

**INDIRA TECHNICAL INSTITUTE EDUCATION SOCIETY
NASHIK
ARCHITECTURE DRAUGHTSMAN
(AD)**

THEORY PAPER I :	Theory syllabus for this AD Paper I is same as CIVIL DRAUGHTSMAN (CD – I) Refer this syllabus booklet Page No. _____	100 Marks
THEORY PAPER II :	Drawing paper syllabus for this AD Paper II is same as CIVIL DRAUGHTSMAN (CD – II) Refer this syllabus booklet Page No. _____	100 Marks
SESSIONAL MARKS :	(Internal)	50 Marks
THEORY PAPER III :	Theory Syllabus for this paper is printed below Refer this syllabus booklet Page No. _____	100 Marks
THEORY PAPER IV :	Drawing Syllabus for this paper is printed below Refer this syllabus booklet Page No. _____	100 Marks
SESSIONAL MARKS :	(Internal)	50 Marks

Total : (500 marks)



**INDIRA TECHNICAL INSTITUTE EDUCATION SOCIETY
NASHIK**

**CERTIFICATE COURSE
ARCHITECTURAL DRAUGHTSMAN [AD]**

EXAM SCHEME: THEORY PAPER 100 MARKS – 3 HRS.

[AD – III / DCES – III / ADCES – III]

THEORY SYLLABUS

- 1. Field Activities**
 - ❖ Agencies Associated in Building industry.
 - ❖ Plan Sanctioning Authorities.
 - ❖ Building rules and bye – laws, F.S.I., carpet area, Built – up area calculations.
 - ❖ Procedure of submitting plans for approval to plan sanctioning authority.
 - ❖ Planning of building.

- 2. R.C.C.**
 - ❖ Preparation of Concrete.
 - ❖ Mixing and Planning concrete.
 - ❖ Cutting and bending of bar, length of hooks and bends laps kept, minimum cover space etc., Bar bending schedule.

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3. **Domestic Services.**
 - ❖ Septic Tank, Soak Pit.
 - ❖ Sewers and drains.
 - ❖ Domestic water supply and installation of water supply system of building.
4. **Surveying and Leveling.**
 - ❖ Brief idea of surveying and classification of Survey.
 - ❖ Chain Surveying, Instruments in chain Survey, field book.
 - ❖ Plane Table Surveying, instrument used, Advantages and Disadvantages of plane tabling, Methods of Plane Tabling.
 - ❖ Leveling, Terms used in leveling.
 - ❖ Different types of Levels, Dumpy level and leveling staff.
 - ❖ Contouring, Characteristics of contours, uses of contours.
5. **Estimations**
 - ❖ Define Estimate, Types of Estimates.
 - ❖ Methods of taking out quantities.
 - ❖ Units of Measurements and Payments of Common items in Civil Engineering works.
6. **Finishes**
 - ❖ Surface Finishing, painting, varnishing, Polishing, Distempering, Cementing, Wall Papering, Plastering, Glazing work, white and colour washing.



ARCHITECTURAL DRAUGHTSMAN [AD- IV]

EXAM SCHEME: DRAWING PAPER 100 MARKS – 4 HRS.

DRAWING PAPER SYLLABUS

CIVIL / ARCHITECTURAL DRAWING

1. Introduction to Engineering Drawing and Setting out of Building.
2. Types of doors and windows.
3. Perspective views – Definition, Elements, Station point, Picture plane, Methods of perspective projections.
4. Isometric Projection.
5. Sections of R.C.C. Components.
6. Airport Building drawing.
7. Multistorey Building Drawing.
8. Different types of stairs.

CALCULATION OF MATERIALS AND RATE ANALYSIS OF :

- ❖ Brick masonry in cement mortar (1:3 to 1:6) – unit 10 cu.m.
- ❖ Stone masonry in cement mortar (1:3 to 1:6) – unit 10 cu.m.
- ❖ P.C.C. Bed Concrete (1:1:2 to 1:4:8) – unit 10 cu.m.
- ❖ Plastering work 12 mm thick in cement mortar (1:1 to 1:6) – unit 100 sq.m.
- ❖ R.C.C. Slab (1:2:4), with steel (0.80 % to 1.00 %) – unit 10 cu.m.

DRAWING SHEETS

SR. NO.	TOPICS	MIN. NO. OF SHEETS
1	Proposed Bungalow	1
2	Typical Residential Building (G + 3) or)G = 4)	1
3	Types of Stairs	1
4	Theatre Building or Bank Building	1
5	R.C.C. Drawing of Building Components – Column footing, R.C.C. Slab, Lintel and Chajja	2
6	Plain Table Survey sheet (Optional G.T.)	1
7	One Building drawing in Inking	1
8	Freehand Lettering (Single / Double stroke)	1
9	To develop a line plan	2

SR. NO.	TOPICS	MIN. NO. OF SHEETS
10	Rendering Sketching	2
11	Plan Reduction and Enlargement	1
12	Center line plan or Foundation plan	2
13	Municipal Working Drawing	2
14	Colouring the Ammonia Print	1
15	Perspective views – One point and Two points, Simple object and Perspective of Building	4
16	Isometric Projection – Simple Objects	2
	Total	25

NOTE : Minimum 20 sheets to be completed.

GUIDELINE FOR PAPER SETTER :

1. Q. 1 – To develop a line plan and to draw plan and elevation only – 50 marks.
2. Q.2 to Q.3 – On Drawing Work Sheets strictly – 50 marks.
3. The Q. Paper should be in such a way that, a S.S.C. Student can solve in 3 hours.

