

DEPARTMENT OF CIVIL ENGINEERING
NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI

COURSE PLAN			
Course Title	Basic Civil Engineering		
Course Code	CEIR 11	No. of Credits	2
Department	CIVIL ENGINEERING	Faculty	Mr.Deendayal
Pre-requisites Course Code	NIL		
Course Coordinator(s) (if, applicable)	Mr.Deendayal, Asst.Professor., E-mail: dcendayal@nitt.edu , Phone : 0431-250-3170		
Other Course Teacher(s)/Tutor(s) E-mail	-	Telephone No.	
Course Type	<input checked="" type="checkbox"/> Core course <input type="checkbox"/> Elective course		
COURSE OVERVIEW			
To give an overview of Civil Engineering to the other branches of Engineering.			
COURSE OBJECTIVE			
<ul style="list-style-type: none"> To give an overview of the fundamentals of the Civil Engineering fields to the students of all other branches of Engineering. To realize the importance of the Civil Engineering Profession in fulfilling societal needs. 			
COURSE OUTCOMES (CO)			
Course Outcomes	Aligned Programme Outcomes (PO)		
<ul style="list-style-type: none"> The students will gain knowledge on site selection, construction materials, components of buildings, roads and water resources/environmental Engg. A basic appreciation of multidisciplinary approach when involved in Civil related Projects. 	-		

COURSE TEACHING AND LEARNING ACTIVITIES

S.No	Week	Topic	Mode of Delivery
1	Week 1	Introduction & Properties and uses of construction materials – stones.	PPT & Black board
2	Week 2	Properties and uses of construction materials – bricks.	PPT & Black board
3	Week 3	Properties and uses of construction materials - cement & Concrete.	PPT & Black board
4	Week 4	Properties and uses of construction materials - steel.	PPT & Black board
5	Week 5	Assessment-1	
6	Week 5	Site selection for buildings.	PPT & Black board
7	Week 6	Component of building - Foundation- Shallow and deep foundations.	PPT & Black board
8	Week 7	Brick and stone masonry - Plastering – Lintels.	PPT & Black board
9	Week 8	Beams and columns - Roofs.	PPT & Black board
10	Week 9	Roads-Classification of Rural and urban Roads.	PPT & Black board
11	Week 10	Pavement Materials.	PPT & Black board
12	Week 11	Traffic signs and road marking-Traffic Signals.	PPT & Black board
13	Week 12	Assessment-II	
14	Week 13	Surveying -Classification-Chain Survey-Ranging	PPT & Black board
15	Week 14	Compass Survey-exhibition of different survey equipment.	PPT & Black board
16	Week 15	Sources of Water - Dams- Water Supply-Quality of Water	PPT & Black board
17	Week 16	Wastewater Treatment – Sea Water Intrusion – Recharge of Ground Water	PPT & Black board
18	Week 17	Final Assessment	

COURSE ASSESSMENT METHODS

S.No	Mode of Assessment	Week	Duration	% Weightage
1	Assessment-I	5 th Week	1 hour	20 marks
2	Assessment-II	12 th Week	1 hour	20 marks
3	Assignments: 2 Nos.	3 rd and 10 th week	1 week time	5+5 marks
4	Final Assessment	17 th / 18 th Week	3 hour	50 marks
5	Total			100 marks

ESSENTIAL READINGS : Textbooks, reference books and journals.

Text Books:

Lecture notes prepared by Department of Civil Engineering, NITT.

Reference Books:

- 1.Punmia, B.C, Ashok Kumar Jain, Arun Kumar Jain, Basic Civil Engineering', Lakshmi Publishers, 2012.
- 2.Satheesh Gopi, 'Basic Civil Engineering', Pearson Publishers, 2009.
- 3.Rangwala , S.C, Building materials', Charotar Publishing House, Pvt. Limited, Edition 27, 2009.
- 4.Palanichamy,M.S, 'Basic Civil Engineering ', Tata Mc Graw Hill, 2000.

COURSE EXIT SURVEY (mention the ways in which the feedback about the course is assessed and indicate the attainment also)

1. Class committee meetings.
2. Online - Feedback forms submission through MIS.

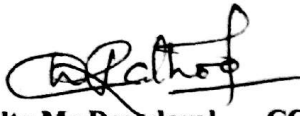
COURSE POLICY (including plagiarism, academic honesty, attendance, etc.)

Minimum 75% attendance is compulsory for attending the final examination.

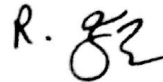
ADDITIONAL COURSE INFORMATION

The Course Coordinator's Room No.: **101 (Civil- Annex Building)**
Timings: **10-5 p.m.**
Email ID: **deendayal@nitt.edu**
Telephone No.: **0431-250-3170**

FOR SENATE'S CONSIDERATION



Course Faculty **Mr. Deendayal** CC-Chairperson



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