



DEPARTMENT OF CIVIL ENGINEERING

COURSE PLAN – PART I			
Name of the programme and specialization	B. Tech – Production Engineering		
Course Title	Basics of Civil Engineering		
Course Code	CEIR11	No. of Credits	2
Course Code of Pre-requisite subject(s)	NA		
Session	(Jan).March 2023	Section (if, applicable)	A
Name of Faculty	Dr. Karthikeyan. J	Department	Civil Engineering
Email	jk@nitt.edu	Telephone No.	+91 – 431-2503176
Name of Course Coordinator(s)	Dr. Vineet Kumar Yadav		
E-mail	Vineet@nitt.edu	Telephone No.	0431-250-3523
Course Type	<input checked="" type="checkbox"/> Core course	<input type="checkbox"/> Elective course	
Syllabus (approved in Senate)			
<p>Properties and uses of construction materials - stones, bricks, cement, concrete and steel.</p> <p>Site selection for buildings - Component of building - Foundation- Shallow and deep foundations - Brick and stone masonry - Plastering - Lintels, beams and columns - Roofs.</p> <p>Roads-Classification of Rural and urban Roads- Pavement Materials-Traffic signs and road Marking-Traffic Signals.</p> <p>Surveying - Classification-Chain Survey-Ranging-Compass Survey-exhibition of different survey equipment.</p> <p>Sources of Water - Dams- Water Supply-Quality of Water-Wastewater Treatment – Sea Water Intrusion – Recharge of Ground Water.</p> <p>References</p> <ol style="list-style-type: none"> 1. Basics of Civil Engineering by S S Bhavikatti 2. Basic Civil Engineering by B C Punmia and Ashok Kumar Jain 3. "Handbook of Civil Engineering" by RPH Editorial Board 4. "Basic Civil Engineering" by RAMAMRUTHAM S 			
COURSE OBJECTIVES			
<ol style="list-style-type: none"> 1. To give an overview of the fundamentals of the Civil Engineering fields to the students of all branches of Engineering, 2. To realize the importance of the Civil Engineering profession in fulfilling societal needs. 			
COURSE OUTCOMES (CO)			

Course Outcomes	Aligned Programme Outcomes (PO)
By the end of this course the students will be able	
1. to gain knowledge on site selection	1, 3, 4, 8
2. to gain knowledge on construction materials	1, 3, 4, 8, 10
3. to gain knowledge on components of buildings.	1, 3, 4, 8, 9
4. Attain in-depth knowledge on roads and water resources.	1, 3, 4, 8, 9, 10
5. A basic appreciation of multidisciplinary approach when involved in Civil Related Projects.	1, 4, 8, 9, 10

COURSE PLAN – PART II

COURSE OVERVIEW

This course uses different mode of lecture like Power point presentations, Board works (Chalk & talk) etc. through offline mode, throughout the course work for all the five units

COURSE TEACHING AND LEARNING ACTIVITIES

S.No.	Week/Contact Hours	Topic	Mode of Delivery
1	23.03.2023 – 1 hour	Introductory class	PPT /Chalk & talk
2	30 & 31 st of March 2023 – 2 hours	Properties and uses of Construction Materials: Stones & Bricks	
3	6 th April 2023 – 1 hour	Properties and uses of Construction Materials: Cement	
4	13 th April 2023 – 1 hour	Properties and uses of Construction Materials: Concrete & Steel	
5	20 & 21 st April 2023 – 2 hours	Site Selection & Component of Building, Shallow & Deep foundation	
6	27 & 28 th April 2023 – 2 hours	Brick & Stone masonry, Lintels, beams, Columns, plastering, roofs	
7	4 th May 2023 – 1 hour	Classification of Rural & urban roads	
8	11 & 12 th May 2023 – 2 hours	Pavement materials, Traffic signs & signals, road marking	
9	18 & 19 th May 2023 – 2 hours	Classification of surveying, chain survey,	
10	25 & 26 th May 2023 – 2 hours	Ranging, Compass survey, Exhibition of different survey equipment	
11	1 & 2 th June 2023 – 2 hours	Sources of water, Dams, Water Supply	

12	8 & 9 th June 2023 – 2 hours	Quality of water-waste water treatment
13	15 & 16 th June 2023 – 2 hours	Sea water intrusion & Recharge of ground water

COURSE ASSESSMENT METHODS

S.No.	Mode of Assessment	Week/Date	Duration	% Weightage
1	Internals -1	Between Apr 24 to 26, 2023	1 hour	20
2	Internals – 2	Between May 22 to 24, 2023	1 hour	20
3	Assignment or Quiz	Questions will be given from April 2023 to First week of June 2023	Submit on or before 9 th June 2023	10
4	Final Assessment	Between July 3 to 10, 2023	3 hours	50

COURSE EXIT SURVEY (from the MIS portal)

COURSE POLICY (preferred mode of correspondence with students, compensation assessment policy to be specified)

COMPENSATION ASSESSMENT POLICY

No Compensation for the any assessments as per the course policy. Hence, Students are advised to attend and submit all the mode of assessments as per the scheduled time. However, one chance may be given to the students who have missed the Internals-1 or Internals -2 only for very genuine reasons and its upto the course faculty to decide to allow them to write or not.

ATTENDANCE POLICY (A uniform attendance policy as per the institute norms shall be followed v. strictly)

MINIMUM PASS MARK POLICY & course grading

As per the institute policy

ACADEMIC DISHONESTY & PLAGIARISM

- Possessing a mobile phone, carrying bits of paper, talking to other students, copying from others during an assessment will be treated as punishable dishonesty.
- Zero mark to be awarded for the offenders. For copying from another student, both students get the same penalty of zero mark.
- The departmental disciplinary committee including the course faculty member, PAC chairperson and the HoD, as members shall verify the facts of the malpractice and award the punishment if the student is found guilty. The report shall be submitted to the Academic office. The above policy against academic dishonesty shall be applicable for all the programs.

FOR APPROVAL

Course Faculty J. Karthikeyan CC-Chairperson Dinesh HoD C.S. N. N. N.