INDIRA TECHNICAL EDUCATION SOCIETY, NASHIK

DIPLOMA PIPING ENGINEERING SERVICES (DPES)

THEORY PAPER I :	Theory syllabus for this Diploma Paper I is same as
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DIPLOMA MECHANICAL ENGINEERING SERVICES 100 Marks

DMES - PAPER - I / FITTER

Refer this syllabus booklet Page No. _____

THEORY PAPER II: Theory syllabus for this Diploma Paper II is same as

MECHANICAL DRAUGHTSMAN PAPER - II 100 Marks

Refer this syllabus booklet Page No. _____

THEORY PAPER III: Theory syllabus for this Diploma Paper III is same as

PIPING DRAFTING & DESIGNING PAPER - I 100 Marks

Refer this syllabus booklet Page No. _____

THEORY PAPER IV: Drawing Paper syllabus for this Diploma Paper IV is same as

PIPING DRAFTING & DESIGNING PAPER - II

100 Marks

Refer this syllabus booklet Page No. _____

THEORY PAPER V: Special Theory Paper of 2 Hours is Printed below. 50 Marks

Sessional Drawing marks (Internal) 50 Marks

(Total : 500 Marks)

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(DPES - PAPER - V)

THEORY SYLLABUS

ELEMENTS OF PIPING ENGINEERING (50 marks)

- 1. <u>PIPING FABRICATION</u>: Workshop drawings, codes and standard, Piping fabrication, Welded joints in pipe lines, Welder's qualification, Preparation to be made by a welder, Welding processes used in piping fabrication (Gas Welding, Manual Arc Welding, Metal Arc inert gas Welding) Tungsten arc, inert gas welding, Preparation of pipe edges, Welding electrodes, Heat treatment of weld joints, Radiographic test, Ultrasonic test, Dye penetrant test, Hydraulic pressure test.
- 2. PLANT MAINTENANCE: Objective of plant maintenance, Importance of plant maintenance, types of maintenance, Pert & CPM Techniques, Preparing equipment for maintenance, sampling and testing for entry, vessel entry, Welding and cutting, Principal objects or purpose of lubrication, types of lubrication.
- 3. **MAINTENANCE OF CENTRIFUGAL PUMPS**: Starting, locating, causes for faulty operation, belt drive, bearings, wearing rings, shaft sleeves, packing, mechanical seal, pump alignment.
- 4. **MAINTENANCE OF VALVE**: Gate valve, Non return valve / check valves, Ball valves, Diaphragm valve, butterfly valves.
- 5. **MAINTENANCE OF HEAT EXCHANGER**: Tube cleaning, attending to tube leak, tube sheet leak.
- 6. MAINTENANCE OF RECIPROCATING AIR COMPRESSORS: Location, Foundation, Air suction filter, lubrication, Piston rings, valves, packing, intercoolers, coolers after coolers.
- 7. **PIPING MAINTENANCE**: Corrosion, flanges, gaskets, leaks, pipe insulation, materials, pipe identification, relief devices, plastic piping, colour codes for pipe lines.

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