INDIRA TECHNICAL EDUCATION SOCIETY, NASHIK

ADVANCE DIPLOMA MECHANICAL ENGINEERING SERVICES (ADMES)

THEORY PAPER I: Syllabus for this paper is same as Certificate Course in

FITTER [F] 100 Marks

Refer this syllabus booklet Page No.

THEORY PAPER II: Syllabus for this paper is same as Certificate Course in

DIPLOMA MECHANICAL ENGG. SERVICES [DMES - II] 100 Marks

Refer this syllabus booklet Page No. _____

THEORY PAPER III: Syllabus for this paper is same as Certificate Course in

MECHANICAL DRAUGHTSMAN [MD – II] 100 Marks

Refer this syllabus booklet Page No.

THEORY PAPER IV: Syllabus for this paper is same as Certificate Course in

DIPLOMA MECHANICAL ENGG. SERVICES [DMES - IV] 100 Marks

Refer this syllabus booklet Page No. _____

THEORY PAPER V: Theory syllabus for this Diploma Paper V is

100 Marks

Printed below.

PRACTICAL: Practical syllabus for this is same as [DMES]

100 Marks 50 Marks

Sessional Drawing marks (Internal)
Sessional Job work (Internal)

50 Marks Total (700 Marks)

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(ADMES - PAPER - V)

THEORY SYLLABUS

- 1. **MECHANICAL WORKING OF METALS:** Hot working, hot rolling, tubing, drawing, hot spinning, cold working, cold rolling, bending, spinning, sizing, coining and hobbing.
- 2. **SMITHING AND FORGING:** Forging materials, temperature, hand tolls appliances, operations, examples, processes, effects, defects of forging, advantages and limitations, Soldering, brazing, welding joints.
- 3. **PATTERN MAKING AND FOUNDRY**: Pattern materials, types, allowances, methods of construction of patterns, foundy tools & equipments, types of moulding, moulding processes, casting defects.
- 4. **POWDER METALLURGY**: Introduction, sintering, fusion of metal powders, products of powder metallurgy, advantage, disadvantage and limitations.
- 5. **PLASTICS AND THEIR PROCESSING**: Types, materials, processing moulding, casting and machining of plastics.

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- 6. **TRANSMISSION OF POWER AND MOTION:** Methods of drive, elements, belt drive, rope drive, pulleys, gear drive, clutches, friction drive, gear and its types.
- 7. INTRODUCTION TO HYDRAULICS AND PNEUAMATICS.
- 8. **NON TRADITIONAL (CONVENTIONAL) MACHINING**: AJM, USM, CHM, ECM, LBM, IBM, PAM, [Abrasive Jet Machining, Ultra Sonic Machinery, Chemical Machining, Electro Chemical Machining, Laser Beam Machining, Ion Beam Machining, Plasma Arc Machining].
- 9. **CAD, CAM & CIM**: Computer Aided Design, Computer Aided Manufacturing & Computer Integrated Manufacturing.

NOTE: Rest all ADMES papers are same as DMES paper I, II, III & IV. PAPER PATTERN

Q. 1	OBJECTIVE QUESTION (ALL TOPICS)	20 MARKS
Q. 2, 3, 4	TOPIC NO. 1 AND 2, 3	48 MARKS
Q. 5	TOPIC NO. 4 AND 5	16 MARKS
Q. 6	TOPIC NO. 6 AND 7	16 MARKS
Q. 7	TOPIC NO. 8	16 MARKS
Q. 8	TOPIC NO. 6, 7 AND 9	16 MARKS

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