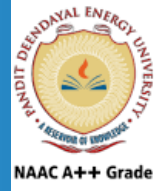




विज्ञान एवं प्रौद्योगिकी विभाग  
DEPARTMENT OF  
**SCIENCE & TECHNOLOGY**

सत्यमेव जयते



NAAC A++ Grade

**PDEU** PANDIT  
DEENDAYAL  
ENERGY  
UNIVERSITY  
GANDHINAGAR, GUJARAT

Formerly Pandit Deendayal Petroleum University (PDPU)

# OUR

# SERVICES

Your Need Our Aim

**Contact:**

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Gandhinagar, Gujarat, India**



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# **List of Laboratory Equipments in Petroleum Engineering**

1. Hot air oven
2. Weighing Balance Digital
3. Digital Conductivity Meter
4. Vacuum Pump
5. Gas Permeameter
6. Liquid Permeameter
7. Electric Stirrer
8. Digital Electronic Voltage Stabilizer
9. Air Compressor
10. Auto Tensiometer by Dataphysics
11. Transformer
12. Digital Multimeter
13. Recombination Cell
14. Electric Heater

# List of Laboratory Equipments in Chemical Engineering

1. Bench top PH meter kit
2. Battery Operated Portable Turbidity meter
3. Battery Operated Portable Dissolved Oxygen meter
4. Portable Hand-Held TSS Meter
5. UV-Visible Spectrophotometer
6. Bench Top Conductivity lab kit
7. COD Reactor
8. BOD Track Apparatus
9. BOD Incubator
10. Electronic Precision Balance
11. Electronic Precision Balance up to 2000 gm Capacity
12. Muffle Furnace with Thermo- Static Control
13. Fine Particulate sampler Envirotech (Dust samplers)
14. Fully Automatic Vertical Autoclave Digital
15. Jar Test Apparatus

# List of Laboratory Equipments in Drilling Fluid and Cementation Lab

1. Marsh Funnel Viscometer, OFITE
2. Fann VG, 6 speed Viscometer Model 35 SA,
3. Emulsion Stability Meter, OFITE
4. Resistivity Meter, OFITE
5. Hamilton Beach Mixer
6. Roller Oven, OFITE
7. Retort 50 ml. Kit with Temp. Controller/165-14-3
8. Digital Viscometer, OFITE
9. Hot Air Oven
10. HBF 400 blender, 2 speed, 1/2 gal SS/152-05-1
11. HTHP Filter press, OFITE
12. Sand bath



# List of Laboratory Equipments in Chemistry Department

1. pH Meter 700, Eutech
2. Laboratory Centrifuge R4C DX , REMI
3. Magnetic Stirrer 2MLH , REMI
4. Ultra Sonicator
5. Conductivity meter , ELICO CM 183
6. Heating Mantle (250, 500, 1000ml)
7. Soxhlet Extraction Unit
8. Electronic Digital Balance, DENVER
9. Double Distillation Unit ,Borosil
10. Gas filtration System ( GC Accessories )
11. Polarimeter , manual
12. Water Distillation, wall mount
13. Conductivity meter , Chemiline

# List of Laboratory Equipments in Physics Department

1. Newton's ring
2. Thermal conductivity experiment
3. Plank's Constant & Inverse Square law
4. Spectroscopy Experiment
5. Glove box
6. Thermal evaporator with glove box
7. I-V Characteristics Setup
8. Transistor CE Characteristics
9. Millikan's Oil Drop Method
10. E / M By Thomson Method

# List of Laboratory Equipments in Mechanical Engineering

1. CAD CAM software turning and milling CNC train simulation software
2. Single Stage Air Compressor
3. Heat Pump Demonstrator (Water to Water)
4. Solar distillation apparatus
5. Solar water heater system (EVC)
6. MMA/TIG/MIG welding machine, model no.-iflex 350
7. Shaping machine
8. Universal Testing Machine Capacity: 1000 kN, Model: UTV 100E
9. Universal milling machine complete with all standard accessories
10. Medium duty all geared lath machine

# List of Laboratory Equipments in Civil Engineering

1. C.B.R. Testing Machine
2. Triaxial Test Apparatus
3. Laboratory Vane Shear Apparatus(Motorised)
4. Soil Cone Penetrometer (Digital Type)
5. Swell Test Apparatus
6. Consolidation Test Apparatus
7. Direct Shear Apparatus
8. Unconfined Compression Tester
9. Extractor Frame (Hydraulic type)
10. Proctor Needle

# List of Laboratory Equipments in Electrical Engineering

1. Digital Electronics Development System
2. 10MHz Function Generator
3. Digital Storage Oscilloscope- 100MHz
4. 30MHz Two Channel Four Trace Microcontroller Based Oscilloscope
5. Mixed Signal Oscilloscope
6. 2 Isolated Channel 100 MHz Battery operated Hand held DSO
7. Swinburne test on dc machine trainer
8. Sensor and Instrumentation System
9. Susceptibility of Paramagnetic materials by quick Method
10. Matlab Package

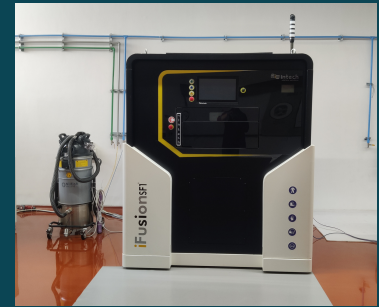
# Equipments of Mechanical Engineering



FATIGUE TESTING MACHINE



XTURN CNC STANT BED LATH WITH 8 STATION INDEXING TOOL POST AND FANUC EMULATED CONTROL



3D METAL PRINTING MACHINE



ROCKWELL CUM BRINELL HARDNESS TESTING MACHINE



SPARK EROSION MACHINE



UNIVERSAL MILLING MACHINE



XL MILL CNC BENCH MILLING MACHINE NON ATC



SHAPING MACHINE



COMPUTERIZED COMPRESSION TESTING MACHINE.

# Equipments of Petroleum Engineering



FORMATION  
DAMAGE  
SYSTEM



FRACTURE CONDUCTIVITY  
SYSTEM



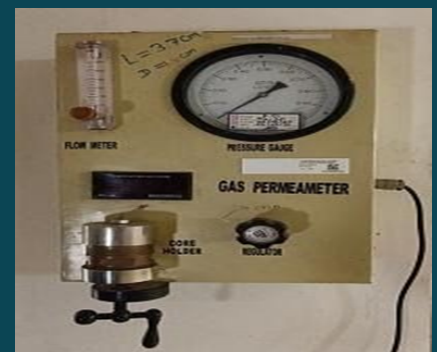
RECOMBINATION CELL



ELECTRIC HEATER



LIQUID PERMEAMETER



GAS PERMEAMETER



DIGITAL CONDUCTIVITY  
METER



VACUUM PUMP



DIGITAL ELECTRONIC  
VOLTAGE STABILIZER



# Equipments of Chemistry Department



CONDUCTIVITY METER



MUFFLE  
FURNACE



GAS CHROMATOGRAPH



POLARIMETER MANUAL



DIGITAL POLARIMETER



MELTING RANGE  
APPARATUS



IR SPECTROMETER



GAS FILTRATIONSYSTEM



ULTRA SONICATOR



# Equipments of Civil Engineering



UV-VISIBLE  
SPECTROPHOTOMETER



DIGITAL PLAN  
METER



TOTAL STATION WITH STAND, PRISM, OBJECT  
PLATE, TARGET ROD SET



BOD INCUBATOR



FINE PARTICULATE SAMPLER  
ENVIROTECH



MUFFLE FURNACE WITH  
THERMO- STATIC CONTROL

# Equipments of Electrical Engineering



HIGH VOLTAGE MOTOR CONTROL  
AND PFC DEVELOPER'S KIT



3 MHz FUNCTION  
GENERATOR



EVALUATION BOARD, ALONG  
WITH ADP PPI ADAPTER



MIXED  
SIGNAL OSCILLOSCOPE



TWO CHANNEL FOUR  
TRACE MICROCONTROLLER  
BASED OSCILLOSCOPE



10 MHz FUNCTION  
GENERATOR



MULTI OUTPUT VARIABLE  
DC REGULATED  
POWERSUPPLY



AC / DC / IMPULSE TEST SET



DIGITAL STORAGE  
OSCILLOSCOPE

# Equipments of Physics Department



NEWTON'S RING



THERMAL CONDUCTIVITY  
EXPERIMENT



PLANK'S CONSTANT &  
INVERSE SQUARE LAW KIT



SPECTROSCOPY  
EXPERIMENT KIT



GLOVE BOX



THERMAL EVAPORATOR  
WITH GLOVE BOX



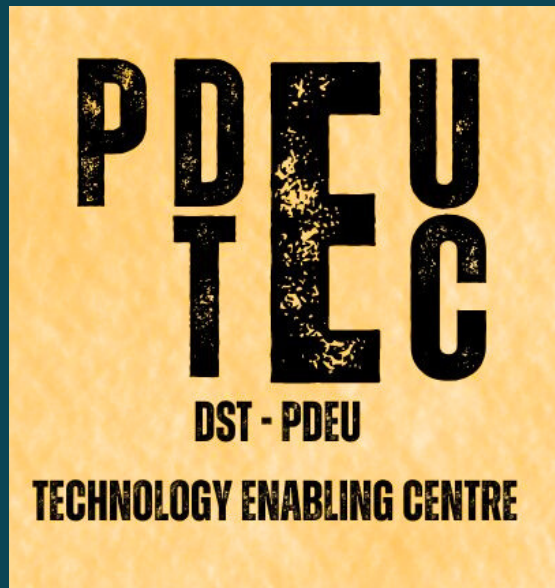
E / M BY THOMSON  
METHOD



I-V CHARACTERISTICS  
SETUP



TRANSISTOR CE  
CHARACTERISTICS



**Searching for Technology deployment,  
field trials, commercialisation....**

## **Contact**

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