

PANDIT DEENDAYAL PETROLEUM UNIVERSITY
SCHOOL OF TECHNOLOGY
B.Tech. Civil Engineering
COURSE STRUCTURE

Semester – I

- Mathematics - I
- Engineering Graphics
- Applied Mechanics
- Chemistry
- Communication Skill
- Environmental studies
- Computer Programming

Semester – II

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

Semester – III

- Mathematics - III
- Building planning & Drg
- Mechanics of Fluids – I
- Advance 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 Resources Engineering
- Computer Aided Design-I

- Advanced Geotechnical Engineering

Semester – VI

- Concrete Structure-I
- Steel Structure – II
- Transportation Engineering-II
- Estimation, Costing & Valuation
- Environmental Assessment & Methodologies
- Elective Course

Semester – VII

- Matrix Methods of Structural Analysis
- Irrigation & Hydraulic Structures
- Prestressed Concrete Structures
- Department Electives - I
- Department Electives - II
- Industrial Economics
- Seminar

Semester – VIII

- Major Projects

- Construction Contracts & Economics
- Construction Equipment & Methods
- Computer Aided Design-II
- Department elective - III
- Management Concept & Practice

PANDIT DEENDAYAL PETROLEUM UNIVERSITY
SCHOOL OF TECHNOLOGY
B.Tech Mechanical Engineering
COURSE STRUCTURE

Semester – I

- Mathematics - I
- Engineering Graphics
- Applied Mechanics
- Chemistry
- Communication Skill
- Environmental studies
- Computer Programming

Semester – II

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

Semester – III

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

Semester – IV

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

Semester – V

- Manufacturing Processes-II
- Production and Operation Management
- Power Plant Engineering
- Design of Mechanical Systems
- Heat and Mass Transformation
- Refrigeration & Air – Conditioning

Semester – VI

- Dynamics of Machines
- Non Conventional Energy Sources
- Control Systems
- Industrial Engineering
- Production Technology
- Elective

Semester – VII

- Computer Aided Design
- Automobile Engineering
- Department Elective - I
- Department Elective - II
- Optimization
- Industrial Economics
- Seminar

Semester – VIII

- Major project
- Robotics
- Thermal Engineering
- Computer Aided Manufacturing
- Department Elective - III
- Management Concepts & Practices

PANDIT DEENDAYAL PETROLEUM UNIVERSITY
SCHOOL OF TECHNOLOGY
B.Tech Electrical Engineering
COURSE STRUCTURE

Semester – I

- Mathematics - I
- Engineering Graphics
- Applied Mechanics
- Chemistry
- Communication Skill
- Environmental studies
- Computer Programming

Semester – II

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

Semester – III

- Mathematics - III
- Network Theory
- Electronic Device & Circuit
- Electro- Mechanical Energy Conversion-I
- Electrical & Electronics Engineering Materials
- Elect. Measurement & Measuring Instruments
- Network Theory

Semester – IV

- Numerical Techniques
- Analog & Digital Electronics
- Control Theory
- Communication Engineering
- Power System - I

- Modeling and Simulation

Semester – V

- Electromagnetic
- Microprocessors and Controllers
- Electro- Mechanical Energy Conversion-II
- Power Electronics
- Design Practice

- Energy Engineering

Semester – VI

- HVDC Transmission FACTS
- High Voltage Engineering
- Power System - II

- Instrumentation and Control
- Testing & Commissioning of Elect. M/C
- Elective

Semester – VII

- Switchgear & Protection
- CAD of Elect M/C
- Distribution System Planning & Automation
- Department Elective - I

- Department Elective - II
- Industrial Economic

- Seminar

Semester – VIII

- Major project
- Electrical Drives
- Power system Dynamics and control
- Energy Efficiency & Conservation
- Department Elective - III
- Management Concepts and Practice

**PANDIT DEENDAYAL PETROLEUM UNIVERSITY
SCHOOL OF TECHNOLOGY
B.Tech. Industrial Engineering
COURSE STRUCTURE**

Semester – I

- Mathematics - I
- Engineering Graphics
- Applied Mechanics
- Chemistry
- Communication Skill
- Environmental studies
- Computer Programming

Semester – II

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

**PANDIT DEENDAYAL PETROLEUM UNIVERSITY
SCHOOL OF TECHNOLOGY
B.Tech. Chemical Engineering
COURSE STRUCTURE**

Semester – I

- Mathematics - I
- Engineering Graphics
- Applied Mechanics
- Chemistry
- Communication Skill
- Environmental studies
- Computer Programming

Semester – II

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