

GANPAT UNIVERSITY									
FACULTY OF ENGINEERING & TECHNOLOGY									
Programme	Bachelor of Technology				Branch/Spec.	Civil Engineering			
Semester	III				Version	2.0.0.1			
Effective from Academic Year	2026-27				Effective for the Batch admitted in	July 2025			
Course Code	2CI3107		Course Name		Building & Town Planning				
Teaching Scheme					Examination Scheme (Marks)				
(Per week)	Lecture (DT)		Practical (Lab.)		Total		CE	SEE	Total
	L	TU	P	TW					
Credit	03	00	01	00	04	Theory	40	60	100
Hours	03	00	02	00	05	Practical	30	20	50
Pre-requisites									

Course Outcomes									
On successful completion of the course, the students will be able to:									
CO1	Apply the principles of building planning and relevant building by-laws, standards and regulatory provisions for effective building design.								
CO2	Prepare, interpret, and analyse building drawings and perspective views								
CO3	Explain the concepts, historical evolution, legislative framework, and administrative structure of town and urban planning in India								
CO4	Analyse urban growth patterns, town structure, urban form, and results of civic surveys to classify towns and assess urban development issues.								
CO5	Apply principles of urban planning, land use zoning, neighbourhood planning, development plans, and town planning schemes for sustainable planning of residential, commercial, and industrial areas								
Theory Syllabus									
Unit	Content								Hrs.
1	Principles and Planning Introduction to buildings, detailed study of principles of building planning, Orientation of building, Principles of architecture composition, Fundamentals of Building Information Modelling (BIM).								5
2	Planning Laws Building by-laws, Standards for residential, public, commercial, industrial and institutional buildings planning, overview of RERA and GDCR.								8
3	Building Drawings Preparing working drawings of residential buildings of various types, scale selection, material description, and elements of perspective views. Detailed drawings of various buildings, Types of perspective views, foundation layouts, urban design diagram, landscape and other sketches.								6
4	Town Planning and Administrative Structures Importance, historical aspects and origin of town planning, Noted urban planners, planning legislation and administration in India, Institutional framework and planning organizations, affordable housing.								5
5	Urban Growth and Survey Trends and growth phases of urbanization, Urban form and activity system, Classification and structure of town, Types of surveys, purpose and importance of civic surveys.								7
6	Principles of Urban Planning Different formats of urban plan, Basic principles of urban planning, Conventional and systematic approach in planning, Details of community planning, land use, zoning and neighborhood planning.								8
7	Trends in Urban Areas Principles for planning residential, commercial and industrial area, Preparation & implementation of development plan, Details of growth regulations, T.P. scheme and new towns. Effect of metro rail in urban planning.								6
Practical Content									
This shall consist of field and laboratory work based on above content.									

Text Books	
1	S.C.Rangwala, Building Planning & Drawing, Charotar Publication.
2	Hiraskar G.K. "Fundamentals of Town Planning", Dhanpat Rai & Sons, Delhi (1993).
Reference Books	
1	Gurcharansingh , Building planning, designing and scheduling.
2	National Building Code-2005, New Delhi.
3	General Development Control Regulations published by AUDA and GICEA.
4	Modak N.V. and V.N. Ambedkar., "Town and Country Planning and Housing", Orient Longman Ltd., New Delhi.
5	Hiraskar G.K. "Fundamental of Town planning", Dhanpat Rai Publication, New Delhi.
ICT/MOOCs Reference	
1	https://lecturenotes.in/download/note/23010?utm_source=materialpage&utm_medium=web&utm_campaign=download-page
2	https://nptel.ac.in/courses/105/105/105105202/
3	https://nptel.ac.in/courses/124/105/124105016/

Mapping of CO with PO and PSO:															
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	0	2	1	2	2	1	0	0	2	2	3	2	2
CO2	2	3	2	2	3	0	0	0	1	1	1	0	3	3	1
CO3	2	2	0	0	0	3	3	2	0	1	0	2	2	1	3
CO4	2	3	2	3	2	2	3	0	1	0	2	3	3	2	3
CO5	2	3	0	3	2	3	3	2	1	1	3	3	3	3	3