

23S08351- BUILDING PLANNING AND DRAWING LAB

Course Code	23S08351	Year	II	Semester	I
Course Category	Skill Enhancement Course	Branch	CIVIL	Course Type	Practical
Credits	2	L-T-P	0-1-2	Prerequisites	Nil
Continuous Internal Evaluation	30	Semester End Evaluation	70	Total Marks	100

Course Objectives:

By the end of this course student will be able to

1	Initiating the student to different building bye-laws and regulations.
2	Imparting the planning aspects of residential buildings and public buildings.
3	Giving training exercises on various signs and bonds.
4	Giving training exercises on different building units.
5	Imparting the skills and methods of planning of various buildings.

Course Outcomes:

Upon the successful completion of this course, the students will able to

CO1	Plan various buildings as per the building by-laws.
CO2	Distinguish the relation between the plan, elevation and cross section and identify the form and functions among the buildings.
CO3	Draw signs and bonds
CO4	Draw different building units
CO5	Learn the skills of drawing building elements and plan the buildings as per requirements.

Course Articulation Matrix:

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
CO1	1	1	2	-	-	3	3	2	-	2	2	2	3	-	2
CO2	1	1	2	-	-	3	2	-	-	2	1	1	-	-	-
CO3	1	1	2	-	-	3	3	2	-	2	2	2	3	1	1
CO4	1	1	2	-	-	3	3	2	-	2	2	2	3	1	1
CO5	1	1	2	-	-	3	3	2	-	2	2	2	3	1	1

Syllabus	
1	Detailing & Drawing of Sign Conventions.
2	Detailing & Drawing of English Bond.
3	Detailing & Drawing of Flemish Bond.
4	Detailing & Drawing of Doors.
5	Detailing & Drawing of Windows.
6	Detailing & Drawing of Ventilators & Roofs.
7	Drawing of Line Diagram of Residential Buildings by using Building Bye- Laws.
8	Drawing of Plan, Elevation & Section from line diagram for a single Storey Building.
9	Drawing of Plan, Elevation & Section for Hospital Building.
10	Drawing of Plan, Elevation & Section for Industrial Building.

Learning Resources	
Text Books	<ol style="list-style-type: none"> 1. Planning, designing and Scheduling, Gurcharan Singh and Jagdish Singh 2. Building planning and drawing by M. Chakraborti. 3. Building drawing, M G Shah, C M Kale and S Y Patki, Tata McGraw Hill, New Delhi.
Reference Books	<ol style="list-style-type: none"> 1. National Building Code 2016 (Volume- I & II). 2. Principles of Building Drawing, M G Shah and C M Kale, Trinity Publications, New Delhi. 3. Civil Engineering drawing and House planning, B. P. Verma, Khanna publishers, New Delhi. 4. Civil Engineering Building practice, Suraj Singh: CBS Publications, New Delhi, and Chennai 5. Building Materials and Construction, G. C Saha and Joy Gopal Jana, McGrawHill Education (P)India Ltd. New Delhi.