 T6, 2195 & 7050)	Dr. Vishvesh Badheka, PDPU	Completed
Friction Stir Welding of Stainless Steels & dissimilar metals	Dr. Vishvesh Badheka, PDPU	Ongoing
Parabolic turf of solar thermal: To Study Techno-economic feasibility of stationary parabolic turf for > 10 kW solar power.	Dr. Jatin Patel, PDPU	Proposed
Welding technology : Identify areas of mutual collaboration	Dr. Vishvesh Badheka, PDPU Mr. UN Puntambekar, ERDA	Proposed
Offshore Wind Energy : Feasibility Study for coastal region of Gujarat (funded by GoG)	Dr. S S Kachhwaha, PDPU Dr. Vimal Savsani, PDPU	Proposed



Faculty Profile

Dr. Surendra Singh Kachhwaha

Professor & HOD

Research Interest:
Refrigeration, Evaporative cooling, Renewable energy sources

Dr. Ajit Kumar N Shukla

Associate Professor

Research Interest:
Renewable Technologies, Turbo machines, Experimental methods, Thermal & Fluid engineering, Educational Research, Sustainable development

Dr. Vishvesh J Badheka

Associate Professor

Research Interest:
Friction Stir Welding, Metal Cored Arc Welding, Narrow Gap Welding, A-TIG

Dr. Rajesh Patel

Assistant Professor

Research Interest:
Fluid Catalytic Cracking (FCC), Thermal System Design

Dr. Vimal Savsani

Assistant Professor

Research Interest:
Investigation of Advanced optimization techniques, wind energy, Suspension Design for automobiles

Dr. Nanji Hadia

Assistant Professor

Research Interest:
Enhanced oil recovery processes, Oil recovery from unconventional reservoirs, Flow through porous media.

Mr. Jatin Patel

Lecturer

Research Interest:
Solar Thermal Power Plant; Solar water heating, drying & distillation.

Mr. Jaydeep Patel

Lecturer

Research Interest:
Development for sustainable Wind Energy for residential application, Optimization technique

Mr. Ramesh Bhoraniya

Lecturer

Research Interest:
Stability & transition of boundary layer flows

Mr. Garlapati Nagababu

Lecturer

Research Interest:
Offshore Wind energy, Finite Element Analysis, Linear Elastic Fracture Mechanics

Mr. Bhargav J Gadhvi

Lecturer

Research Interest:
Vehicle Dynamics, Nonlinear Mechanical Vibrations, Passive Dynamic Walking Robots

Mr. Jaykumar Vora

Lecturer

Research Interest:
Advanced manufacturing process, Advanced composite materials

Mr. Kush Mehta

Lecturer

Research Interest:
Friction Stir Welding for Dissimilar Material Joining, Advance Welding Processes

Mr. Mohit Mishra

Lecturer

Research Interest:
Mathematical Modelling, Modern Optimization Technique, Fuzzy Logic



Lab Facilities

Mechanical Engineering Department



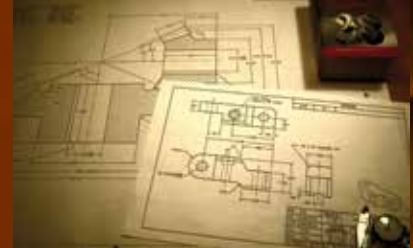
Strength of Materials

Knowledge of material properties of materials is a must for mechanical engineers to select appropriate material for different design applications. To serve this objectives, SOM lab is equipped with Universal testing machine, Universal compression machine, Torsional testing machine, Fatigue testing machine, Various hardness testing machines (digital version) and Impact testing machines.



Workshop and Fabrication

In this laboratory students acquire the knowledge of various trades and the usage of different tools such as files, hammers, chisels, snipers, anvils, cutting pliers, welding rods and different kinds of materials etc. It also deals with the various machining operations such as turning, milling, shaping, thread cutting, slotting, drilling, fitting, wood working, plumbing etc. Various machines are available for research projects also.



Engineering Graphics

Engineering drawing is known as the language of Mechanical engineer. To create world class engineers, this laboratory is provided with drawing facilities and drafting instruments. The students learn the fundamentals of industrial drawings for product design.



Manufacturing Processes

Manufacturing process laboratory is the heart of fabrication technology. This laboratory consists of highly advanced equipments related to Cutting /Forming/Welding processes like, SMAW, GTAW, GMAW, Gas cutting & Welding, Plasma cutting & welding, Spot welding, Friction stir welding, Butt welding, Automated GMAW, Universal lathe & Milling machines, Capstan turret lathe, Shearing machine, Shaper machine, Drilling machines, Miniature plastic injection molding machine, and various other metal cutting equipments.



Fluid Mechanics and Fluid Machinery

Mechanical Engineering Department has different laboratories with state of art facilities. Fluid mechanics and Machines laboratory has all new comprehensive experimental set ups catering to the requirements of curriculum and more. The laboratories cater to the needs of mechanical students in the subject of fluid mechanics and fluid machines. The laboratory is equipped with large number of equipments and experimental set ups to study the fundamentals and applied aspects of fluid mechanics and fluid machines.



Kinematics and Dynamics of Machines

Objectives of the laboratory are to impart practical knowledge on design and analysis of mechanisms for the specified type of motion in a machine. With the study of rigid bodies motions and forces for the transmission systems, machine kinematics and dynamics can be well understood. Practical demonstration and study is required for the balancing and vibration to have the insight for the dynamics of machines. Various experiments with governors, gyroscopes, balancing machines and universal vibration facilities are available to understand machine dynamics.



Thermodynamics, Heat Transfer

The Thermodynamics and Heat Transfer Laboratory is the fundamental laboratory for thermal engineering applications and thermal system designs. The laboratory aims at providing hands-on experience to the students on the underlying theory. The basic objectives of this laboratory are to engage in analyses and evaluation of experimental data, comparison between theoretical models and experimental data.



Refrigeration and Air Conditioning

Refrigeration and Air Conditioning Laboratory focuses on multidisciplinary academic and research work related to thermal comfort, design and optimization of cooling and heating systems while facilitating undergraduate students to conduct essential experiments related to Engineering course. The laboratory is equipped with modern refrigeration and air conditioning systems with data acquisition.



IC Engines

Study of engines is the most important part of mechanical engineering. Due care have been taken to provide various equipments for thorough understanding of practical aspect of the subject. Laboratory is equipped with experiment set up for Single Cylinder, 4 stroke, water cooled, Diesel engine Test Rig with Rope Brake Dynamometer; Exhaust Gas Calorimeter with Digital Tachometer; Equipment for Morse test on Multi-cylinder petrol engine with CNG kit; Turbo charged, 4 stroke, 4 cylinder diesel engine test rig with motoring test; VCR Engine performance test rig; 4-stroke petrol engine etc.



CAD / CAM

Design is among the major part of expertise in the mechanical engineering practices. To serve the objective state of art CAD/CAM laboratory is equipped with 90 latest computing systems with various software like CREO 2.0 (Pro-e), Solid Works 2012, ANSYS 13.0, NX 8.0, AUTO CAD 2012, MATLAB 2009, DWG Editor etc. CAM learning equipments include CNC miniature Lathes, 3-axis CNC miniature milling machines with readymade and in-house programs for different products.



Metrology and Measurement

The Metrology & Measurement laboratory is furnished with variety of instruments like Automatic Money Counter With Fake Money Detector, profile projector, gear rolling tester, micro meter screw gauges, Digital Vernier calipers, Telescopic gauge, Electronic comparator, Sine bars, Surface Measuring instruments, Dial bore gauges, Vernier depth/height gauges, Metric filler gauges, Taper/plain ring & plug gauges, Wire gauges, Dial gauges, Pyrometer, force & torque gauges, Slip gauges, Bevel protectors, Temperature calibration equipments, Hot water bath etc.



Non-Conventional Energy Sources

The non-conventional energy sources laboratory has a specialized in house simulator for teaching and research on solar flat plate collector and solar still. The precise instruments for solar radiation measurements with data logging enable the researcher for testing the solar systems in the open sky.

Students Achievements

Workshops / Training

- Students participated in a 2 day Workshop on “Automobile and Engine Design”, by Metawing Enterprises at PDPU.
- Students participated in a 2 day Workshop on “Advanced autonomous robotics”, by e-Trix Think LABS, at PDPU.
- Students participated in a 2 day Workshop on “Science of Robotics” by Robosapiens India, at IIT Gandhinagar.
- Students participated in a 2 day Workshop on “Embedded Systems with Arduino”, by IEEE at PDPU.
- Students participated in a 2 day Workshop on “Graphical Programming Language-Lab VIEW”, by-IEEE at PDPU.
- Students participated in a 2 day Workshop on “Creative Thinking” by Entrepreneurship cell at PDPU.
- Students participated in a 1 day Workshop on “Artificial Intelligence” at Nirma University.
- Students participated in a 1 day Workshop on “Global Imaging System” at PDPU.
- Students participated in a 7 day Training program on “Lathe, Milling & welding machines”, at PDPU.
- Students participated in a 4 day Training program on “Creo -2 parametric” by Mechinerzo at PDPU.

Conferences / Seminars

- Students attended an international conference on “Leadership training”, by ASME at Rajkot.
- Students attended a Seminar on “Youth Empowerment Program”, by Ahmedabad Management Association.
- Students attended an international conference on “explaining the Mpemba effect”, by Royal society of chemistry.
- Students attended an international seminar on “Geothermal Energy Initiative and Development” at PDPU.
- Students attended a conference on “SPAC (Students Professional Awareness Conference)”, by IEEE at DAIICT.

Competitions

- Students participated in BAJA 2013 organized by SAE and successfully qualified all rounds.
- Students won 3rd prize among 100+ colleges in the Green Campus Challenge 2013 organized by IIT Bombay.
- Student secured all India 2nd Rank in the National Creativity Aptitude Test 2013, by IIT Delhi.
- Students participated and won prizes in various quiz like Science Quiz, Auto Quiz, Environment Quiz, Technology Quiz, N-lite-N quiz, Open Quiz, Design Quiz, IIM Quiz etc organized by different colleges, agencies and organization across the state.
- Students participated and won prizes in various robotics, designing, model making and technology based competitions at different colleges like NUfest Nirma University, Autumnfest SVNIT, Techfest IIT Bombay; Techfest LJJET, Techfest IIT Gandhinagar, Techfest Bits pillani etc.
- Students carried out a Case study on Non Conventional Energy Sources at Muni Seva Ashram – Baroda.
- Student did project (Project title: “An Improved, Direct Approach of Closed-loop Identification of Industrial Processes - Mathematical Analysis and Experimental Verification”) in “NI(National Instruments)-yantra” competition.

Other inter, intra and national level paper published includes:

- Hybrid Electric Vehicles
- Intelligent Transportation Systems
- Alternative fuels for automobiles
- Environmental Pollution and Sustainability
- Energy and its perspectives- Issues, politics and policies
- Recent technology for sustainable development
- Automobile pollution and its mitigation

Student Profiles

Mechanical Engineering | 2014



A SUPRABHA SHARADA

suprabha.smc10@sot.pdpu.ac.in

Industrial Training : Essar Group
7th Semester Seminar Topic : Solar Thermal Power Conversion
Areas of Interest : Design/FEA/CAD/CAM/CAE, Renewable Energy



ADITYA SHARMA

aditya.smc10@sot.pdpu.ac.in

Industrial Training : InspirOn Engineering Pvt.Ltd
7th Semester Seminar Topic : On Road Wind Energy Generation
Areas of Interest : Design/FEA/CAD/CAM/CAE, Manufacturing



ADITYA SINGH

aditya.sinhamc10@sot.pdpu.ac.in

Industrial Training : KHS Machinery Pvt. Ltd
7th Semester Seminar Topic : Nano Internal Combustion Engines
Areas of Interest : Automobile, Energy



AKASH ROUT

akash.rmc10@sot.pdpu.ac.in

Industrial Training : Paradip Port Trust
7th Semester Seminar Topic : Dynamic Analysis of Suspension in ATVs
Areas of Interest : Automobile, Refrigeration and Air Conditioning



ANIMESH MATHUR

animesh.mmc10@sot.pdpu.ac.in

Industrial Training : IFFCO
7th Semester Seminar Topic : Solar Cooling by Vapour Absorption Cycle
Areas of Interest : Refrigeration & Air Conditioning, Energy



ANKITA NAREDA

ankita.nmc10@sot.pdpu.ac.in

Industrial Training : Maruti Suzuki India Ltd.
7th Semester Seminar Topic : District Cooling System
Areas of Interest : Automobile, Energy



ANUP SHARMA

anup.smc10@sot.pdpu.ac.in

Industrial Training : ONGC
7th Semester Seminar Topic : CSP (Concentrated Solar Power) for Process Heat
Areas of Interest : Welding, Energy



APOORV VIJAY

Apoorv.vmc10@sot.pdpu.ac.in

Industrial Training : Mahindra Gear & Transmission Ltd.
7th Semester Seminar Topic : Exhaust Gas driven VARS for Automobiles
Areas of Interest : Automobile, Operation Management



ASHITA MODAK

ashita.mmc10@sot.pdpu.ac.in

Industrial Training : Erhardt and Leimer
7th Semester Seminar Topic : Space Robotics
Areas of Interest : Automobile, Thermal Engineering



BIRAL KUMAR BRAHMA

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Industrial Training : IOCL
7th Semester Seminar Topic : Solar Water Purification using Thermal Method
Areas of Interest : Fluid Mechanics & Machinery, Energy



BRIJESH NANAVATI

brijesh.nmc10@sot.pdpu.ac.in

Industrial Training : Investment & Precision Castings
7th Semester Seminar Topic : Solar Water Distillation
Areas of Interest : Automobile, Design/FEA/CAD/CAM/CAE



CHANDRAKANT KHATRI

chandrakant.kmc10@sot.pdpu.ac.in

Industrial Training : Mahindra Gear & Transmission Ltd.
7th Semester Seminar Topic : Geothermal Energy for Heating & cooling applications
Areas of Interest : Automobile, Thermal Engineering



DARSHAN YADAV

darshan.ymc10@sot.pdpu.ac.in

Industrial Training : Kataria Automobile Pvt. Ltd.
7th Semester Seminar Topic : Sensotronic Brake Control
Areas of Interest : Automobile, Design/FEA/CAD/CAM/CAE



DASHARATH SINGH UDAWAT

dashrath.rmc10@sot.pdpu.ac.in

Industrial Training : Punj Lloyd Ltd.
7th Semester Seminar Topic : LPG Refrigeration Sys for Commercial Applications
Areas of Interest : Automobile, Refrigeration and Air Conditioning



DEEP SHAH

deep.smc10@sot.pdpu.ac.in

Industrial Training : Popular Motors (Maruti Suzuki)
7th Semester Seminar Topic : Distortion Prevention Techniques in Welding
Areas of Interest : Automobile, Design/FEA/CAD/CAM/CAE



DHAVAL PATEL

dhaval.pmc10@sot.pdpu.ac.in

Industrial Training : Tata Motors
7th Semester Seminar Topic : Design Study of Non Pneumatic Tyres
Areas of Interest : Operations Management, Design/FEA/CAD/CAM/CAE



DHRUV PATEL

dhruv.pmc10@sot.pdpu.ac.in

Industrial Training : Popular Motors (Maruti Suzuki)
7th Semester Seminar Topic : Welding Of Titanium Alloys
Areas of Interest : Automobile, Production



DIVYANG PATEL

divyang.pmc@sot.pdpu.ac.in

Industrial Training : Dresser-Rand
7th Semester Seminar Topic : Torsional Analysis of Motorized Reciprocating Compressor
Areas of Interest : Automobile, Fluid Mechanics & Machinery



GAJENDRA SINGH

gajendra.smc10@sot.pdpu.ac.in

Industrial Training : Amul Dairy
7th Semester Seminar Topic : Shielding Gases in Arc Welding
Areas of Interest : Automobile, Refrigeration and Air Conditioning



GAURAV BHATI

gaurav.bmc10@sot.pdpu.ac.in

Industrial Training : Indian Ordnance Factory
7th Semester Seminar Topic : Design & Development of Earth Tube Heat Exchanger
Areas of Interest : Automobile, Energy



HARDIK BHANVADIYA

hardik.bmc10@sot.pdpu.ac.in

Industrial Training : Amul India Pvt. Ltd.
7th Semester Seminar Topic : HARD TURNING
Areas of Interest : Automobile, Manufacturing



JAGAT SHETH

Jagat.smc10@sot.pdpu.ac.in

Industrial Training : Dresser-Rand
7th Semester Seminar Topic : Different types of Bushing used in different Industries
Areas of Interest : Automobile, Design/FEA/CAD/CAM/CAE



JAGDISH MEENA

jagdish.mmc10@sot.pdpu.ac.in

Industrial Training : ONGC
7th Semester Seminar Topic : Wind Energy Generation
Areas of Interest : Fluid Mechanics & Machinery, Energy



JOY PANDYA

joy.pmc10@sot.pdpu.ac.in

Industrial Training : KHS Machinery Pvt. Ltd.
7th Semester Seminar Topic : Design and Optimization of Gear Box
Areas of Interest : Automobile, Refrigeration and Air Conditioning



JUGAL PATEL

jugal.pmc10@sot.pdpu.ac.in

Industrial Training : GNFC
7th Semester Seminar Topic : Inverse Pendulum
Areas of Interest : Automobile, Design/FEA/CAD/CAM/CAE



KIRTAN KHAJANCHI

kirtan.kmc10@sot.pdpu.ac.in

Industrial Training : Farki
7th Semester Seminar Topic : Nano Technology
Areas of Interest : Automobile, Production



MANEESH GONDESI

maneesh.gmc10@sot.pdpu.ac.in

Industrial Training : Tata Motors
7th Semester Seminar Topic : New and Renewable Energy
Areas of Interest : Automobile, Energy



MOHIT ARORA

mohit.amc10@sot.pdpu.ac.in

Industrial Training : Caparo Maruti Limited
7th Semester Seminar Topic : i-VTEC
Areas of Interest : Automobile, Operation Management



MRIGANKA KALITA

mriganka.kalita@sot.pdpu.ac.in

Industrial Training : IOCL
7th Semester Seminar Topic : Vibration Reduction Techniques of Industrial Pumps
Areas of Interest : Refrigeration and Air Conditioning, Energy



NABNEET SETHI

nabneet.smc10@pdpu.sot.ac.in

Industrial Training : Bhavani Industries
7th Semester Seminar Topic : Common Rail Direct Injection (CRDi) Engines
Areas of Interest : Automobile, Operation Management



NAVEEN S

Naveen.Smc10@sot.pdpu.ac.in

Industrial Training : IOCL
7th Semester Seminar Topic : Challenges in Underwater Welding
Areas of Interest : Refrigeration and air conditioning, Welding



NEEL MODI

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Industrial Training : Popular Motors (Maruti Suzuki)
7th Semester Seminar Topic : Advanced Suspension Systems
Areas of Interest : Operation Mangement, Design/ FEA/CAD/CAM/CAE



NISARG PATEL

nisarg.pmc10@sot.pdpu.ac.in

Industrial Training : Kataria Automobile Pvt. Ltd.
7th Semester Seminar Topic : Air engine vehicle
Areas of Interest : Automobile, Refrigeration and Air Conditioning



NITISH BHARDWAJ

nitish.bmc10@sot.pdpu.ac.in

Industrial Training : Mahindra Gear & Transmission Ltd.
7th Semester Seminar Topic : Heat Rejection & Cooling System of IC Engine
Areas of Interest : Automobile, Manufacturing



PARIDH PATEL

paridh.pmc10@sot.pdpu.ac.in

Industrial Training : Arham Pumps Ltd.
7th Semester Seminar Topic : Car Hood Mounted Vapor Absorption AC System
Areas of Interest : Metallurgy, Refrigeration and air conditioning



PRANAV SHUKLA

pranav.shuklamc10@sot.pdpu.ac.in

Industrial Training : InspirOn Engineering Pvt. Ltd.
7th Semester Seminar Topic : Arc Physics
Areas of Interest : Thermal Engineering, Energy



PRASHANT ARYA

prashant.amc10@sot.pdpu.ac.in

Industrial Training : KHS Machinery Pvt. Ltd.
7th Semester Seminar Topic : Optimization of NP-Hard Problems
Areas of Interest : Operations Management, Industrial Engineering



PUSHPENDRA SINGH

pushpendra.smc10@sot.pdpu.ac.in

Industrial Training : KHS Machinery Pvt. Ltd.
7th Semester Seminar Topic : FEA Analysis of Mechanical Systems using ANSYS
Areas of Interest : RAC, Design/FEA/CAD/CAM/CAE



RAVI CHUKKA

ravi.cmc10@sot.pdpu.ac.in

Industrial Training : Tata Motors
7th Semester Seminar Topic : Design of a Hydraulic Reaction Turbine Blade
Areas of Interest : Design/FEA/CAD/CAM/CAE, Mechanical Systems



SANT MEENA

sant.mmc10@sot.pdpu.ac.in

Industrial Training : Dresser-Rand
7th Semester Seminar Topic : Technologies for Concentrated Solar Thermal Applications
Areas of Interest : Fluid Mechanics & Machinery, RAC



SARVJOT SINGH

sarvjot.smc10@sot.pdpu.ac.in

Industrial Training : Hind. Coca-Cola Beverages Pvt. Ltd.
7th Semester Seminar Topic : Welding Defects and Significance
Areas of Interest : Manufacturing, Welding



SAURABH SINGH

saurabh.smc10@pdpu.ac.in

Industrial Training : IFFCO
7th Semester Seminar Topic : Regenerative Braking
Areas of Interest : Refrigeration and air conditioning, Energy



SHALIN SHAH

shalin.smc10@sot.pdpu.ac.in

Industrial Training : Kataria Automobile Pvt. Ltd.
7th Semester Seminar Topic : Application of Robotics in Medical Sciences
Areas of Interest : Automobile, Robotics



SHIVANG MISHRA

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Industrial Training : Arham Pumps Ltd.
7th Semester Seminar Topic :
Areas of Interest : Operations Management, Manufacturing



SHUBHAM SHARMA

shubham.smc10@sot.pdpu.ac.in

Industrial Training : Minda Corporation Limited
7th Semester Seminar Topic : Vehicle Dynamics
Areas of Interest : Thermal Engineering, Refrigeration & Air Conditioning



SWAPNIL CHOUDHARY

swapnil.cmc10@sot.pdpu.ac.in

Industrial Training : Hind. Coca-Cola Beverages Pvt. Ltd.
7th Semester Seminar Topic : Concentrating Solar Power Energy From Mirrors
Areas of Interest : Manufacturing, Energy



UTTAM SINGH

uttam.smc10@sot.pdpu.ac.in

Industrial Training : KHS Machinery Pvt. Ltd.
7th Semester Seminar Topic : Wind Turbines for Residential Applications
Areas of Interest : Thermal Engineering, Refrigeration & Air Conditioning



VISHWAS JAGGI

vishwas.jmc10@sot.pdpu.ac.in

Industrial Training : Kataria Automobile Pvt. Ltd.
7th Semester Seminar Topic : Intelligent Vehicles
Areas of Interest : Production, Design/FEA/CAD/CAM/CAE



YASH DAVE

yash.dmc10@sot.pdpu.ac.in

Industrial Training : Bosch Rexroth India Limited
7th Semester Seminar Topic : Hydrogen Fuel Vehicle
Areas of Interest : Automobile, Energy



YASH NASIT

yash.nmc10@sot.pdpu.ac.in

Industrial Training : Vadinar power Company Ltd. (Essar)
7th Semester Seminar Topic : Cryogenic Fuel Engine
Areas of Interest : Automobile, Manufacturing



ELECTRICAL Engineering

Electricity is a vital form of energy and is an inevitable part of our lives. To match steps with this ever expanding world of electricity and contribute to its betterment we offer Graduate, Post Graduate level course in Electrical Engineering which deals with subjects like Fundamentals of Electrical Engineering, Electrical Machines and Design, Electrical Power Systems and Design, High Voltage Engineering, Electrical Measurements, Power Electronics and Drives, Microprocessors, Instrumentation and Control System, etc.

In order to strengthen the practical know-how for the theoretical background studied by the students various laboratories are available at their disposal along with a fully equipped computer center with latest softwares.



Dr. Vivek Pandya

Head - Department of Electrical Engineering

“Welcome to the Division of Electrical Engineering. This Academic clique of Faculty members specializes in Power & Energy Technologies. It is one of the entities of Pandit Deendayal Petroleum University which has been an integral part of the School of Technology. Its Scholastic & Research Endeavors are focused on Energy Sustainability of mankind. With the Rising plea of Electrical Engineers in the Government & the Private Sectors, the department is making the best efforts to yield highly trained & capable engineers who can take up the challenges of the real world.

The excellence of academic directives, conduct guidelines & institution activities are designed to produce proficient & efficacious engineers. In the department, the focus is on concocting Proficient Engineers. New technologies and protocols for Electrical Contrivances and Power Systems are emerging and being standardized promptly. To keep the undergraduates contemporary with these encroachments, the curriculum is designed accordingly.

The Department of Electrical Engineering has a fine blend of distinguished as well as fresh and dynamic personalities as faculty, who are passionately engaged in imparting quality education.

The faculty strives to foster & embolden a schooling methodology that is both Practical and Theoretical in approach. This emphasis has led to Successful Projects and Trainings.”

Course Curriculum

B.Tech - Electrical Engineering

Semester I

- Mathematics I
- Applied Mechanics
- Chemistry
- Computer Programming
- Communication Skills
- Engineering Graphics
- Environmental Science

Semester II

- Mathematics II
- Physics
- Elements Of Civil Engineering
- Elements Of Electrical Engineering
- Elements Of Electrical Engineering
- Engineering Materials
- Workshop Practice

Semester III

- Mathematics III
- Network Theory
- Electronic Devices And Circuits
- Electronic And Electrical Engineering Materials
- Electromechanical Energy Conversion I
- Electrical Measurement And Measuring Instruments

Semester IV

- Power System I
- Analog And Digital Electronics
- Communication Engineering
- Control Theory
- Electromechanical Energy Conversion II
- Numerical Methods

Semester V

- Electromagnetics
- Instrumentation And Control
- Microprocessor And Microcontroller
- Modeling And Simulation
- Power System II
- Power Electronics

Semester VI

- High Voltage Engineering
- Power System Design And Practice
- Switchgear And Protection
- Testing And Commissioning Of Electrical Machines
- Renewable Energy Engineering
- Industrial Psychology

Semester VII

- Electrical Machine Design I
- Power System Operation And Control
- Advanced Microcontroller And Embedded System
- Department Elective I (Power Quality/ Energy Management)

Semester VIII

- Electrical Machine Design II
- Electrical Power Utilization And Traction
- Digital Signal Processing
- Department Elective II (Advances In Power System/Ehv Ac And Dc Transmission)
- Major Project
- Project Management



Student Activities

Clubs/Forums & Chapters

IEEE Student Branch, PDPU

Institute of Electrical and Electronics Engineers (IEEE), an association dedicated to advancing innovation and technological excellence for the benefit of humanity, is the world's largest technical professional society. It is designed to serve professionals involved in all aspects of the electrical, electronic and computing fields and related areas of science and technology that underline modern civilization.

IEEE Student Branch at PDPU was established in June, 2012.

PDPU IEEE student branch, its core purpose is to serve professionals involved in all aspects of the electrical, electronic and computing fields and related areas of science and technology that underline modern civilization.

The goal of the IEEE student chapter programs is to ensure the growth of skill and knowledge in mainly the energy-related technical professions and to foster individual commitment to continuing education among members.

The purpose shall be the dissemination of knowledge of the theory and practice of all aspects of electrical engineering, electronics, radio, allied branches of engineering or the related arts and sciences, as well as the furtherance of the professional development of the Students.

Since its commencement it has been successfully organizing different activities and events such as workshops, guest lectures and seminars, which provides students a platform to develop their technical skills. Some of the eminent events are LabVIEW workshop organized in collaboration with National Instruments; Scilab Workshop organized in collaboration with IIT Bombay and IEEE Student Section Congress 2013.

Electrical Students Professional Association (ESPA)

The forum's objectives are to:

- Facilitate communication and cohesiveness among students, faculty, other student organizations, and the university. B. To consider issues and to review, recommend, or formulate policies (as appropriate) in areas primarily or exclusively involving the Student Body.
- To foster technological innovation and excellence for the benefit of humanity.
- To give an information about Technical work in Professional world.
- To keep the members consistently updated about the new upcoming technologies and inventions.



Research & Development

Topic/Objectives	Concerned Person	Status
Partial Identification Framework for Multi Input Multi Output (MIMO) System Identification	Mr. Nishant Parikh	Completed
Security Assessment in Deregulated Power System	Mr.Astik Dhandhiya	Proposed
Guided student Science & Technology research project "Space Vector PWM based Induction Motor Drive", Supported by GUJCOST, Government of Gujarat	Vatsal Shah	Proposed
Closed-loop Identification of Quadruple Tank System using an Improved Indirect Approach, International Symposium on Advanced Control of Chemical Processes, July 10-13, 2012, at Furama Riverfront Hotel, Havelock Road, Singapore.	Nishant Parikh	Completed



Faculty Profile

Dr. Vivek Pandya

Associate Professor & HOD

Research Interest:

Protections of EHVAC Lines, Power System Protection

Dr. Bhavesh Bhalja

Associate Professor

Research Interest:

Digital Protection & Automation, Neural Network & Fuzzy Logic, Genetic Algorithm and Partial Swarm Optimization, Mathematical Modelling and Simulation

Mr. Bhuvanesh Oza

Adjunct Professor

Research Interest:

Power System Security, Design of Substation

Dr. Pratik Shah

Assistant Professor

Research Interest:

Computer Vision, Image Processing

Mr. Anil Markana

Lecturer

Research Interest:

Advance Process Control, Optimal Control strategies like Model Predictive Control, Linear Quadratic Gaussian Control, GPC, Minimum Variance Control

Mr. Astik Dhandiya

Lecturer

Research Interest:

Power system stability, Static security assessment

Mr. Nishant Parikh

Lecturer

Research Interest:

Mathematical Modelling & System Identification

Mr. Vatsal Shah

Lecturer

Research Interests:

Digital Power Control, Embedded Systems

Mr. Nilesh Patel

Lecturer

Research Interests:

Electrical Machines and Drives, Power Electronics and Power Quality

Mr. Siddharth Joshi

Lecturer

Research Interests:

Wind Energy System and its Grid connection, Maximum power point tracking of stand alone systems

Ms. Mary Prasanna

Lecturer

Research Interests:

Unit commitment of thermal units considering pumped storage hydro plants, Performance analysis of different loss coefficients in calculation of transmission losses.



Lab Facilities

Electrical Engineering Department



Power System and Protection

Protective relaying is a vital part of any electric power system: unnecessary during normal operation but very important during trouble, faults, and abnormal disturbances. Properly applied protective relaying initiates the disconnection of the trouble area while operation and service in the rest of the system continue.

With a view point of developing technical hands-on know how to theoretical concept studied by students of the university, the laboratory is indigenously developed.



Modelling and Simulation

In this Lab students get to work on many efficient softwares like LabVIEW, MATLAB, Scilab, PSIM, Qaurc Software.



Analog and Digital

The Lab is equipped with various training kits to explore the practical aspects of topics from subjects like Electronic Devices and Circuits, Analog and Digital Electronics. At the same time, students are encouraged to prepare the complete circuit on bread-board and verify the results with the results obtained from the training kits.



High Voltage

The High Voltage laboratory of Pandit Deendayal Petroleum University, sponsored by GSECL is one of the best in its class. It is a small sized laboratory with good number of quality equipments



Power Electronics and Drives

The lab conducted includes learning of gate/bus triggering circuits, single phase rectifier, switched mode dc-dc converter, SEDC (chopper fed), SEDC motor drive (controller rectifier fed) and PMDC motor drive (controller rectifier fed) etc. The lab sessions are apt as per the requirement of the course



Electromechanical Energy Conversion

There are equipments like single phase step up, step down and isolation transformers, dc shunt, series motor, three phase induction motor, induction motor, dc generators, and various machines for performing various tests related with the specific machine. This lab gives us the precise opportunity to get a hands-on experience with machines and help us develop clarity and clear perception.



Communication

This lab is equipped with all major training kits required to study the concepts of Analog Communication Methods (like Amplitude, Frequency and Phase Modulation and Demodulation) and Digital Communication Methods (Sampling Theorem, ASK, FSK, PSK)



Network Theory

The presence of basic electrical equipments such as interconnection of two-port network, RL/RC circuit, T and Pi network and home electrical wiring training system make the laboratory sufficient to develop the basic course structure.



Process Dynamics and Control

Process Dynamics and control is one of the most efficient and exquisite lab in PDPU.



Microprocessor & Microcontroller

This Lab has various system development board cum trainer to understand different Microprocessor and Microcontrollers. It has advanced trainer kit for various processors to study assembly programming as well as interfacing of these processors with various peripherals

Students Achievements

- Mohit Misra and Aditya Agrawal have received a Merit Scholarship from the University
- Jaimin Jha and Saruch Rathore have won 1st Prize in paper presentation competition at Techno fest organized by Federation of private universities of Gujarat.
- Dhruven Shah has successfully completed a project on changeover time reduction and C.I.P. Reduction from Coca Cola beverages pvt ltd.
- Malav Baterywala completed a project with the company "Assosiated" regarding electrical and mechanical inspection using thermography
- Aditya Agrawal has successfully completed his project on Motor Protection and Inverter technology for compressors from Frascold, Italy
- Mohit Misra has successfully completed projects under GNFC:Modern Relay Coordination, Frequency Based Load Shedding Time Synchronizing and Data Integration of Different Substation SCADA
- Saruch Rathore is designing an open source alternative to LabVIEW from IIT - Bombay
- Prathmesh Kalubarme won first prize at 'The Bizmark' at IIT-G
- Aditya Agrawal won first prize at 'The BUTLER DID IT' and 'JOBLESS' at IIT-G
- Jaimin Jha studied Synchronous Generator Protection at CPP, RIL, Jamnagar



Student Profiles

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AADARSH JEEVAN CLERK

aadarsh.cee10@sot.pdpu.ac.in

Industrial Training : SKP Transformers
7th Semester Seminar Topic : Solar PV Module Based DC - DC Boost Converter
Areas of Interest : Power System, Transformers



ABHIJEET SINGH BHATI

abhijeet.bee10@sot.pdpu.ac.in

Industrial Training : Rajasthan Rajya Vidyut Prasaran Nigam Limited
7th Semester Seminar Topic : Power Quality Improvement
Areas of Interest : Control Systems, Energy Generation



ABHINAV DUBEY

abhinav.dee10@sot.pdpu.ac.in

Industrial Training : Hindustan Aeronautics Ltd.
7th Semester Seminar Topic : Switch Reluctance Motor
Areas of Interest : Renewable Energy, Electrical Machine



ADITI MAHAJAN

aditi.mee100@sot.pdpu.ac.in

Industrial Training : Gandhinagar Thermal Power Station
7th Semester Seminar Topic : Design and Development of a Comprehensive Software for Induction Motor Protection
Areas of Interest : Power Systems, Electrical Machines



ADITYA AGRAWAL

aditya.aee10@sot.pdpu.ac.in

Industrial Training : Frascold Spa, Italy
7th Semester Seminar Topic : Analytical study and effect of various parameters in the distance measurement of series compensated transmission line
Areas of Interest : Electrical Machines, Power Systems, Protection



ANKIT CHOUDHARY

Ankit.cee10@sot.pdpu.ac.in

Industrial Training : Gujarat Energy Transmission Corp.
7th Semester Seminar Topic : Power Quality Improvement
Areas of Interest : Testing of Machines, Renewable Energy



ANSHIK ANKIT

ankit.aee10@sot.pdpu.ac.in

Industrial Training : Ratnagiri Gas and Power Pvt. Ltd.
7th Semester Seminar Topic : CSP (Concentrated Solar Power) for Process Heat
Areas of Interest : Power System, Renewable Energy



ASHWIN KUMAR JADAV

ashwin.kee10@sot.pdpu.ac.in

Industrial Training : GAIL India Ltd.
7th Semester Seminar Topic : Issues related to grid stability connected with wind farms
Areas of Interest : Switchgear and Protection, Renewable Energy



BASIL PAUL VARGHESE

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Industrial Training : Reliance Industries
7th Semester Seminar Topic : Issues related to grid stability connected with wind farms
Areas of Interest : Energy Management, Transformers



BHAGWAT SINGH

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Industrial Training : Kota Super Thermal Power Plant
7th Semester Seminar Topic : Electrical Machines and Their Control and Protection
Areas of Interest : Machines, Renewable Energy



CHIRAG NAYYAR

chirag.ee10@sot.pdpu.ac.in

Industrial Training : Delhi Metro Rail Corp.
7th Semester Seminar Topic : Power Quality Improvement
Areas of Interest : Power System, Renewable energy



DARSHANSUKHADIYA

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Industrial Training : Gandhinagar Thermal Power Station
7th Semester Seminar Topic : Design of 66kV Substation
Areas of Interest : Power System, Machine Design



DARSHDEEP SINGH

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Industrial Training : Gujarat Energy Transmission Corp.
7th Semester Seminar Topic : Boost converter for Solar PV Module
Areas of Interest : Power System, Renewable Energy



DHRUVEN SHAH

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Industrial Training : Hindustan Coco-Cola Beverages Ltd.
7th Semester Seminar Topic : Analytical Study and Effect of Various Parameters in The Distance Measurement of Series Compensated Transmission line
Areas of Interest : Power System, Renewable Energy



DUSHYANT DADHICH

dushyant.dee10@sot.pdpu.ac.in

Industrial Training : Transformers & Rectifiers (I) Ltd.
7th Semester Seminar Topic : Power System Security Assessment by Decision Tree
Areas of Interest : Renewable Energy, Transformers



JAIMEEN JAIN

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Industrial Training : Seimens Ltd.
7th Semester Seminar Topic : Energy Management
Areas of Interest : Power System Protection, Electrical Machines



JAIMIN JHA

jaimin.jee10@sot.pdpu.ac.in

Industrial Training : Electrotherm India Ltd.
7th Semester Seminar Topic : Design and Development of a Comprehensive Software for Induction Motor Protection
Areas of Interest : Electrical Machines, Power System



JAIMIN PATEL

jaimin.pee10@sot.pdpu.ac.in

Industrial Training : Gandhinagar Thermal Power Plant
7th Semester Seminar Topic : Electrical Machines and their Control and Protection
Areas of Interest : Power System, Renewable Energy



JIGNESH CHAUDHARY

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Industrial Training : Gandhinagar Thermal Power Plant
7th Semester Seminar Topic : Electrical Machines and their Control and Protection
Areas of Interest : Power System, Renewable Energy



KAILASH KHILERI

kailash.kee10@sot.pdpu.ac.in

Industrial Training : Kota Super Thermal power Plant
7th Semester Seminar Topic : Power System Security Assessment by Decision Tree
Areas of Interest : Renewable Energy, Transformers



KARAN PATEL

Karan.see10@sot.pdpu.ac.in

Industrial Training : Gandhinagar thermal Power Plant
7th Semester Seminar Topic : Solar Radiation based Temperature Control of Air Conditioning
Areas of Interest : Power System, Machine Design



KARTAVYA BHAGAT

Kartavya.bee10@sot.pdpu.ac.in

Industrial Training : 400 KV Substation of Gujarat Energy Tansmission Corp.
7th Semester Seminar Topic : Solar Energy based DC-DC Boost converter
Areas of Interest : Automobile, Power System



KETUL PATEL

Ketul.pee10@sot.pdpu.ac.in

Industrial Training : Hindustan Coca-Cola Beverages Ltd.
7th Semester Seminar Topic : Electrical Machines and their Operation and Control
Areas of Interest : Power System, Electrical Machines



KRISTAK GONDALIYA

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Industrial Training : Gandhinagar Thermal Power station
7th Semester Seminar Topic : Substation Design
Areas of Interest : Power System, Machine Design



KUNAL SHARMA

kunal.see10@sot.pdpu.ac.in

Industrial Training : Kota Super Thermal Power Plant
7th Semester Seminar Topic : Switch Reluctance Motor
Areas of Interest : Power System, Electrical Machines



MALAV BATERIWALA

malav.bee10@sot.pdpu.ac.in

Industrial Training : Hindustan Coca-Cola Beverages Pvt. Ltd.
7th Semester Seminar Topic : Auto Tuning of PID Controllers
Areas of Interest : Control Theory, Modelling and Simulation



MILI PATEL

mili.pee10@sot.pdpu.ac.in

Industrial Training : Gandhinagr Thermal Power Station
7th Semester Seminar Topic : Solar Radiation based Temperature Contol of Air Conditioning
Areas of Interest : Renewable Energy, Control Theory



MOHIT MISRA

mohit.mee10@pdpu.sot.ac.in

Industrial Training : Gujarat Narmada Valley Fertilisers Corporation Ltd.
7th Semester Seminar Topic : Software Development on Transmission Line Design
Areas of Interest : Power System Practice & Design, Switchgear and Protection



MOHIT SHARMA

mohit.see10@sot.pdpu.ac.in

Industrial Training : Adani Power Limited, Mundra
7th Semester Seminar Topic : Power system Security Assessment by Decision Tree
Areas of Interest : Power system, Renewable Energy



NANDISH TRIVEDI

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Industrial Training : Voltamp Transformers
7th Semester Seminar Topic : GSM based Home Security system
Areas of Interest : Microprocessor & Microcontroller, Renewable Energy



NIRMAL CHAUDHARY

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Industrial Training : Gandhinagar Thermal Power Station
7th Semester Seminar Topic : Issues related to Grid stability connected with Wind Farms
Areas of Interest : Power System, Electrical Machines



NITIN JASWANI

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Industrial Training : Diamond Transformers Pvt Ltd.
7th Semester Seminar Topic : Energy Management
Areas of Interest : Power System, Electrical Machines



PRAMOD PARIHAR

pramod.pee10@sot.pdpu.ac.in

Industrial Training : Kota super Thermal Power station
7th Semester Seminar Topic : Power System Security Assessment by Decision tree
Areas of Interest : Transformers, Renewable Energy



PRATHMESH KALUBARME

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Industrial Training : Bhaskaracharya Institute of Space Applications and Geo Informatics
7th Semester Seminar Topic : Energy Management
Areas of Interest : Power System, Control Theory



PRIYANKA SEHGAL

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Industrial Training : Bharat Heavy Electricals Ltd.
7th Semester Seminar Topic : Substation Design
Areas of Interest : Transformers, Renewable Energy



RAHUL MISRA

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Industrial Training : Seimens Ltd.
7th Semester Seminar Topic : Modeling and Control of Industrial Processes Using Three Tank and Inverted Pendulum as Test-Bad for Experimentation
Areas of Interest : Electrical Machines, Control & Automation



RAJAN KUMAR JAISWAL

rajan.jee10@sot.pdpu.ac.in

Industrial Training : Kota Super Thermal Power Plant
7th Semester Seminar Topic : Switch Reluctance Motor
Areas of Interest : Power system Protection, Power Quality



ROSHAN LALCHANDANI

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Industrial Training : Gandhinagar Thermal power Plant
7th Semester Seminar Topic : Issues Related to Grid Stability connected to wind farms
Areas of Interest : Power System, Electrical Machines



RUTU SANTOKI

rutu.see10@sot.pdpu.ac.in

Industrial Training : Angel Pumps Ltd.
7th Semester Seminar Topic : Solar Radiation based Temperature Control of Air conditioning
Areas of Interest : Power System Practice and Design, Renewable energy



SANDIP CHOUDHARY

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Industrial Training : Gandhinagar Thermal Power Plant
7th Semester Seminar Topic : Substation Design
Areas of Interest : Power system, Machine Design



SARUCH RATHORE

saruch.see10@sot.pdpu.ac.in

Industrial Training : Diesel Locomotive Works, Indian Railways
7th Semester Seminar Topic : Modeling and Control of Industrial Processes Using Three Tank and Inverted Pendulum as Test-Bad for Experimentation
Areas of Interest : Instrumentation & Control, Modelling and Simulation



SHIKHAR GUPTA

shikhar.gee10@sot.pdpu.ac.in

Industrial Training : Kota Super Thermal Power Plant
7th Semester Seminar Topic : GSM Based Home Security System
Areas of Interest : Power System, Digital Electronics



SHREY PATEL

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Industrial Training : Metro World Ceramic Tiles Manufacturing Company
7th Semester Seminar Topic : Programming and Auto Tuning of PID Controllers
Areas of Interest : Power system, Instrumentation & Control



SHREYA SHUKLA

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Industrial Training : JCT Electronics Ltd.
7th Semester Seminar Topic : Design and Development of a Comprehensive Software for Induction Motor Protection
Areas of Interest : Power System, Switchgear and Protection



SIDDHARTH SHAH

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Industrial Training : Microsystems
7th Semester Seminar Topic : GSM Based Home Security system
Areas of Interest : Microprocessor and Microcontroller, Modelling and Simulation



SPARSH WADHWA

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Industrial Training : Transformers & Rectifiers (I) Ltd.
7th Semester Seminar Topic : Design and Development of a Comprehensive Software for Induction Motor Protection
Areas of Interest : Power Systems, Swithgear and Protection



SURABHI BHAKRE

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Industrial Training : Macawber Beekay Pvt. Ltd.
7th Semester Seminar Topic : Software Development On
Transmission Line Design
Areas of Interest : Power System, Electrical Machines



SUSHANT SRIVASTAVA

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Industrial Training : Indian Farmers Fertilizers
Cooperative Ltd.
7th Semester Seminar Topic : Embedded System on Remote
Control
Areas of Interest : Electrical Machines, Power System
and Protection



VIKAS TEKANI

vikas.tee10@sot.pdpu.ac.in

Industrial Training : Powerlite Electricals
7th Semester Seminar Topic : Solar Energy Based 9V to 12V DC -
DC Boost Converter
Areas of Interest : Transformers, Power System



VIKRAM KUMAR

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Industrial Training : Gujarat Energy Transmission Corp.
7th Semester Seminar Topic : Energy Management
Areas of Interest : Energy Management, Electrical
Machines



VIRANCH PARMAR

viranch.pee10@sot.pdpu.ac.in

Industrial Training : Gujarat Energy Transmission Corp.
7th Semester Seminar Topic : Auto Tuning of PID Controllers
Areas of Interest : Power System, Instrumentation &
Control



VISHESH SHAH

vishesh.see10@sot.pdpu.ac.in

Industrial Training : Gas Turbine Power Plant, Reliance
7th Semester Seminar Topic : GSM Based Home Security System
Areas of Interest : Power System, Electrical Machines



CIVIL

Engineering

Civil Engineering is considered to be the most versatile branch among all the engineering branches. The Department of Civil Engineering since its formation is committed to research and development in civil engineering. The vision of the department is to give an exposure to budding civil technocrats to various challenges in the profession.

The department offers courses at undergraduate level, graduate level and PhD doctorate. The main areas of research include Geotechnical Engineering, Structural Engineering, Hydrology, GIS and GPS Systems, Environmental Engineering, Concrete Technology and Transportation Engineering. The department also handles consultancy works and projects.



Prof. Anupam K. Singh

Head - Department of Civil Engineering

One of the principal departments of School of Technology at PDPU, the Department of Civil Engineering has grown tremendously since its inception in the year 2010. The department has developed strong links with the building and construction industry, as well as academic and research institutions, both within and outside the country. Besides high quality teaching and instruction at both undergraduate (B Tech) and postgraduate levels (M.Tech and Ph.D), we are actively involved in applied research, consultancy, and provide high quality technical advisory support through Research and Development (R&D) and Consultancy. The Department of Civil Engineering with its multifaceted faculty continues to maintain its strong presence nationally and internationally.

The academic activities of the Department emphasizes deep understanding of fundamental principles, development of creative ability to handle the challenges of Civil Engineering, and the analytical ability to solve problems which are interdisciplinary in nature. The Department also encourages its students to engage in extra-curricular and co-curricular activities, essential for development, nurturing of team spirit, and developing organizational skills.

The faculty, besides doing applied research also ensures that the students of the department are ready to face the challenges of the professional world by providing them with a sound conceptual understanding of their respective disciplines, and also by playing a huge role in their development as individuals who can lead the world.

Department of Civil Engineering, PDPU, takes tremendous pride today in the student body for its maturity and leadership skills. We are confident that these young men and women will not only bring glory to the Institute in the years ahead, but will also be instrumental in changing the society, both technologically and otherwise.

Course Curriculum

B.Tech - Civil Engineering

Semester I

- Maths I
- Engineering graphics
- Applied mechanics
- Chemistry
- Communication Skills
- Environmental studies
- Computer Programming

Semester II

- Maths II
- Engineering Materials
- Elements of Civil Engineering
- Elements of Mechanical Engineering
- Elements of Electrical Engineering
- Physics
- Workshop Practice

Semester III

- Maths III
- Building, Planning & Drawing
- Mechanics of Fluids I
- Advanced Surveying
- Concrete Technology
- Structural Analysis I

Semester IV

- Numerical Techniques
- Geotechnical Engineering
- Mechanics of Fluids II
- Structural Analysis II
- Environmental Engineering
- Engineering Geology

Semester V

- Concrete Structure I
- Steel Structure I
- Transportation Engineering I
- Water Resource Engineering
- Computer Aided Designing I
- Advanced Geotechnical Engineering

Semester VI

- Concrete Structure II
- Steel Structure II
- Transportation Engineering II
- Estimation, Costing & Valuation
- Environmental Assessment & Methodologies
- Organizational Psychology

Semester VII

- Matrix Method of Structural Analysis
- Pre-stressed Concrete
- Earthquake Engineering
- Advanced Foundation Engineering
- Irrigation and Hydraulic Structures
- Industrial Economics
- Seminar

Semester VIII

- Project Management
- Construction Equipment and Methods
- Computer Aided Designing II
- Management Concept and Practice
- Ground Improvement and Practice



Student Activities

Clubs/Forums & Chapters

Civil Engineering Forum

Inaugurated on 28th January, 2012, The Civil Engineering Forum of Civil Engineering Department, PDPU aims to provide an arena to the students to boost their technical acquaintance & produce themselves a better professional in the community. It aims to give the students the extra edge apart on the academics so as to develop a research temperament. This is an integral part of the Department of Civil Engineering. It provides a platform to students to gain knowledge, explore and to execute their ideas in Civil Engineering. It serves as an umbrella forum for all the student organizations under the department.

Institution of Civil Engineers (ICE-UK) Student Chapter

Department of Civil Engineering has come up as a torch bearer in introducing Institution of Civil Engineers-UK student chapter in India. ICE was founded in 1818 by a small group of idealistic young men. We were granted a royal charter in 1828 where we declared that our aim was to "foster and promote the art and science of civil engineering". The active chapter organizes a series of activities for the civil and non-civil engineering students of PDPU including conferences, workshops, seminars and expert talks.

Indian Green Building Council (IGBC) Chapter

Indian Green Building Council (IGBC) is the apex body in India with a vision to enable a sustainable built environment for all and facilitate India to be one of the global leaders in sustainable built environment by 2025. It houses 1,491 members, 2,111 registered buildings, 362 rated buildings and 1,049 accredited professionals. The IGBC chapter aims to reach out the IGBC Vision at the Regional Levels with agendas to faster penetration & reach, reach out to wider section of stakeholders and involve local agencies & Institutions in the Green building movement.

Rotaract Club

Rotaract Club of PDPU was established in August 2012 with the joint efforts of all the schools at PDPU. Rotaract Club's objective is leadership development & service - in the community, in the workplace, and around the globe. The 1.2 million Rotarians who make up more than 34,000 Rotary clubs in nearly every country in the world share a dedication to the ideal of Service above Self.

Rotaract club of PDPU had organized an event on entrepreneurship in association with Point 10 named "e-Chai insights at PDPU". The event was focused on extracting talents from the budding mind of students and provides them a platform to showcase their skills.



Department Activities

WORKSHOPS

- Emerging Trends in Concrete Waterproofing jointly organized by Apaar Infratech Pvt. Ltd. India and XYPEX Construction Chemical Corporation, Canada.
- Building Integrated Photo Voltaic (BIPV) jointly organized by Department of Civil Engineering, P.D.P.U. and University of Ulster UK.
- Bridge Design, Fabrication and testing jointly organized by ICE (UK) PDPU chapter and Civil Simplified.
- Engineering Applications of Geo-informatics jointly organized by Indian Society of Geomatics Ahmedabad Chapter. and ICE (UK) PDPU chapter.
- Hydrological Data Management in Gujarat: Present State and Trends jointly organized by Department of Civil Engineering, PDPU and State Water Data Center (SWDC) under Hydrology Project-II.
- River Restoring in India jointly organized by Institute of Engineers India (IEI).
- Auto CAD 2D and 3D modeling organized by Department of Civil Engineering



DREAM GREEN

Dream Green Team from Pandit Deendayal Petroleum University participated in the "Green Campus Challenge", organized by Techfest, IIT Bombay from 3rd-5th January, 2013. The vision behind the challenge was to make campuses across India more sustainable and green. The 21 member's team, bagged 3rd position out of 350 teams registered, and also won prize money of 23,000 INR. The team successfully conducted 83 activities in the campus and across the city over a period of 4 months. The activities included things like Calculating Carbon-footprint, Case-study on Rain water harvesting, Energy and Water Audit of campus, Green Architecture, Waste management, Clean and Renewable energy, Study on Climate change, Bio-diversity etc. Team was very well supported by University, Municipal Corporation and Government Agencies to implement practical solutions to the existing problems and thus create a huge impact on the environment and society.



EXPERT TALKS

- Role of Engineers in the Challenge of Global and Climate Change by Ms. Ar Jana Dreikhausen, integral architecture and urban design projects, Germany.
- Railway Engineering by Prof. Everhardt Hohneckr, Head of Railway construction department, Germany.
- Geoinformatics and remote sensing Applications in Engineering by Prakash Mantry Professor University of Adana, Ethiopia.
- Sardar Sarovar Narmada Project by Er. K. S. Srinivas, Director (Civil) of Sardar Sarovar Narmada Nigam Limited.
- Valuation for Real Estate by Kirit P. Budhbhatti, Former Founder Chairman International Plant and Machinery Valuation Conference Committee.
- Urban Transportation System by Sagar Deshmukh from Lea Associates South Asia Pvt. Ltd New Delhi.
- Modeling in Auto CAD by Mr. Dipak Chotani, Consulting Engineer, Structural Designer and owner, De-Design Interiors
- Urban Rehabilitation and Eco Sustainability by Mr. Debashish Basak, Town Planner, Surat Municipal Corporation.
- Lake Redevelopment by Mr. Himanshu Thakker, AUDA.
- Designing Green Buildings in India as per LEED rating system by Mr. Jayesh Heriyani, Managing Director, Stantec Inc. Ahmedabad.
- Speak your mind out by Dr. Nigam Dave (Dean, School of Liberal Studies PDPU).

OTHER EVENTS

- Brahma-The Civil Engineering and Architecture Quiz Competition.
- "Adhayan" paper & poster competition
- Web the builder-online Quiz Competition
- Shastra- debate competition
- Group discussion and case study competition

Research & Development

At the Department of Civil Engineering, research is carried out in the core areas of the discipline as well as contributing to emerging multidisciplinary areas. The research areas include but are not limited to:

1. An Innovative, Cost-Effective Approach for Water Distribution Network Design of Kalol Taluka of Gandhinagar District, Gujarat, India using Remote Sensing & GIS
2. Case Study On Bridges of different types of foundation (well, pile, open-raft foundation) on Mahi, Watrak, Kun River of Gujarat on National Highway NH-59
3. Compressive and flexural strength analysis of concrete using industrial waste as partial replacement (30%) of fine aggregates. Compressive strength is found to increase by 54% and flexural strength by 107%.
4. Design of BIPV system for Institutional and residential building for Gujarat, including techno-economic analysis for BIPV systems and feasibility study
5. Design of energy efficient window for residential buildings which optimizes solar potential generation through windows.
6. Design of sewage treatment plant for urban areas which is powered by solar panels and energy from solid waste generated from urban waste.
7. Design of surface cooling technology for solar panels. This model works on principles of basic fluid mechanics and theoretically is infinite source of cooling for the panel.
8. Development of 1st of its kind online tool for solar generation potential for maximum stations in India. This tool also is an optimization model for BIPV system for buildings across India.
9. Effect of Curing Methods on Efficiency of Curing of Cement Mortar using ASTM Standards.
10. Evaluation and modeling of Micro surfacing mix design incorporating effect of material variation on the test responses
Area of Research: Highway Engineering (Pavement Preventive maintenance techniques) Period: 2nd July 2011 to Till now
11. Experimental Research Work to Evaluate Correlations between CBR, KPBT, UCS with DCPM and SCPM for Sub-grade
12. Experimental study on Retrofitting and Shear Strengthening of the Reinforced Concrete Beams by Fiber Reinforced Polymer (FRP)
13. Geospatial Analysis for site suitability selection for village pond to divert Canal water
14. Planning, Designing, Execution and Development of Port Infrastructure at Dahej-Goga Ro- Ro Ferry Service Port, Gujarat Maritime Board (GMB), Government of Gujarat, Gujarat
15. Real time drinking water quality analysis of Gandhinagar Dist.
16. Site suitability selection for check dams using GIS in Godhara and Shahera Talukas
17. Study of orientation on micro-climate on residential buildings in India
18. Utilization of Fly Ash and Hydrated Lime for Reclamation of Municipal Dumping Ground Area of Research: Solid Waste.



DCE, PDPU Consultancy Service

Industry-oriented learning and research always enhances the level of understanding and applicability of knowledge in practical situations. Department of Civil Engineering at PDPU offers various consultancy services. Various government projects are undertaken by the department wherein students, along with faculty members, get an opportunity to learn and add experience to their credits. The major clients taking advantage of the service are Sardar Sarovar Narmada Nigam Ltd., Irrigation and Water Resource Department of Government of Gujarat. Some of the major undertaken areas are:

Material Testing | Structural Analysis and Design | Geotechnical Investigation | Land Surveying and Mapping | Hydraulics of Open Structures

B.Tech Seminar Final year

Students at DCE conduct seminars broadly in the area of:

- Foundation engineering for infrastructural projects viz. MEGA
- Real-time drinking water quality monitoring
- River restoration works for Gujarat region
- Critical Chain Project management for Infrastructure projects
- Integrated project delivery model for Infrastructure project.
- Ground stabilization and improvisation techniques
- Earthquake mitigation techniques
- Bearing capacity analysis and use of Geosynthetics for highway engineering
- Alternative materials and design for pavements
- Intelligent traffic management systems
- Design of tall structure using various approaches viz. trussed tube, braced frame
- Mix Design of Self Compacting Concrete.

Faculty Profile

Dr. H. B. Raghavendra

Director, School of Technology

Research Interest:

Reinforced earth, Soil structure interaction, Environmental waste management, Ground improvement, Foundations on problematic soils.

Dr. Anupam Kumar Singh

Head of Civil Engineering Department

Research Interest:

Rainfall modeling & climate impact assessment, Urban flooding-storm water and risk assessment

Dr. Debasis Sarkar

Associate Professor

Research Interest:

Project Management, Underground Corridor Construction for Metro rail operations

Dr. Tejas Thaker

Assistant Professor

Research Interest:

Earthquake hazard and mitigation, Ground Improvement and waste management

Dr. Manas K Bhoi

Assistant Professor

Research Interest:

Study of soil structure interaction, Geosynthetics, Numerical analysis of Geotechnical problems

Dr. Trudeep Dave

Assistant Professor

Research Interest:

Soil-structure interaction, Field applications of Geosynthetics.

Dr. Pravin Kodgire

Assistant Professor

Research Interest:

Environmental Engineering, Water quality analysis

Mr. Rajesh S. Gujar

Lecturer

Research Interest:

Infrastructure Planning & Management

Mr. Apurva Dave

Lecturer

Research Interest:

Structural Design & Structural Engineering (Steel & R.C.C)

Prof. Rajinikant Patel

Lecturer

Research Interest:

Project Management, Infrastructure Planning & Engineering

Dr M. B. Joshi

Lecturer

Research Interest:

Irrigation and Hydraulic Structures, Water Resource engineering

Prof. B. D. Sharma

Lecturer

Research Interest:

Elements of Civil Engineering, Project Management

Mr. Ronak Shah

Lecturer

Research Interest:

Structural Design Engineer; Structural Analysis, Design of Structures

Mr. Samir Mistry

Lecturer

Research Interest:

Design of Reinforced Concrete Structures

Mr Akshay Jain

Lecturer

Research Interest:

Building Planning & Design, Advanced Surveying

Prof. Sejal Patel

Lecturer

Research Interest:

Urban and Rural Planning



Lab Facilities

Civil Engineering Department

The DCE has setup a number of laboratories as per the relevant course structure. Laboratories are well equipped to facilitate academic and research activities. Laboratories are being continuously upgraded with new equipment.

The practical classes are well integrated into the curriculum, but the department encourages even more extensive use of these facilities to nurture a research led environment. To strengthen the research work of the M Tech and PhD students who rely extensively on experiments to validate their work.



Applied Mechanics

Top-notch advanced experimental facilities in the state – Bell crank lever, compound wheel & differential axle, apparatus for reaction of forces in beam, apparatus for Centre of gravity, combined plane arch friction slide apparatus.



Concrete Technology

Concrete laboratory which are well equipped for gaining empirical knowledge by performing different experiments – flexure testing machine, concrete mixer machine, LA abrasion testing machine, mechanical sieve shaker, impact testing machine, crushing valve test apparatus, vibrating table



Surveying & GIS

Laboratory has number of instruments which contain basic to advance instruments – Total Station with 5” accuracy, theodolite, auto level with telescopic staff, line ranger, French cross staff, plane table, dumpy level.



Geotechnical Engineering

For the testing of soil behavior and characteristics, the laboratory has unique instruments - Soil hydrometer, permeability apparatus, consolidation apparatus, unconfined compression tester, CBR testing machine, Triaxial test apparatus, SPT equipment, plate bearing test, direct shear test machine



Environmental Engineering

This laboratory is working on areas such as analysis of environmental impact and controlling pollution. To facilitate this practice, the laboratory was upgraded with new equipment– PH meter kit, portable turbidity meter, hand hold TSS meter, UV-visible spectro photometer, COD reactor, BOD incubator, Muffle furnace with thermo static control.



Transportation Engineering

Separate facilities for transportation engineering and pavement engineering Equipment for advanced testing with maximum accuracy - Digital ductility testing machine, standard tar viscometer, ring & ball apparatus, specific gravity bottle apparatus, flash & fire point test apparatus



Fluid and Hydraulics Structure

Fluid mechanics lab deals with the equipment used in testing of hydraulic structures, coefficient of discharge, Reynolds number for a pipe flow, minor losses, friction factor for the pipes - Impact of jet apparatus, metacentric height apparatus, Reynolds apparatus, major & minor losses apparatus, orificemeter, venturimeter, rotameter notch apparatus, forced vortex apparatus.



Computer Simulation

The labs are being continuously used by students for purpose of software application on designing and drafting – AutoCAD for drafting, STAAD.Pro for structure design & analysis, Etab, Project management, quantum GIS, Bentley WaterCAD for cost estimation, WaterCAD-suverCAD & StromeCAD for hydraulics structure design & analysis, OHB projector.

Students Achievements

- Best research models in Student Research Model competition in Transport Infrastructure Congress & Expo (TICE)-2013 organized by MNIT, Jaipur and Ministry of Road Transport & Highway (MORTH), Govt. of India, New Delhi
- Best research paper at 4th National Conference on "EMERGING VISTAS OF TECHNOLOGY IN 21st CENTURY" Organized by Parul Institute of Engineering & Technology, Vadodara
- 1st price in innovative model making competition in Contech 2012, Nirma University.
- Ranked in top 20 among 300 colleges in India in Finite Element Analysis of All tertian Vehicle in BAJA 2013.
- Best paper Award "Designing Self-energy Efficient Buildings in India" at Contech-12 at Nirma University.
- Best Paper Award in 'Ideaz-2013' IIT Roorkee
- Best Poster award in "Concrete Water Proofing" Workshop organized by PDPU in association with XYPEX Construction Chemicals Pvt. Ltd Canada.
- Best Poster in "Engineering applications of GPS and GIS" Workshop organized by Indian Society of Geomatics.
- Best Poster Award in "Hydrological Data Management: Present state and trends" Workshop Jointly organized by PDPU & State Water Data Center (SWDC),
- Best Paper Award in "ADHYAYAN- Oral paper presentation Competition" organized by Civil engineering Forum in FLARE-2013 (PDPU-Techfest)
- 1st prize in Poster Presentation Competition on "Green Buildings" organized by Institute of Civil Engineers (UK) Student chapter PDPU.
- 1st Prize in Technical Poster (on Microsurfacing) Presentation Competition on Engineer's Day- 2012 organized by Department of Science, PDPU



Student Profiles

Civil Engineering | 2014



AAYUSH MITTAL

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Industrial Training : Department of Civil Engineering
PDPU
7th Semester Seminar Topic : Real time drinking water quality
monitoring
Areas of Interest : Transportation Engineering, Water
& Environmental Engineering



ABHINAV RAJ

abhinav.rcv10@sot.pdpu.ac.in

Industrial Training : R.P.S. Construction
7th Semester Seminar Topic : Bearing Capacity Enhancement Of
Sandy Backfill Using Rubber Tyre-
Chips
Areas of Interest : Water & Environmental
Engineering, Geotechnical
Engineering



AKASH SHUKLA

akash.scv10@sot.pdpu.ac.in

Industrial Training : UPRM
7th Semester Seminar Topic : Slope stability using geocell
reinforcement
Areas of Interest : Geotechnical Engineering,
Environmental Engineering



AMAN DOSHI

aman.dcv10@sot.pdpu.ac.in

Industrial Training : Surat Municipal Corporation
7th Semester Seminar Topic : Developing a statistical quality
control based quality monitoring
model for ready mixed concrete
industry
Areas of Interest : Urban Planning, Construction
Project Management



ANANT ASHWARYA

anant.acv10@sot.pdpu.ac.in

Industrial Training : L&T
7th Semester Seminar Topic : Safety Aspects In Transportation
Areas of Interest : Transportation Engineering, Green
Building



ANUJ PARIHAR

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Industrial Training : HCP DPM
7th Semester Seminar Topic : Analysis on rainfall, probable
maximum precipitation, rainfall
area distribution curves for
sabarmati basin
Areas of Interest : Geotechnical Engineering, Design
& Analysis using CAD



ARJUN SHAH

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Industrial Training : HCP DPM
7th Semester Seminar Topic : Creatvie Urbanism Under a Time of Economy Strain
Areas of Interest : Transportation Engineering, Urban Planning



ARTH PATEL

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Industrial Training : L&T
7th Semester Seminar Topic : Treatment of Expansive Soil
Areas of Interest : Construction Project Management, Geotechnical Engineering



CHARCHIT KUMAWAT

charchit.kcv10@sot.pdpu.ac.in

Industrial Training : Road Infrastructure Development Company Of Rajasthan Ltd. (Ridcor)
7th Semester Seminar Topic : Mechanical behaviour of porous concrete
Areas of Interest : Transportation Engineering, Concrete Technology



DARSHAN DAVE

darshan.dcv10@sot.pdpu.ac.in

Industrial Training : Ranjit Buildcon Ltd.
7th Semester Seminar Topic : Possibilites and Potential of River Restoration Work in Gujarat
Areas of Interest : Structural Engineering, Water Resource Engineering



DEEP PATEL

deep.pcv10@sot.pdpu.ac.in

Industrial Training : Tirupati Sarjan Limited
7th Semester Seminar Topic : Design of tension member for various length and loading condition
Areas of Interest : Structural Engineering, Concrete Technology



DEVANG GAJERA

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Industrial Training : L&T
7th Semester Seminar Topic : Critical Chain Project Management for Infrastructure Projects
Areas of Interest : Structural Engineering, Geotechnical Engineering



DHRUNIK PATEL

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Industrial Training : Adani Township & Real Estate Company
7th Semester Seminar Topic : Design of various connection for various loading conditions
Areas of Interest : Construction Project Management, Bridge Design



GAURAV GUPTA

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Industrial Training : L&T
7th Semester Seminar Topic : Intelligent Urban Traffic Management Systems
Areas of Interest : Transportation Engineering, Construction Project Management



GAUTAM DADHICH

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Industrial Training : Kalthia Infra Pvt. Ltd.
7th Semester Seminar Topic : Microsurfacing-Pavement preventive maintainance techniques
Areas of Interest : Geotechnical Engineering, Transportation Engineering



HARDIK JARIWALA

hardik.jcv10@sot.pdpu.ac.in

Industrial Training : Surat Municipal Corporation
7th Semester Seminar Topic : Design of Floating Barrage and Hydraullic Structures
Areas of Interest : Geotechnical Engineering, Construction Project & Risk Management



HARDIK RAVAL

hardik.rcv10@sot.pdpu.ac.in

Industrial Training : Tulsi Infrastruture
7th Semester Seminar Topic : River Restoration Work and Analysis on Carrying Capacity of Sabarmati River
Areas of Interest : Water & Environmental Engineering, Transportation Engineering



HARSHIL KAKADIYA

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Industrial Training : Surat Municipal Corporation
7th Semester Seminar Topic : Design of Waste Water Treatment Plant for PDPU Hostel
Areas of Interest : Structural Engineering, Construction Project Management



JAY PRAKASH SINHA

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Industrial Training : HCP DPM
7th Semester Seminar Topic : Review Of Deep Stabilization Techniques With Case Studies
Areas of Interest : Urban Planning, Construction Project Management



JAY SONI

jay.scv10@sot.pdpu.ac.in

Industrial Training : Adani Township And Infrastructure Pvt. Ltd.
7th Semester Seminar Topic : Green Building Rating
Areas of Interest : Urban Planning, Green Building Design



JIGAR CHANDARIA

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Industrial Training : Integrated Architect And Designers Pvt. Ltd.
7th Semester Seminar Topic : Traffic Economy
Areas of Interest : Transportation Engineering, Construction Project Management



KARTIKEYA AGNIHOTRI

kartikeya.acv10@sot.pdpu.ac.in

Industrial Training : Adani Township & Real Estate Company
7th Semester Seminar Topic : Design Of A Floating Barrage And Other Hydraullic Structures
Areas of Interest : Construction Project Management, Structural Engineering



KAUSHAL HARPLANI

kaushal.hcv10@sot.pdpu.ac.in

Industrial Training : Surat Municipal Corporation
7th Semester Seminar Topic : Green Building
Areas of Interest : Urban Planning, Green Building Design



KISHAN PATEL

kishan.pcv10@sot.pdpu.ac.in

Industrial Training : Cube Constructions
7th Semester Seminar Topic : Design concrete M40 using high percentage of fly ash
Areas of Interest : Transportation Engineering, Concrete Technology



KRUTI PATEL

kruti.pcv10@sot.pdpu.ac.in

Industrial Training : Cube Constructions
7th Semester Seminar Topic : Failure Case Studies of Highway Project
Areas of Interest : Structural Engineering, Transportation Engineering



MAHARSHI PATHAK

maharshi.pathakcv10@sot.pdpu.ac.in

Industrial Training : Department Of Civil Engineering, PDP
7th Semester Seminar Topic : Design of Energy Efficient Building Design
Areas of Interest : Green Building, Energy Efficient Building Design



MOHNISH THAKUR

mohnish.tcv10@sot.pdpu.ac.in

Industrial Training : Gannon & Dunkerley Co. Ltd.
7th Semester Seminar Topic : Integrated Project Delivery Model For Infrastructure Project
Areas of Interest : Construction Project Management, Infrastructure Economic



MOLLURU V N LAKSHMI TULASI

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Industrial Training : Cube Constructions
7th Semester Seminar Topic : Design of a waste water treatment plant for koba village
Areas of Interest : Water & Environmental Engineering, Transportation Engineering



NIRAV SADARIYA

nirav.scv10@sot.pdpu.ac.in

Industrial Training : Backbone Enterprise Ltd.
7th Semester Seminar Topic : Possibilities and Potential of River Restoration Work in Gujarat
Areas of Interest : Transportation Engineering, Water & Environmental Engineering



PARTH LAKHANI

parth.lcv10@sot.pdpu.ac.in

Industrial Training : Surat Municipal Corporation
7th Semester Seminar Topic : Issues and Challenges in Elevated Corridor of Metro Rail Project
Areas of Interest : Transportation Engineering, Urban Planning



PARTH SHAH

parth.scv10@sot.pdpu.ac.in

Industrial Training : Aakar Engineers
7th Semester Seminar Topic : Integrated Project Delivery Model for Infrastructure Projects
Areas of Interest : Urban Planning, Construction Project Management



PUNIT SAGAR

punit.scv10@sot.pdpu.ac.in

Industrial Training : IOCL
7th Semester Seminar Topic : Application Of Geo-synthetics In Civil Engineering
Areas of Interest : Transportation Engineering, Concrete Technology



RAGHAV SHARMA

raghav.scv10@sot.pdpu.ac.in

Industrial Training : Patel Infrastructure Pvt. Ltd.
7th Semester Seminar Topic : Study of compaction of different types of soil using proctor compaction test equipment
Areas of Interest : Geotechnical Engineering, Construction Project Management



RAHUL BISHNOI

rahul.bcv10@sot.pdpu.ac.in

Industrial Training : Department of Civil engineering, PDP
7th Semester Seminar Topic : Real Time Drinking Water Quality Monitoring
Areas of Interest : Water & Environmental Engineering, Transportation Engineering



RAHUL MISHRA

rahul.mcv10@sot.pdpu.ac.in

Industrial Training : Department of Civil engineering, PDP
7th Semester Seminar Topic : Use Of Stone Column And Sand Drains In Ground Improvement
Areas of Interest : Structural Engineering, Water & Environmental Engineering



RAM JOSHI

ram.jcv10@sot.pdpu.ac.in

Industrial Training : Department Of Civil Engineering, PDP
7th Semester Seminar Topic : Design of energy efficient building
Areas of Interest : Energy Efficient Building Design, Water and Environmental Engineering



RAVI GEHLOT

ravi.gcv10@sot.pdpu.ac.in

Industrial Training : Jaipur Metro Rail Corporation
7th Semester Seminar Topic : Soil sampling in metro projects
Areas of Interest : Structural Engineering, Geotechnical Engineering



RAVI PATEL

ravi.pcv10@sot.pdpu.ac.in

Industrial Training : Ranjit Buildcon Ltd.
7th Semester Seminar Topic : Mix design for self-compacting concrete
Areas of Interest : Construction Project Management, Transportation Engineering



RISHAV ROHIT

rishav.rcv10@sot.pdpu.ac.in

Industrial Training : Simplex Infrastructure Pvt. Ltd.
7th Semester Seminar Topic : Ground Improvement In Underground Tunnels And Mining
Areas of Interest : Construction Project Management, Urban Planning



RUSHANG DAVE

rushang.dcv10@sot.pdpu.ac.in

Industrial Training : Jaipur Metro Rail Corporation
7th Semester Seminar Topic : Soil Sampling for Metro Projects
Areas of Interest : Structural Engineering, Geotechnical Engineering



SARANG PANDE

sarang.pcv10@sot.pdpu.ac.in

Industrial Training : Vishwa Infrastructure Pvt. Ltd.
7th Semester Seminar Topic : Confinement Effect Of Geocell Reinforced Soil In Triaxial Testing
Areas of Interest : Transportation Engineering, Urban Planning



SARTHAK BHATT

sarthak.bcv10@sot.pdpu.ac.in

Industrial Training : L&T
7th Semester Seminar Topic : Aspects Of Green Building Design As Per IGBC Code
Areas of Interest : Geotechnical Engineering, Water & Environmental Engineering



SHREYANSH PANDYA

shreyansh.pcv10@sot.pdpu.ac.in

Industrial Training : Shreenathjii Builders
7th Semester Seminar Topic : Review of methodologies for evaluating liquefaction hazards
Areas of Interest : Water & Environmental Engineering, Transportation Engineering



SHRINIWAS SHAHDEO

shriniwas.scv10@sot.pdpu.ac.in

Industrial Training : HCP DPM
7th Semester Seminar Topic : Feasibility Study For Selection Of Suitable Public Private Partnership (PPP) Model Rapid Transit System Project
Areas of Interest : Transportation Engineering, Construction Project Management



SIDDHARTH SINGH

siddharth.singhcv10@sot.pdpu.ac.in

Industrial Training : Ansal Api
7th Semester Seminar Topic : Earthquake mitigation technique
Areas of Interest : Transportation Engineering, Construction Project Management



SONIYA PARKHEE

soniya.pcv10@sot.pdpu.ac.in

Industrial Training : North Western Railways
7th Semester Seminar Topic : Parking Systems
Areas of Interest : Geotechnical Engineering, Transportation Engineering



VIPUL GOYAL

vipul.gcv10@sot.pdpu.ac.in

Industrial Training : Adani Township & Real Estate Company
7th Semester Seminar Topic : Use of EPS light weight fill in highway embankment
Areas of Interest : Transportation Engineering, Urban Planning



VISHWAS NAGI

vishwas.ncv10@sot.pdpu.ac.in

Industrial Training : GIFTCL
7th Semester Seminar Topic : Use Of Waste Material In Pavement
Areas of Interest : Structural Engineering, Transportation Engineering



YASH NAHATA

yash.ncv10@sot.pdpu.ac.in

Industrial Training : GIFTCL
7th Semester Seminar Topic : A Framework for Selection and Development of Appropriate Housing Technology for EWS Housing
Areas of Interest : Transportation Engineering, Professional Practice & Valuation



YATHARTH PURI GOSWAMI

yatharth.gcv10@sot.pdpu.ac.in

Industrial Training : M S Khurana Engineering Ltd.
7th Semester Seminar Topic : Scale Effect On Footing Resting On Reinforced Soil
Areas of Interest : Urban Planning, Construction Project Management

State of the art Infrastructure

Wellness Centre

A nutritious diet and a good workout help students to combat academic stress. School of Petroleum Technology has set up a state-of-the-art wellness centre equipped with cardio & weight training equipment and helps students workout under the expert supervision of a certified trainer.

The wellness centre can look after the needs of more than 50 students per session and is functional throughout the day.

As a part of its wellness initiative, the university also provides an expansive playground for outdoor games, such as football, cricket and practice courts for basketball, volleyball and badminton.

Cafeteria & Food Court

School of Petroleum Technology has ensured that the students enjoy a healthy 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 and personal lives and collectively address the attendant challenges.

Other Facilities

- PDU Campus Store - Pride Forever
- Stationary and General Store
- Medical Facility + 24 hours Ambulance
- Medical Store
- Bank + 24 hours ATM
- Travel Booking Office

Hostel Facility

Our in-campus residential facilities offer furnished hostel rooms on a twin occupancy basis. This is an optional facility offered to B.Tech students. Separate hostels are provided for female students. There are seven fully functional hostel blocks which are Wi-Fi enabled and are well-designed to meet the needs of the students. These include emergency medical facilities, a doctor on call, 24x7 access to computer labs and a well equipped and comfortable lounge to facilitate group activities.

Library

Library and Information Centre is the heart of the school and aims to provide an ideal ambience for both creation & dissemination of knowledge, information, insights & intellect in all its academic programmes. The centre has utilized Information Technology extensively to ensure that resources are accessible from anywhere at any time. The Library holds a collection of printed as well as electronic resources which include books, journals, databases, CDs/DVDs, e-journals, reports, case studies, conference proceedings, training manuals, etc



Career Prospects & Industry Support

Industrial Internship is a major component of the learning process at SOT. At the end of sixth semester, all students are required to undergo industrial internship of 6 weeks with consultancy companies, Research institutions, contractor companies and infrastructure companies, management consultancies. On successful completion of the training, a student is required to make a presentation and submit a written report for evaluation. The formal assessment and feedback of the industry guides are also taken into consideration for overall evaluation of summer projects.

Industrial Internships and Industrial Visits

MECHANICAL

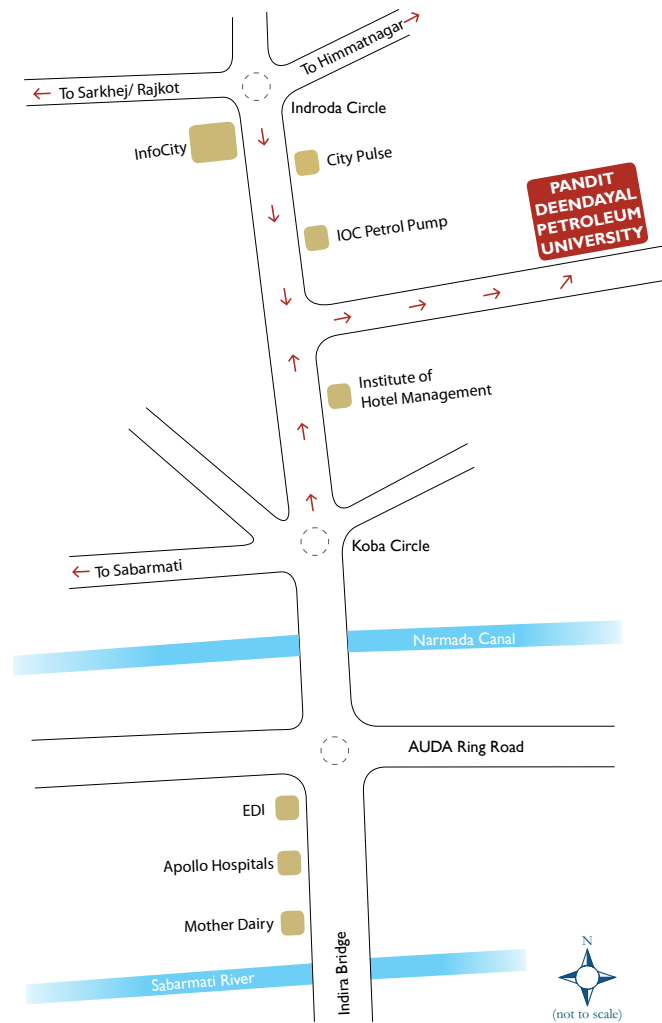
Amul Industries
Amul Dairy
Arham Pumps
Bhavani Industries
Bosch Rexroth
Caparo
Coca Cola
CSIR India
Dresser Rand
Erhardt & Leimer
Essar
GNFC
GSECL
IIFCO
Indian Ordinance Factory
Inspiron
Indian Oil
KHS Machinery
Mahindra Gears & Transmissions
Maruti Suzuki
MINDA
ONGC
Paradip Port
Punj Llyod
Tata Motors

ELECTRICAL

ABB limited
Adani Power Limited
Angel Pumps (P) Ltd.
Bharat Heavy Electricals Limited
Bhaskaracharya Institute of Space Appliactions and Geoinformatics (BISAG)
BSES Rajdhani Power Limited
Crompton Greaves Limited
Deepak Nitrite Limited
Delhi Metro Rail Corporation
Diamomd Power Transformers pvt ltd
Fracold S.P.A., Italy
GAIL (India) Ltd., Vaghodia
Gandhinagar Thermal Power Station
GETCO
Gujarat Narmada Valley Fertilizers and Chemicals Ltd. (GNFC)
Gujarat State Electricity Corporation Limited
Hindustan Aeronautics Limited
Indian Farmers Fertilizers Cooperative Limited
Metro World
Micro Systems
NIFA Electronic Private Limited
Powerlite Electrical
Rajasthan Rajya Vidyut Utpadan Nigam Limited
Ratnagiri Gas & Power (P) Limited
Reliance Industries Limited
Siemens Limited
SKP Transformers

CIVIL

Adani Township and Real Estate Co. Pvt. Ltd.
Ansal Api
Backbone Enterprises Limited
Cube Construction
Delhi Metro Rail Corporation
Dilip Buildcon Ltd.
Essar Projects Ltd.
Exxon Mobil Corporation
Gammon India
Gannon Dunkerley & Co. Ltd.
GIFTCL
HCP Design
Hindalco
Indian Oil Corporation Ltd.
Indian Railway Division, Jodhpur
Infrastructure Leasing & Finance Services (IL&FS)
Integrated Architect and Designers Pvt. Ltd.
Larsen & Toubro ECC
M .V. Omni Project India Limited
M S Khurana Engineering Ltd.
MAPTCL (Mukesh A Patel Technical Consultancy Laboratory)
Municipal Corporation of Greater Mumbai
Patel Infrastructure Pvt. Ltd.
Punj Lloyd
Ranjit Buildcon Limited
RIDCOR Ltd.
Simplex Infrastructure Ltd.
Surat Municipal Corporation
TirupatiSarjan Limited
Uttar Pradesh Rajkiya Nirman Nigam
Vishwa Infrastructures & Services Private Limited



School of Technology Training & Placement Cell

Mr. Phalgun Kumar

Manager - Training & Placement

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Mobile: +91-9924133225

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JOB APPLICATION FORM

(TO BE FILLED BY COMPANIES)

NAME OF THE COMPANY : _____

ADDRESS : _____

CITY : _____ STATE : _____ PIN : _____

TEL. NO. (WITH STD CODE) : _____

FAX : _____ E-MAIL : _____

COMPANY WEBSITE : _____

REQUIREMENTS / CRITERIA :

S. NO	COURSE	TOTAL NO. OF STUDENTS THE COMPANY WISHES TO RECRUIT	PREFERRED INTEREST AREAS	ANY OTHER INFORMATION
1	B.TECH CIVIL ENGINEERING			
2	B.TECH ELECTRICAL ENGINEERING			
2	B.TECH MECHANICAL ENGINEERING			

CAMPUS RECRUITMENT PROCESS :

PRE-PLACEMENT TALK (PPT) WRITTEN TEST GROUP DISCUSSION

PERSONAL INTERVIEW ANY OTHERS

CONTACT PERSON :

NAME : _____

DESIGNATION : _____

TEL. NO. (WITH STD CODE) (O): _____ MOBILE NO. _____

FAX : _____ E-MAIL : _____

SIGNATURE OF COMPANY OFFICIAL



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