

# Techno India NJR Institute of Technology



## Building Drawing Lab (4CE4-23)

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For Techno India NJR Institute of Technology  
पंकज पौरवाल  
Dr. Pankaj Kumar Perwal  
(Principal)



# RAJASTHAN TECHNICAL UNIVERSITY, KOTA

## SYLLABUS

II Year-IV Semester: B.Tech. (Civil Engineering)

### 4CE4-23: BUILDING DRAWING

**Credit: 1.5**

**Max. Marks: 75 (IA:45, ETE: 30)**

**OL+OT+3P**

1- To plan and draw working drawing of a Residential building with following detail.

- (a) Site plan
- (b) Foundation plan
- (c) Plan
- (d) Two sectional elevations
- (e) Front elevation
- (f) Furniture plan
- (g) Water supply and sanitary plan
- (h) Electric fitting plan

2- To design and draw a Primary Health Center

3- To design and draw a Primary School

4- To design and draw a Rest House

5- To design and draw a Post Office

6- To design and draw a Bank

7- To design and draw a College Library

8- To design and draw a Cinema Theatre

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## Course Overview:

Drawing is the language of Engineers and Architects. Building Planning and Drawing is the foundation subject for Civil Engineering students. reader is empowered with an in-depth knowledge in the subject of Building Planning and Drawing. The entire subject is canvassed in the chapters like: Fundamentals of Building Drawing; Fundamentals of Buildings; Site Selection for Residential Buildings; Climate and Its Influence on Building Planning; Orientation of Buildings; Principles of Planning Of Buildings; Building Bye-Laws; Planning of Residential Buildings; Planning of Public Buildings; Different Methods of Construction; Prefabricated Construction; Economical Measures in Building Construction; Green Buildings; Anthropometric Studies; Intelligent Buildings; Construction Management Techniques; Basic Concepts of the Building Elements; Nomenclature of Building Planning and Construction; Standard Guidelines for Building Drawing; Guidelines for Planning and Drawing of Residential Building; Drafting Materials and their Utilization; Conventional Signs and B.I.S. Code Colours; A Few Facts of the Vaastu Sastra; Perspective Drawings; Computer Aided Building Drawings; Typical Building Drawings; Question Bank. The Appendix gives University Examination Questions

## Course Outcomes:

CO.NO.	Cognitive Level	Course Outcome
1	Synthesis	Learner can sketch, plan and do drawing of residential building with details of site plan, foundation plan, furniture plan, water supply and sanitary plan
2	Analysis	Learner can sketch, plan and do drawing of institutional building with details of site plan, foundation plan, furniture plan
3	Application	Learner can sketch and do the drawing of commercial building with details of site plan, foundation plan, furniture plan
4	Synthesis	Draw the details of parts of buildings.
5	Application	State the scope and provisions for building components and services.

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## Prerequisites:

1. Fundamentals Knowledge of Different types of Civil Engineering Drawings.

## Course Outcome Mapping with Program Outcome:

Course Outcome	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PSO 1	PSO 2	PSO 3
CO249.1	3	2	2	2	2	2	2	1	2	1	1	1	2	2	2
CO249.2	2	2	2	2	1	2	2	1	2	1	2	1	2	2	2
CO249.3	3	2	2	2	2	2	2	1	2	1	1	1	2	2	2
CO249.4	2	2	1	2	2	2	3	1	2	1	1	2	3	2	2
CO249.5	2	1	1	1	2	2	1	1	2	1	1	2	3	2	2
CO249 (AVG)	2.4	1.8	1.6	1.8	1.8	2	2	1	2	1	1.2	1.4	2.4	2	2

## Course Coverage Module Wise:

Lab No.	Experiments List According to RTU Syllabus
1	Drawing of walls a. Brick and Stone masonry
2	Cross section of external wall from foundation to parapet
3	Partition wall, cavity wall and
4	Pointing, Arches, Lintels and Floors
5	Doors and Windows
6	Doors and Windows

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