

DEPARTMENT OF CIVIL ENGINEERING
NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI

COURSE PLAN – PART I			
Course Title	Building, Planning and Drawing		
Course Code	CELR15	No. of Credits	2
Course Code of Pre-requisite subject(s)	-	Semester	IV
Session	Jan 2018	Section (if, applicable)	B
Name of Faculty	Mrs. Anjuna S	Department	Civil Engineering
Email	anjuna@nitt.edu	Telephone No.	9847340486
Name of Course Coordinator(s) (if, applicable)			
E-mail		Telephone No.	
Course Type	Laboratory course		
Syllabus (approved in BoS)			
<p>Classification of buildings - Principles of planning - Dimensions of buildings - Building bye-laws for floor area ratio, open spaces - Orientation of buildings - Lighting and Ventilation- Planning and preparing sketches and working drawings of Residential buildings (Flat and sloping roof), Schools, Hostels, Hospitals, Single-storey factory buildings with trusses. Detailed working drawings of the component parts - Doors and Windows - Roof Trusses - Staircases-Toilets</p>			
COURSE OBJECTIVES			
<ol style="list-style-type: none"> 1. To understand the principles of planning and bylaws. 2. To draw plan, elevation and section of load bearing and framed structures. 3. To draw plan, elevation and section of public and industrial structures 4. To prepare detailed working drawing for doors, windows, etc.. 			

COURSE OUTCOMES (CO)	
Course Outcomes	Aligned Programme Outcomes (PO)
On completion of the course, the students will be able to:	
1. Apply the principles of planning and bylaws used for building planning	a, c, e, f, g
2. Draw plan, elevation and section for various structures	a, c, e, f, g

COURSE PLAN – PART II			
COURSE OVERVIEW			
<p>The objective of the Building Planning and Drawing Laboratory is to demonstrate the planning and bye-laws. In addition, empowering the students with various concepts like dimensioning, conventions and improve their visualization skills standards related to working drawings in order to become professionally efficient.</p>			
COURSE TEACHING AND LEARNING ACTIVITIES			
S.No.	Week/Contact Hours	Topic	Mode of Delivery
1	Week 1 (3 contact hours)	Introduction: Classification of buildings, Principles of planning, Dimensions of buildings Building bye, laws for floor area ratio, open spaces Orientation of buildings, Lighting and Ventilation	Chalk & Talk
2	Week 2 (3 contact hours)	Drawing on conventional signs and symbols in building drawing	
3	Week 3 (3 contact hours)	Drawing on electrical installation in building	
4	Week 4 (3 contact hours)	Foundation and Footing drawings	
5	Week 5 (3 contact hours)	Various columns drawings – Steel, Concrete and Composite	
6	Week 6 (3 contact hours)	Drawing on one way and two way slab	
7	Week 7 (3 contact hour)	Drawing – Residential building 1 (Flat roof and Sloping Roof)	
8	Week 8 (3 contact hour)	Drawing – Official building	

9	Week 9 (3 contact hours)	Drawing – School Building
10	Week 10 (3 contact hours)	Drawing – Doors and Windows
11	Week 11 (3 contact hours)	Drawing – Roof Trusses
12	Week 12 (3 contact hour)	Drawing – Stair Case and Toilet
13	Week 13 (3 contact hours)	Drawing – Post Office

COURSE ASSESSMENT METHODS

S.No.	Mode of Assessment	Week/Date	Duration	% Weightage
1	Continous Assessment	Every Week	3 hours	60
2	End Semester (Written)	15 th Week	1 hour	15
3	End Semester (Practical)	15 th Week	2hours	25
Total				100

COURSE EXIT SURVEY

- Feedback from students as per Institute norms.
- Exit survey from the students at the end of the session through questionnaire

COURSE POLICY

Attendance

- | The Closing date of attendance for the subject is 13th April 2018.
- | 100% attendance is desirable for every student, with minimum attendance being 75%.
- | Attendance during each assessment is mandatory.

MODE OF CORRESPONDENCE (email/ phone etc)

- All the correspondence regarding the course will be communicated through webmail or intimated during class hours.
- Queries/ Clarifications (if necessary) may be e-mailed to anjuna@nitt.edu or can be communicated directly during Institute working hours.

ACADEMIC HONESTY & PLAGIARISM

- Attending all the assessments is mandatory for every student.

MINIMUM PASS MARKS

- The student is expected to score the maximum of half of the average marks or one third of maximum marks to pass the course.

ADDITIONAL INFORMATION

Reference Textbooks:

1. Shah M.G. Kalec. M. & Patki SY Building Drawing, Tata Mcgraw Hill, New Delhi, 2000

FOR APPROVAL

Course Faculty



CC-Chairperson



HOD

