

Syllabus for Diploma Trainees (Mechanical)

Classification of Topics

Part-1: (Discipline Related) (70 Questions/70 Marks)

1.	Mechanics
2.	Theory of Machine
3.	Strength of Materials
4.	Mechanical Measuring Instruments
5.	Pneumatics & Hydraulics
6.	Production Design
7.	Engineering Drawing & Design/Design Calculation
8.	Manufacturing Processes(Drilling, Milling, Boring)/ Manufacturing Technology
9.	Manufacturing Processes/ Heat & Surface Treatment, Heat & Mass Transfer
10.	Metrology and Measurements/Tolerance Limits,Fits
11.	Thermal Engineering/ Power Plant Engineering

Part-2: (Aptitude Test) (50 Questions/50 Marks)

1.	General English
2.	Reasoning
3.	Quantitative aptitude (Arithmetic)

Syllabus for Diploma Trainees (Electrical)

Classification of Topics

Part-1: (Discipline Related) (70 Questions/70 Marks)

1.	Electrical Basics
2.	Electrical Engineering Materials
3.	DC Machine, AC Machine & Transformer
4.	Analog Circuits/ Electronics
5.	Electrical Measurements & Measuring Instruments
6.	Control System
7.	Digital Electronics
8.	Generation, Transmission & distribution of Electrical Power
9.	Circuit Theory
10.	Network theory
11.	Microprocessor
12.	Power Electronics & Drives

Part-2: (Aptitude Test) (50 Questions/50 Marks)

1.	General English
2.	Reasoning
3.	Quantitative aptitude (Arithmetic)

Syllabus for Diploma Trainees (C & I)

Classification of Topics

Part-1: (Discipline Related) (70 Questions/70 Marks)

1.	Basic Electronics/ Power Electronics
2.	Analog Electronics
3.	Measurement & calibration/ Electronics Measurement & Instrumentation
4.	Circuit Theory/ Digital Electronics
5.	Open/Closed/Cascade loop control
6.	PID controlling & tuning
7.	Pneumatic control
8.	Basic Data Acquisition Systems
9.	PLC/DCS/SCADA
10.	Networking/ computer networks
11.	Field instrumentation system
12.	Control valves and on/off valves
13.	Cabling
14.	Power Electronics & Drives
15.	Sensors & Transducers

Part-2: (Aptitude Test) (50 Questions/50 Marks)

1.	General English
2.	Reasoning
3.	Quantitative aptitude (Arithmetic)

Syllabus for Diploma Trainees (Civil)

Classification of Topics

Part-1: (Discipline Related) (70 Questions/70 Marks)

1.	Concrete/ construction Technology
2.	Fluid Mechanics
3.	Soil Mechanics
4.	Strength of Materials
5.	Engineering Mechanics
6.	Civil Engineering Materials
7.	Environmental Engineering
8.	Transportation Engineering
9.	Structural Engineering/RCC design
10.	Structural Engineering/Steel/ Reinforced Cement Concrete
11.	Survey
12.	Estimating

Part-2: (Aptitude Test) (50 Questions/50 Marks)

1.	General English
2.	Reasoning
3.	Quantitative aptitude (Arithmetic)