



**SRI RAMAKRISHNA INSTITUTE OF TECHNOLOGY
COIMBATORE-10**

(Approved by AICTE, New Delhi & Affiliated to Anna University)



DEPARTMENT OF SCIENCE AND HUMANITIES

Subject Code & Title	GE2152 BASIC CIVIL ENGINEERING		L P T C 4 0 0 4	
Class	FIRST YEAR (CSE)	Semester	II	
Regulation	R 2008 (ACADAMIC YEAR 2012-2013)			
Course Prerequisite	MATHEMATICS, PHYSICS AND CHEMISTRY			
Expected Outcomes	<ul style="list-style-type: none"> ➤ an ability to apply knowledge of mathematics, science, and engineering ➤ the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context ➤ a knowledge of contemporary issues 			
Relationship of course to program objectives	<ul style="list-style-type: none"> ➤ To develop an understanding of professional and social issues suitable for participation and leadership in their communities. ➤ To develop the capacity to think critically and communicate effectively to a broad audience through a foundation in the humanities and sciences offered through the programme. 			
References	Ref.	Title	Author	Publisher
	R1	Basic Civil and Mechanical Engineering	Shanmugam G and Palanichamy M S	Tata McGraw Hill Publishing Co., New Delhi, (1996)
	R2	Basic Civil Engineering	Seetharaman S	Anuradha Agencies, (2005)
	R3	Basic Civil and Mechanical Engineering	Dr.N.Kottiswara and M.Arulkumaran	Sri Balaji Publications(2008)
Mode of Evaluation	<p>1.Internal Assessment (15) Internal Assessment Test 1 will be conducted for 24 Marks. (2*2=4 & 1*20=20) Internal Assessment Test 2 will be conducted for 24 Marks. (2*2=4 & 1*20=20) Internal Assessment Test 3 will be conducted for 24 Marks. (2*2=4 & 1*20=20) (Three tests will be considered for assessment out of 15) Tests will be conducted as per the schedule given by the university.</p> <p>Course Attendance (5) Assessment out of 5 (Attendance percentage 96-100 : 5; 91-95 : 4; 86-90 : 3; 81-85 : 2; 76-80 : 1)</p> <p>2.External Assessment (80) University will conduct end semester examination for 100 marks (10*2=20 & 5*16=80) Performance will be considered for assessment out of 80.</p>			
Faculty	K.MARUTHI VENKATESH			

COURSE PLAN

Unit	Topics to be covered as per curriculum	Reference	Period
I	SURVEYING AND CIVIL ENGINEERING MATERIALS		
	SURVEYING		
	Objects – types – classification – principles	R1,Ch 01	2
	measurements of distances – angles	R1,Ch 01, R3, Ch 02- Ch03	3
	leveling – determination of areas – illustrative examples	R2Ch 4.21-4.23. R3, Ch 04 -Ch 05.	3
	CIVIL ENGINEERING MATERIALS		
	Bricks – stones	R1,Ch 2.31-2.46	2
	sand – cement	R1, Ch 2.51-2.55. R2, Ch1.8-1.9.	2
	concrete – steel sections	R1, Ch 2.6-2.7 R2, Ch1.10-1.11.	3
	Total Numbers of Hours for Unit I		15
II	BUILDING COMPONENTS AND STRUCTURES		
	Foundations		
	Types, Bearing capacity – Requirement of good foundations	R1, Ch 03, R3, Ch 07	4
	Superstructure		
	Brick masonry – stone masonry	R1, Ch 4.21-4.35	2
	beams – columns – lintels – roofing – flooring – plastering	R1, Ch 4.4-4.10	3
	Mechanics – Internal and external forces – stress – strain – elasticity	R2, Ch4.1-4.17	3
	Types of Bridges and Dams	R2, Ch 3.3- 3.9	2
	Basics of Interior Design and Landscaping	R3, Ch 15	1
	Total Numbers of Hours for Unit II		15
Bridging the Curriculum Gap	Power point presentation		
Description	Types of beams,columns,foundation		

FACULTY

HOD

PRINCIPAL