Year & Sem: E2S1	Course Code: CE2105	Course Name: **Building Planning and Drawing**	No. of Credits: 4	L	T&PS	P
				2	2	0

UNIT I

Building process-overview, Governmental constraints, Classification of buildings, Components of buildings, Loads and Forces, Building bye laws, Orientation for building, Principle of planning for building.

UNIT II:

Residential Buildings: Different types of Residential Buildings Selection of Site for Residential Building. Brief Information of Housing Colonies for Different Income Groups in India-Sizes of Plots - Public Spaces, Evolutionary Housing Concept

UNIT III:

Climatology: Elements of Climate: Sun, Wind, Relative Humidity, Temperature effects, Comfort Conditions for House, various types of Macro Climatic Zones. Design of houses and layouts with reference to climatic conditions, orientation of buildings. Solar Charts, Ventilation. Principles of Planning Anthropometric Data

UNIT IV:

Preliminary Drawings: (a) Conventional signs of materials various equipment used in a Residential Building (Copying exercise)
(b) Plan section and Elevation of a small House (one room and verandah) (copying exercise)
(c)Plan section and Elevation of Two Bed Room House (copying exercise) (d) (e) (f) Plan section and Elevation of Three bed room house in Hot and Humid zone, Hot and Arid zone, and cold zone (copying exercises)

UNIT V:

(a) Design of Individual rooms with particular attention to functional and furniture requirements. Building Regulations and Byelaws of Residential Buildings;
(b) Drawing the Plan Section and Elevation of flats (Not included in the examination).

UNIT VI:

Drawing the Plan Section and Elevation of Houses with given Functional requirements and climatic Data. (Emphasis may be given to Hot and Humid zones.)

References/Text Books:

1. Building Planning and Drawing by Dr.N. Kumara Swamy and A.Kameswara Rao, Charotar Publishing House.
2. Civil Engineering Drawing Series ‘B’ by R. Trimurty, M/S Premier Publishing House.
3. Building Drawing with an integrated approach to Built environment by M.G.Shah, C.M.Kale and S.Y. Patki, McGraw-Hill Publishing Company Limited, New Delhi.
4. Balagopal T.S. Prabhu, K. Vincent Paul, and C. Vijayan, "Building Drawing and Detailing", Spades Publishers, Calicut, 1987.

Lecture Plan: Unit-I & -II syllabus for MID-I, Unit-III & -IV syllabus for MID-II and Unit-V & -VI syllabus for MID-III examinations.