COs & POs Mapping and Attainment
Odd Semester
2022-2023

SHRIDEVI	**SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY** **SIRA ROAD, TUMKUR- 572 106.**

Academic Year	**:2022-23 (Odd Sem)**	**Faculty**	**: Mr. Prakash J**
Subject	**GEODETICAL ENGINEERING**	**Semester**	**: 3**
Code	**: 21CV32**		

Subject:BASIC SURVEYING	**SubjectCode:18CV35**
Course Outcomes	
CO1	**Possess a sound knowledge of fundamental principles Geodetics**
CO2	**Measurement of vertical and horizontal plane, linear and angular dimensions to arrive at solutions to basic surveying problems.**
CO3	**Capture geodetic data to process and perform analysis for survey problems]**
CO4	**Analyse the obtained spatial data and compute areas and volumes. Represent 3D data on plane figures as contours**

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

CO-PO-PSO Mapping

	POs											
COS	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
CO1	3	2	0	0	0	0	1	1	0	0	0	1
CO2	3	2	0	0	0	1	0	1	0	0	0	1
CO3	3	2	0	0	0	1	1	1	0	0	0	1
CO4	3	2	0	0	0	1	1	1	0	0	0	1
Average	**3**	**2**	0	0	0	**1**	**1**	**1**	0	0	0	**1**

OVERALL MAPPING OF SUBJECT = 1.5

CO-PO ATTAINMENT

		POs											
COS	**% COS**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	
CO1	34.01	2.117	2.83	0	0	0	0	0.71	0.71	0	0	0	0.71	1.41
CO2	48.76	3.035	1.98	0	0	0	1.01	0	1.01	0	0	0	1.01	1.61
CO3	48.1	2.994	2	0	0	0	1	1	1	0	0	0	1	1.50
CO4	61.93	3.855	1.56	0	0	0	1.28	1.28	1.28	0	0	0	1.28	1.76
Average	**48.20**	**3.00**	**2.09**	**0.00**	**0.00**	**0.00**	**1.10**	**1.00**	**1.00**	**0.00**	**0.00**	**0.00**	**1.00**	**1.53**

FINIAL ATTAINMENT **1.57**

Course Instructor

HOD

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Dept. of Civil Engineering
SIET, TUMKUR - 6.

Principal

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Sub Code: 21CV3: GEODETIC ENGINEERING 2022-23 ODD III TH SEM PRAKASH J

Sl. No.	USN NO	Name of the Student	IA1		IA2			IA3			ASSIGNMENT					CIE MARKS				SIE MARKS				60 MAR	COS PERCENTAGE			
			CO1	TOTAL	CO2	CO3	TOTAL	CO3	CO4	TOTAL	CO1	CO2	CO3	CO4	TOTAL	CO1	CO2	CO3	CO4	CO1	CO2	CO3	CO4	SIE	CO1=47.5	CO2=32.5	CO3=47.5	CO4=32.5
1	1SV21CV001	B S YAZDAN	14	14	0	0	0	4	5	9	2.5	2.5	2.5	2.5	10	16.5	2.5	6.5	7.5	11.8	11.8	11.8	11.8	47	59.47	43.85	55.26	59.23
2	1SV21CV002	BHASKARA B	16	16	8	8	16	5	6	11	2.5	2.5	2.5	2.5	10	18.5	10.5	15.5	8.5	8.25	8.25	8.25	8.25	33	56.32	57.69	50.00	51.54
3	1SV21CV003	CHANDAN KUMAR	14	14	7	8	15	10	5	15	2.5	2.5	2.5	2.5	10	16.5	9.5	20.5	7.5	0	0	0	0	0	34.74	29.23	43.16	23.08
4	1SV21CV004	DARSHAN T J	6	6	10	9	19	4	5	9	2.5	2.5	2.5	2.5	10	8.5	12.5	15.5	7.5	9	9	9	9	36	36.84	66.15	51.58	50.77
5	1SV21CV005	HARSHITHA C G	0	0	5	10	15	6	5	11	2.5	2.5	2.5	2.5	10	2.5	7.5	18.5	7.5	4.25	4.25	4.25	4.25	17	14.21	36.15	47.89	36.15
6	1SV21CV007	LALAWMPULA	18	18	10	10	20	10	6	16	2.5	2.5	2.5	2.5	10	20.5	12.5	22.5	8.5	6.5	6.5	6.5	6.5	26	56.84	58.46	61.05	46.15
7	1SV21CV008	LIANDINGPUIA	14	14	5	6	11	7	0	7	2.5	2.5	2.5	2.5	10	16.5	7.5	15.5	2.5	10.3	10.3	10.3	10.3	41	56.32	54.62	54.21	39.23
8	1SV21CV010	SHANI	14	14	5	5	10	5	0	5	2.5	2.5	2.5	2.5	10	16.5	7.5	12.5	2.5	6	6	6	6	24	47.37	41.54	38.95	26.15
9	1SV21CV011	SHREYAS M	0	0	3	10	13	0	5	5	2.5	2.5	2.5	2.5	10	2.5	5.5	12.5	7.5	4	4	4	4	16	13.68	29.23	34.74	35.38
10	1SV21CV014	TEJASWINI K	0	0	7	10	17	0	0	0	2.5	2.5	2.5	2.5	10	2.5	9.5	12.5	2.5	9.5	9.5	9.5	9.5	38	25.26	58.46	46.32	36.92
11	1SV21CV015	Y SHILPA	19	19	10	10	20	7	8	15	2.5	2.5	2.5	2.5	10	21.5	12.5	19.5	10.5	5.25	5.25	5.25	5.25	21	56.32	54.62	52.11	48.46
12	1SV22CV400	JEEVAN T K	0	0	9	10	19	8	7	15	2.5	2.5	2.5	2.5	10	2.5	11.5	20.5	9.5	2.25	2.25	2.25	2.25	9	10.00	42.31	47.89	36.15
13	1SV22CV401	RANJITH V	0	0	10	9	19	9	4	13	2.5	2.5	2.5	2.5	10	2.5	12.5	20.5	6.5	3.75	3.75	3.75	3.75	15	13.16	50.00	51.05	31.54
14	1SV22CV402	VIMALA T L	0	0	8	7	15	5	5	10	2.5	2.5	2.5	2.5	10	2.5	10.5	14.5	7.5	7.5	7.5	7.5	7.5	30	21.05	55.38	46.32	46.15
		average	8	8	7	9	16	6	4	10	3	3	3	3	10	10	10	17	7	6	6	6	6	24	34	49	48	39

CO-PO-PSO Mapping												
	POs											
COS	1	2	3	4	5	6	7	8	9	10	11	#
CO1	3	2	0	0	0	0	1	1	0	0	0	1
CO2	3	2	0	0	0	1	0	1	0	0	0	1
CO3	3	2	0	0	0	1	1	1	0	0	0	1
CO4	3	2	0	0	0	1	1	1	0	0	0	1
Average	3	2	0	0	0	1	1	1	0	0	0	1
OVERALL MAPPING OF SUBJECT = 1.5												

CO-PO ATTAINMENT														
		POs												
COS	% COS	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	34.01	2.117	2.83	0	0	0	0	0.7056	0.7056	0	0	0	0.706	1.41
CO2	48.76	3.035	1.98	0	0	0	1.01	0	1.0116	0	0	0	1.012	1.61
CO3	48.1	2.994	2	0	0	0	1	0.99793	0.9979	0	0	0	0.998	1.50
CO4	61.93	3.855	1.56	0	0	0	1.28	1.28485	1.2849	0	0	0	1.285	1.76
Average	48	3	2	0	0	0	1	1	1	0	0	0	1	2
FINIAL ATTAINMENT														1.57

Course Instructor

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SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF CIVIL ENGINEERING

SUBJECT	EARTH RESOURCES AND ENGINEERING	SUBJECT CODE	21CV34

COURSE OUTCOME

CO1. To understand the importance of earth's dynamic interior in civil engineering and Geo Hazard mitigation and management

CO2. To analyse the physical characteristics of the rocks and Minerals for its suitable application in Engineering

CO3. To evaluate earth Process for providing sustainable management and Development through Geoengineering.

CO4. Subsurface Exploration for providing safe and suitable site condition and Earth Resources for Reengineering activities

CO5. To application of modern tools and techniques in Earth Resources Management

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

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PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY				
FACULTY NAME	Mrs. Radhika T N				
BRANCH	CIVIL ENGINEERING	ACADEMIC YEAR	2022-23		
COURSE	B.E	SEMESTER	3	SECTION	---
SUBJECT	EARTH RESOURCES AND ENGINEERING	SUBJECT CODE	21CV34		

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1											1
CO2	2											2
CO3	2					2						2
CO4	2											2
CO5	2											2
AVERAGE	1.75					2						1.75
OVERALL MAPPING OF SUBJECT												1.83

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	62.64	0.63											0.63
CO2	58.26	1.17											1.17
CO3	61.16	1.22					1.22						1.22
CO4	61.16	1.22											1.22
CO5	60.045	1.20											1.20
AVERAGE		1.06					1.22						1.06
FINAL ATTAINMENT LEVEL OF THE COURSE													1.11

Academic year	2022-23		SEM				Total strength		14		Subject		Earth Resources and Engineering							Sub Code: 21CV34					% of individual CO				
SEM:I,SEC: C&D	IA TEST 1(30M)		IA TEST 2(30M)				IA TEST 3(30M)		ASSIGNEMENT / QUIZ(10 M)				SEE MARKS(60)					Total Cos ATTAINMENT											
USN	CO1 40	TOTAL	CO2 - 20	CO3 - 20	TOTAL	CO4 20	CO5 -20	TOTAL	CO1 2	CO2 2	CO3 2	CO4 2	CO5 2	CO1=10	CO2 = 10	CO3 = 10	CO4 = 10	CO5 = 10	CO1=52	CO2=32	CO3=32	CO4=32	CO5=32	CO1	CO2	CO3	CO4	CO5
1SV21CV001	25	25	12	13	25	12	13	25	2	2	2	2	2	3	3	3	3	3	30	17	18	17	18	57.7	53.1	56.3	56.3	53.1
1SV21CV002	26	26	13	13	26	13	13	26	2	2	2	2	2	2	2	2	3	3	30	17	17	18	18	57.7	53.1	53.1	53.1	56.3
1SV21CV003	36	36	18	18	36	18	18	36	2	2	2	2	2	3	3	4	4	4	41	23	24	24	24	78.8	71.9	75.0	75.0	75.0
1SV21CV004	30	30	15	15	30	15	15	30	2	2	2	2	2	3	3	4	4	4	35	20	21	21	21	67.3	62.5	65.6	65.6	65.6
1SV21CV005	31	31	15	16	31	15	16	31	2	2	2	2	2	4	4	4	5	5	37	21	22	22	23	71.2	65.6	68.8	68.8	68.8
1SV21CV007	34	34	17	17	34	17	17	34	2	2	2	2	2	3	3	4	4	4	39	22	23	23	23	75.0	68.8	71.9	71.9	71.9
1SV21CV008	17	17	8	9	17	8	9	17	2	2	2	2	2	1	1	1	1	0	20	11	12	11	11	38.5	34.4	37.5	37.5	34.4
1SV21CV010	21	21	10	11	21	10	11	21	2	2	2	2	2	2	2	3	3	3	25	14	16	15	16	48.1	43.8	50.0	50.0	46.9
1SV21CV011	17	17	8	9	17	8	9	17	2	2	2	2	2	3	3	3	3	3	22	13	14	13	14	42.3	40.6	43.8	43.8	40.6
1SV21CV014	16	16	8	8	16	8	8	16	2	2	2	2	2	3	3	4	4	4	21	13	14	14	14	40.4	40.6	43.8	43.8	43.8
1SV21CV015	36	36	18	18	36	18	18	36	2	2	2	2	2	3	3	4	4	4	41	23	24	24	24	78.8	71.9	75.0	75.0	75.0
1SV22CV400	36	36	18	18	36	18	18	36	2	2	2	2	2	3	3	4	4	4	41	23	24	24	24	78.8	71.9	75.0	75.0	75.0
1SV22CV401	31	31	15	16	31	15	16	31	2	2	2	2	2	4	5	5	5	5	42	25	25	25	25	80.8	78.1	78.1	78.1	78.1
1SV22CV402	33	33	16	17	33	16	17	33	2	2	2	2	2	1	2	2	2	2	34	19	20	19	20	65.4	59.4	62.5	62.5	59.4
									2	2	2	2	2	4	5	5	5	5	39	23	24	23	24	75.0	71.9	75.0	75.0	71.9
																								62.6	58.3	61.2	61.2	60.0

Radhika
Course Instructor

HOD

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SHRIDEVI	**SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY** **SIRA ROAD, TUMKUR- 572 106.**

Academic Year	**:2022-23 (ODD Sem)**	**Faculty**	**: Dr. G MaheshKumar / Mrs. Radhika T N**
Subject	**:** Construction Management & Entrepreneurship	**Semester**	**:** 5
Code	**:** 18CV51		

Course Outcomes	
CO1	Prepare a project plan based on requirements and prepare schedule of a project by understanding the activities and their sequence.
CO2	Understand labour output, equipment efficiency to allocate resources required for an activity / project to achieve desired quality and safety.
CO3	Analyze the economics of alternatives and evaluate benefits and profits of a construction activity based on monetary value and time value.

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

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Sri Shridevi Charitable Trust (R.)
SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY
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(Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka and Affiliated to Visvesvaraya Technological University, Belagavi)
ESTD:2002

Academic Year :2022-23 (ODD Sem) **Faculty** : Dr. G Mahesh Kumar / Mrs. Radhika T N

Subject: Construction management and Entrepreneurship	**Subject Code: 18CV51**

Course outcomes

CO1	Outline the construction management process
CO2	Assess various issues that are encountered by every professional in discharging professional dyties.
CO3	Identifying the professional obligation effectively with global outlook

CO-PO-PSO Mapping

CO	**POs**												**PSOs**		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**1**	**2**	**3**
CO1	1				1			1	1		1	1		2	
CO2	1	1												2	
CO3	1										2	1		2	
Average	1				1			1	1		1.5	1		2	

CO-PO-PSO Attainment

CO	**POs**												**PSOs**			
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**1**	**2**	**3**	
CO1	0.74				0.74			0.74	0.74		0.74	0.74				
CO2	0.74	0.64														
CO3	0.27				0.27			0.27	0.27		0.55	0.27				
Average	0.58	0.64			0.51			0.51	0.51		0.64	0.51				0.56

Course Instructor **HOD** **Principal**

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SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF CIVIL ENGINEERING

SUBJECT	ANALYSIS OF INDETERMINATE STRUCTURES	SUBJECT CODE	18CV52

COURSE OUTCOME

CO1. Determine the moment in indeterminate beams and frames having variable moment of inertia and subsidence using slope defection method

CO2. Determine the moment in indeterminate beams and frames of no sway and sway using moment distribution method.

CO3. Construct the bending moment diagram for beams and frames by Kani's method.

CO4. Construct the bending moment diagram for beams and frames using flexibility method

CO5. Analyze the beams and indeterminate frames by system stiffness method.

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY		
FACULTY NAME	Mr. MANOGNA H N		
BRANCH	CV	ACADEMIC YEAR	2022-23
COURSE	B.E	SEMESTER	V
SUBJECT	ANALYSIS OF INDETERMINATE STRUCTURES	SUBJECT CODE	18CV52

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3										1
CO2	3	3										1
CO3	3	3										1
CO4	3	3										1
CO5	3	3										1
AVERAGE	3	3										1
											OVERALL MAPPING OF SUBJECT	2.33

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	59.20	1.77	1.77										0.59
CO2	36.19	1.08	1.08										0.36
CO3	70.43	2.11	2.11										0.70
CO4	20	0.6	0.6										0.2
CO5	51.53	1.54	1.54										0.51
AVERAGE	47.47	1.42	1.42										0.47
												FINAL ATTAINMENT LEVEL	1.01

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SL.NO	USN	STUDENT NAME	IA 1	IA 2	IA 3	AVG IA	A 1	A 2	A 3	AVG A	IA 1			IA 2			IA 3			Avg	ASSIGNMENT MARKS					SEE	SEE				
											CO1	CO2	CO3	CO4	CO5		1	2	3	1	2	3	1	2	3																					
											30mark	30marks	15mar	15marks	30marks												CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5
1	1SV19CV006	Arvind Sharma Kakchingtabam	11	20	8	23	10	10	10	10	11.25	5.25	14.25	0	7.5	13	10	0	5	7	0	19	10	0	0	2	2	2	2	2	11	2.2	2.2	2.2	2.2	2.2
2	1SV20CV001	Adarsha Sing Okram	20	30	26	36	10	10	10	10	20.25	15.00	15	11.25	15	26	20	7	0	20	0	20	20		15	2	2	2	2	2	46	9.2	9.2	9.2	9.2	9.2
3	1SV20CV002	Akash T R	AB	2	23	19	10	10	10	10	0	1.50	0	0	22.5	8	0	0	0	2			20	10		2	2	2	2	2	9	1.8	1.8	1.8	1.8	1.8
4	1SV20CV003	Dipendra Kumar Pandit	25	30	26	37	10	10	10	10	24.75	15.00	15	0	26.25	27	18	15		20		20	20	15		2	2	2	2	2	23	4.6	4.6	4.6	4.6	4.6
5	1SV20CV005	Lakshmi G V	30	29	29	40	10	10	10	10	29.25	15.00	15	13.5	15	29	20	19		20		20	20		18	2	2	2	2	2	35	7	7	7	7	7
6	1SV20CV006	Mahalakshmi B	15	15	21	27	10	10	10	10	15	7.50	7.5	0	21	17	10	10		10		10	18	10		2	2	2	2	2	9	1.8	1.8	1.8	1.8	1.8
7	1SV20CV007	Pankaj Varma	AB	16	10	19	10	10	10	10	15.75	0.00	0	7.5	15	13	15	6					20		10	2	2	2	2	2	22	4.4	4.4	4.4	4.4	4.4
8	1SV20CV008	Pramila S	26	30	29	39	10	10	10	10	26.25	30.00	0	13.5	15	28	20		15	20	20		20		18	2	2	2	2	2	15	3	3	3	3	3
9	1SV20CV009	Sanjana D M	30	30	29	40	10	10	10	10	30	15.00	15	13.5	15	30	20	20		20		20	20		18	2	2	2	2	2	24	4.8	4.8	4.8	4.8	4.8
10	1SV20CV010	Shwetha. P	26	22	26	35	10	10	10	10	25.5	21.75	0	0	26.25	25	15	19		19	10		20	15		2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2
11	1SV20CV011	Siddartha K R	AB	4	23	19	10	10	10	10	0	3.75	0	0	22.5	9				5			20	10		2	2	2	2	2	13	2.6	2.6	2.6	2.6	2.6
12	1SV20CV014	Yamuna M	17	15	8	24	10	10	10	10	16.5	7.50	7.5	0	7.5	13	10	12		10		10	10		0	2	2	2	2	2	9	1.8	1.8	1.8	1.8	1.8
13	1SV20CV015	Yashwanth Kumar T	20	30	29	37	10	10	10	10	20.25	15.00	15	0	28.5	26	15	12		20		20	20	18		2	2	2	2	2	25	5	5	5	5	5
14	1SV21CV400	Sowmya v	30	30	26	39	10	10	10	10	29.25	15.00	15	0	26.25	29	19	20		20		20	20	15		2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4
		Average	17.86	21.64	22.36	31.00	10.00	10.00	10.00	10.00	17.86	11.95	8.52	4.23	18.80	21																					

TOTAL COS ATTAINNMENT

MARKS	CO1 29 MARKS	CO3 29 MARKS	CO4 29 MARKS	CO5 29 MARKS
15.45	9.45	18.45	4.2	11.7
31.45	26.20	26.2	22.45	26.2
3.8	5.30	3.8	3.8	26.3
31.35	21.60	21.6	6.6	32.85
38.25	24.00	24	22.5	24
18.8	11.30	11.3	3.8	24.8
22.15	6.40	6.4	13.9	21.4
31.25	35.00	5	18.5	20
36.8	21.80	21.8	20.3	21.8
32.7	28.95	7.2	7.2	33.45
4.6	8.35	4.6	4.6	27.1
20.3	11.30	11.3	3.8	11.3
27.25	22.00	22	7	35.5
36.65	22.40	22.4	7.4	33.65

PERCENTAGE OF TOTAL COS ATTAINNMENT

CO1	CO2	CO3	CO4	CO5
35.11364	21.47727	63.62069	14.48276	26.59091
71.47727	59.54545	90.34483	77.41379	59.54545
8.636364	12.04545	13.10345	13.10345	59.77273
71.25	49.09091	74.48276	22.75862	74.65909
86.93182	54.54545	82.75862	77.58621	54.54545
42.72727	25.68182	38.96552	13.10345	56.36364
50.34091	14.54545	22.06897	47.93103	48.63636
71.02273	79.54545	17.24138	63.7931	45.45455
83.63636	49.54545	75.17241	70	49.54545
74.31818	65.79545	24.82759	24.82759	76.02273
10.45455	18.97727	15.86207	15.86207	61.59091
46.13636	25.68182	38.96552	13.10345	25.68182
61.93182	50	75.86207	24.13793	80.68182
83.29545	50.90909	77.24138	25.51724	76.47727
59.20455	36.19318	70.43103	20	51.53409
0.592045	0.361932	0.70431	0.2	0.515341
3	3	3	3	3
1	1	1	1	1

Course Instructor

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SHRIDEVI	**SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY** **SIRA ROAD, TUMKUR- 572 106.**

Academic Year	**:2022-23 (ODD Sem)**	**Faculty**	**: Mrs. Radhika T N**
Subject	: Design of RC Structural Elements	**Semester**	: 5
Code	: 18CV53		

Course Outcomes	
CO1	Understand the design philosophy and principles.
CO2	Solve engineering problems of RC elements subjected to flexure, shear and torsion.
CO3	Demonstrate the procedural knowledge in designs of RC structural elements such as slabs, columns and footings
CO4	Owns professional and ethical responsibility.

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

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Email: info@shrideviengineering.org, principal@shrideviengineering.org | Website: www.shrideviengineering.org
(Approved by AICTE, New Delhi. Recognised by Govt. of Karnataka and Affiliated to Visvesvaraya Technological University, Belagavi)
SHRIDEVI EDUCATION
ESTD:2002 20 YEARS Academic Excellence

Academic Year :2022-23 (ODD Sem) **Faculty** : Mrs. Radhika T N

Subject: Design of RC structural elements	**Subject Code: 18CV53**

Course outcomes

CO1	Apply the design philosophies and principals of the codal provisions.
CO2	Analyse and design of the beam elements for flexure, shear and torsion.
CO3	Analyse and design of the slab and staircase using the knowledge of codal provisions.
CO4	Design of the column and footing using the design principals.

CO-PO-PSO Mapping

CO	POs												PSOs		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	2	1	1					3				1	2		
CO2	3	3	3					3				2	2		
CO3	3	2	3					3				2	2		
CO4	3	2	3					3				2	2		
Average	2.75	2	2.5					3				1.75	2		

CO-PO-PSO Attainment

CO	POs												PSOs		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	1.07	0.54	0.54					1.61				0.54			
CO2	1.67	1.67	1.67					1.67				1.12			
CO3	1.67	1.12	1.67					1.67				1.12			
CO4	1.87	1.25	1.87					1.87				1.25			
Average	1.6	1.1	1.4					1.7				1.0			

Radhika
Course Instructor

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SHRIDEVI	**SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY** **SIRA ROAD, TUMKUR- 572 106.**

Academic Year	**:2022-23 (EVEN Sem)**	**Faculty**	**: Dr. G MaheshKumar**
Subject	: Basic Geotechnical Engineering	**Semester**	: 5
Code	: 18CV54		

Course Outcomes	
CO1	Ability to plan and execute geotechnical site investigation program for different civil engineering projects.
CO2	Understanding of stress distribution and resulting settlement beneath the loaded footings on sand and clayey soils.
CO3	Ability to estimate factor of safety against failure of slopes and to compute lateral pressure distribution behind earth retaining structures.
CO4	Ability to determine bearing capacity of soil and achieve proficiency in proportioning shallow isolated and combined footings for uniform bearing pressure.
CO5	Capable of estimating load carrying capacity of single and group of piles.

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

CO-PO Mapping													
	POs												
COS	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	3	3	3	3	1	2	2	3	3	2	2	3	2.5
CO2	3	3	3	2	1	3	2	3	3	3	3	3	2.67
CO3	3	3	3	2	1	3	2	3	3	3	3	3	2.67
CO4	3	3	3	3	3	3	2	3	2	2	2	3	2.67
CO5	3	3	3	3	3	3	2	3	2	2	2	3	2.67
Average	3	3	3	2.6	1.8	2.8	2	3	2.6	2.4	2.4	3	2.63
												OVERALL MAPPING OF SUBJECT = 2.63	

CO-PO ATTAINMENT													
		POs											
COS	% COS	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	56	1.7	1.68	1.7	1.7	0.56	1.12	1.1	1.7	1.68	1.12	1.117	1.68	1.4
CO2	45	1.4	1.36	1.4	0.9	0.45	1.36	0.9	1.4	1.36	1.36	1.36	1.36	1.21
CO3	55	1.7	1.66	1.7	1.1	0.55	1.66	1.1	1.7	1.66	1.66	1.663	1.66	1.48
CO4	63	1.9	1.89	1.9	1.9	1.89	1.89	1.3	1.9	1.26	1.26	1.26	1.89	1.68
CO5	48	1.4	1.45	1.4	1.4	1.45	1.45	1.0	1.4	0.97	0.97	0.966	1.45	1.29
Average		1.61	1.61	1.61	1.4	0.98	1.5	1.07	1.61	1.385	1.27	1.273	1.61	1.41
													FINIAL ATTAINMENT	1.41

Course Instructor

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ACADEMIC 2022-23 ODD — BGE — 18CV54

SEM: V Civil

USN	IA TEST 1 CO1	CO2	TOTAL	IA TEST 2 CO1	CO3	TOTAL	IA TEST 3 CO4	CO5	TOTA	AVE(30)	Asnm CO1	CO2	CO3	CO4	CO5	CIE CO1	CO2	CO3	CO4	CO5	SEE	G TOT.	44 CO1	29 CO2	29 CO3	29 CO4	29 CO5	CO1	CO2	CO3	CO4	CO5
1SV20CV001	10	8	18	13	11	24	15	12	27	23	2	2	2	2	1	9	32	8	8	7	7	7	37	69	33	18	20	24	20	75	62	69	83	69
1SV20CV002	3	3	6	8	6	14	4	2	6	10	2	2	1	2	2	9	19	5	5	5	4	4	23	42	18	10	12	10	8	41	34	41	34	28
1SV20CV003	6	5	11	10	9	19	7	7	14	15	2	2	2	1	2	9	24	6	6	6	4	9	31	55	24	13	17	12	18	55	45	59	41	62
1SV20CV005	6	3	9	11	10	21	15	8	23	18	2	2	2	2	2	10	28	5	8	5	6	5	29	57	24	13	17	23	15	55	45	59	79	52
1SV20CV006	4	4	8	10	9	19	12	5	17	15	2	2	2	2	2	10	25	5	4	8	3	2	22	47	21	10	19	17	9	48	34	66	59	31
1SV20CV007	6	5	11	11	10	21	10	3	13	15	2	2	2	1	1	8	23	5	5	5	3	3	21	44	24	12	17	14	7	55	41	59	48	24
1SV20CV008	10	7	17	10	8	18	15	12	27	21	2	2	2	2	2	10	31	8	9	8	8	8	41	72	30	18	18	25	22	68	62	62	86	76
1SV20CV009	10	9	19	15	14	29	15	14	29	26	2	2	2	2	2	10	36	10	9	9	8	8	44	80	37	20	25	25	24	84	69	86	86	83
1SV20CV010	10	7	17	12	11	23	15	9	24	21	2	2	2	2	2	10	31	8	8	7	7	6	36	67	32	17	20	24	17	73	59	69	83	59
1SV20CV011	10	7	17	3	1	4	7	2	9	10	2	2	1	2	2	9	19	1	0	1	0	0	2	21	16	9	3	9	4	36	31	10	31	14
1SV20CV014	3	2	5	6	6	12	12	3	15	11	2	2	2	2	2	10	21	3	2	2	2	3	12	33	14	6	10	16	8	32	21	34	55	28
1SV20CV015	6	4	10	9	9	18	15	14	29	19	2	2	2	2	2	10	29	5	8	5	6	5	29	58	22	14	16	23	21	50	48	55	79	72
1SV21CV400	9	8	17	11	11	22	15	11	26	22	2	2	2	1	2	9	31	8	7	7	7	6	35	66	30	17	20	23	19	68	59	69	79	66
1SV19CV006	6	5	11	10	9	19	8	2	10	13	2	1	1	1	1	6	19	1	1	1	1	1	5	24	19	7	11	10	4	43	24	38	34	14
TOTAL	99	77	176	139	124	263	165	104	269	239	28	27	25	24	25	129	368	78	80	76	66	67	367	735	344	184	225	255	196	782	634	776	879	676
Total students	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
Average	7.071	5.5	12.571	9.929	8.86	18.786	11.8	7.43	19.2	17.071	2	1.93	1.79	1.71	1.7857	9.21	26.3	5.57	5.71	5.43	4.71	4.79	26.2	52.5	25	13	16	18	14	56	45	55	63	48

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
CO1	3	3	3	3	1	2	2	3	3	2	2	3	2.5
CO2	3	3	3	2	1	3	2	3	3	3	3	3	2.67
CO3	3	3	3	2	1	3	2	3	3	3	3	3	2.67
CO4	3	3	3	3	3	3	2	3	2	2	2	3	2.67
CO5	3	3	3	3	3	3	2	3	2	2	2	3	2.67
	3	3	3	2.6	1.8	2.8	2	3	2.6	2.4	2.4	3	2.63

	Ave%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
CO1	56	1.7	1.68	1.7	1.7	0.56	1.12	1.1	1.7	1.68	1.12	1.117	1.68	1.4
CO2	45	1.4	1.36	1.4	0.9	0.45	1.36	0.9	1.4	1.36	1.36	1.36	1.36	1.21
CO3	55	1.7	1.66	1.7	1.1	0.55	1.66	1.1	1.7	1.66	1.66	1.663	1.66	1.48
CO4	63	1.9	1.89	1.9	1.9	1.89	1.89	1.3	1.9	1.26	1.26	1.26	1.89	1.68
CO5	48	1.4	1.45	1.4	1.4	1.45	1.45	1	1.4	0.97	0.97	0.966	1.45	1.29
Average		1.61	1.61	1.61	1.4	0.98	1.5	1.07	1.61	1.385	1.27	1.273	1.61	1.41

Course Instructor

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(Approved by AICTE, New Delhi. Recognised by Govt. of Karnataka and Affiliated to Visvesvaraya Technological University, Belagavi)
ESTD:2002
20 YEARS
Academic Excellence

Subject: MUNICIPAL WASTEWATER ENGINEERING	**Subject Code:**18CV55

Course Outcomes

CO1	Select the appropriate sewer appurtenances and materials in sewer network.
CO2	Design the sewers network and understand the self-purification process in flowing water.
CO3	Design the varies physic- chemical treatment units
CO4	Design the various biological treatment units
CO5	Design various AOPs and low cost treatment units.

CO-PO-PSO Mapping

COs	POs												PSOs		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	2	2				2	2	2				1			
CO2	2	2				2	2	2				1			
CO3	2	2				2	2	2				1			
CO4	2	2				2	2	2				1			
CO5	2	2				2	2	2				1			
Average	2	2				2	2	2				1			

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	55.52	1.11	1.11	0	0	0	1.11	1.11	1.11	0	0	0	0.55
CO2	66.75	1.33	1.33	0	0	0	1.33	1.33	1.33	0	0	0	0.66
CO3	67.98	1.36	1.36	0	0	0	1.36	1.36	1.36	0	0	0	0.68
CO4	61.58	1.23	1.23	0	0	0	1.23	1.23	1.23	0	0	0	0.61
CO5	62.81	1.25	1.25	0	0	0	1.25	1.25	1.25	0	0	0	0.62
AVERAGE	62.928	1.256	1.256	0	0	0	1.256	1.256	1.256	0	0	0	0.624
												FINAL ATTAINMENT LEVEL	1.15

Sub Code: 18CV55 MUNICIPAL WASTE WATER ENGNINNERING V TH SEM NIRANJANI B

Sl. No.	USN NO	Name of the Student	IA1		IA2			IA3			ASSIGNMENT						40 MARKS	CIE MARKS					SIE MARKS					60 MARKS
			CO1	TOTAL	CO2	CO3	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CIE	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	SIE
1	1SV19CV006	Arvind Sharma Kakchingtabam	3	3	9	9	18	11	12	23	2	2	2	2	2	10	25	5	11	11	13	14	0	0	0	0	0	0
2	1SV20CV001	Adarsha Sing Okram	29	29	14	15	29	14	14	28	2	2	2	2	2	10	39	31	16	17	16	16	7.2	7.2	7.2	7.2	7.2	36
3	1SV20CV002	Akash T R	0	0	12	12	24	12	11	23	2	2	2	2	2	10	26	2	14	14	14	13	2.4	2.4	2.4	2.4	2.4	12
4	1SV20CV003	Dipendra Kumar Pandit	12	12	9	10	19	7	7	14	2	2	2	2	2	10	25	14	11	12	9	9	4.2	4.2	4.2	4.2	4.2	21
5	1SV20CV005	Lakshmi G V	28	28	15	14	29	7	8	15	2	2	2	2	2	10	34	30	17	16	9	10	5.8	5.8	5.8	5.8	5.8	29
6	1SV20CV006	Mahalakshmi B	0	0	12	12	24	9	9	18	2	2	2	2	2	10	24	2	14	14	11	11	7.8	7.8	7.8	7.8	7.8	39
7	1SV20CV007	Pankaj Varma	18	18	11	12	23	6	7	13	2	2	2	2	2	10	28	20	13	14	8	9	6.4	6.4	6.4	6.4	6.4	32
8	1SV20CV008	Pramila S	30	30	13	14	27	15	14	29	2	2	2	2	2	10	39	32	15	16	17	16	7.6	7.6	7.6	7.6	7.6	38
9	1SV20CV009	Sanjana D M	30	30	15	15	30	15	15	30	2	2	2	2	2	10	40	32	17	17	17	17	7.8	7.8	7.8	7.8	7.8	39
10	1SV20CV010	Shwetha. P	26	26	10	11	21	10	11	21	2	2	2	2	2	10	33	28	12	13	12	13	4.6	4.6	4.6	4.6	4.6	23
11	1SV20CV011	Siddartha K R	0	0	11	12	23	11	12	23	2	2	2	2	2	10	25	2	13	14	13	14	4.2	4.2	4.2	4.2	4.2	21
12	1SV20CV014	Yamuna M	17	17	12	12	24	9	9	18	2	2	2	2	2	10	30	19	14	14	11	11	4.8	4.8	4.8	4.8	4.8	24
13	1SV20CV015	Yashwanth Kumar T	19	19	14	14	28	9	10	19	2	2	2	2	2	10	32	21	16	16	11	12	6	6	6	6	6	30
14	1SV21CV400	Sowmya v	29	29	13	13	26	14	15	29	2	2	2	2	2	10	38	31	15	15	16	17	4.2	4.2	4.2	4.2	4.2	21
		AVERAGE	17.2	17.2143	12.1	12.5	24.6429	10.6	11	21.64	2	2	2	2	2	10	31.17	19.2	14	15	13	13	5.2	5.2	5.2	5.2	5.214	26.07

TOTAL COS MARKS						COS PRECENTAGE					
CO1	CO2	CO3	CO4	CO5		CO1=44	CO2=29	CO3=29	CO4=29	CO5=29	
5	11	11	13	14		11.36	37.93	37.93	44.83	48.28	
38.2	23.2	24.2	23.2	23.2		86.82	80.00	83.45	80.00	80.00	
4.4	16.4	16.4	16.4	15.4		10.00	56.55	56.55	56.55	53.10	
18.2	15.2	16.2	13.2	13.2		41.36	52.41	55.86	45.52	45.52	
35.8	22.8	21.8	14.8	15.8		81.36	78.62	75.17	51.03	54.48	
9.8	21.8	21.8	18.8	18.8		22.27	75.17	75.17	64.83	64.83	
26.4	19.4	20.4	14.4	15.4		60.00	66.90	70.34	49.66	53.10	
39.6	22.6	23.6	24.6	23.6		90.00	77.93	81.38	84.83	81.38	
39.8	24.8	24.8	24.8	24.8		90.45	85.52	85.52	85.52	85.52	
32.6	16.6	17.6	16.6	17.6		74.09	57.24	60.69	57.24	60.69	
6.2	17.2	18.2	17.2	18.2		14.09	59.31	62.76	59.31	62.76	
23.8	18.8	18.8	15.8	15.8		54.09	64.83	64.83	54.48	54.48	
27	22	22	17	18		61.36	75.86	75.86	58.62	62.07	
35.2	19.2	19.2	20.2	21.2		80.00	66.21	66.21	69.66	73.10	
24.43	19.36	19.71	17.86	18.21		55.52	66.75	67.98	61.58	62.81	

Course Instructor

HOD

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Dept. of Civil Engineering
SIET, TUMKUR - 6.

Principal

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SIET, TUMKUR.

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(Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka and Affiliated to Visvesvaraya Technological University, Belagavi)
ESTD:2002 20 YEARS Academic Excellence

Course Instructor : Prakash J

Subject: HIGHWAY ENGINEERING		**SubjectCode:**18CV56
CourseOutcomes		
CO1	Acquire the capability of proposing a new alignment or re-alignment of existing roads, conduct necessaryfield investigation for generation of required data.	
CO2	Evaluate the engineering properties of the materials and suggest the suitability of the same for pavementconstruction.	
CO3	Design road geometrics, structural components of pavement and drainage.	
CO4	Evaluate the highway economics by few select methods and also will have a basic knowledge of varioushighway financing concepts.	

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability,statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

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(Approved by AICTE, New Delhi. Recognised by Govt. of Karnataka and Affiliated to Visvesvaraya Technological University, Belagavi)
ESTD:2002 20 YEARS Academic Excellence

Subject: HIGHWAY ENGINEERING	SubjectCode:18CV56

Course Outcomes

CO1	Acquire the capability of proposing a new alignment or re-alignment of existing roads, conduct necessary field investigation for generation of required data.
CO2	Evaluate the engineering properties of the materials and suggest the suitability of the same for pavement construction.
CO3	Design road geometrics, structural components of pavement and drainage.
CO4	Evaluate the highway economics by few select methods and also will have a basic knowledge of various highway financing concepts.

CO-PO-PSO Mapping

COs	POs												PSOs		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	2					1	1				1			
CO2	3	2				1		1				1			
CO3	3	2					1	1				1			
CO4	2	2				1	1	1				1			
Average	2.75	2				0.25	0.75	1				1			

OVERALL MAPPING OF SUBJECT =0.73

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	57.41	1.72	1.14	0	0	0	0	0.57	0.57	0	0	0	0.57
CO2	61.71	1.85	1.22	0	0	0	0.61	0	0.61	0	0	0	0.61
CO3	60.38	1.81	1.2	0	0	0	0	0.6	0.6	0	0	0	0.6
CO4	68.53	1.37	1.37	0	0	0	0.68	0.68	0.68	0	0	0	0.68
AVERAGE	62.01	1.69	1.23	0.00	0.00	0.00	0.65	0.62	0.62	0.00	0.00	0.00	0.62
												FINAL ATTAINMENT LEVEL	0.94

Sub Code: 18CV56 HIGHWAY ENGNINNERING V TH SEM PRAKASH J

SL No.	USN NO	Name of the Student	IA1		IA2			IA3		ASSIGNMENT					40 MAR	CIE Marks				SIE MARKS				60 MARKS	TOTAL COS MARKS				COS PERCENTAGE			
			CO1-30	TOTAL	CO2-15	CO3-15	TOTAL	CO4-30	TOTAL	CO1-2	CO2-2	CO3-2	CO4-2	TOTAL	CIE	CO1	CO2	CO3	CO4	CO1	CO2	CO3	CO4	SIE	CO1	CO2	CO3	CO4	CO1=47.5	CO2=32.5	CO3=32.5	CO4=47.5
1	1SV19CV006	Arvind Sharma Kakchingtabam	19	19	7	8	15	14	14	2.5	2.5	2.5	2.5	10	26	21.5	9.5	10.5	16.5	3.5	3.5	3.5	3.5	14	25	13	14	20	52.63	40.00	43.08	42.11
2	1SV20CV001	Adarsha Sing Okram	25	25	15	15	30	30	30	2.5	2.5	2.5	2.5	10	38.33	27.5	17.5	17.5	32.5	10.5	10.5	10.5	10.5	42	38	28	28	43	80.00	86.15	86.15	90.53
3	1SV20CV002	Akash T R	0	0	10	8	18	8	8	2.5	2.5	2.5	2.5	10	18.67	2.5	12.5	10.5	10.5	0.25	0.25	0.25	0.25	1	2.75	12.75	10.75	10.75	5.79	39.23	33.08	22.63
4	1SV20CV003	Dipendra Kumar Pandit	10	10	3	3	6	18	18	2.5	2.5	2.5	2.5	10	21.33	12.5	5.5	5.5	20.5	9.5	9.5	9.5	9.5	38	22	15	15	30	46.32	46.15	46.15	63.16
5	1SV20CV005	Lakshmi G V	23	23	15	14	29	29	29	2.5	2.5	2.5	2.5	10	37	25.5	17.5	16.5	31.5	9.5	9.5	9.5	9.5	38	35	27	26	41	73.68	83.08	80.00	86.32
6	1SV20CV006	Mahalakshmi B	0	0	15	12	27	17	17	2.5	2.5	2.5	2.5	10	24.67	2.5	17.5	14.5	19.5	6.5	6.5	6.5	6.5	26	9	24	21	26	18.95	73.85	64.62	54.74
7	1SV20CV007	Pankaj Varma	20	20	10	10	20	23	23	2.5	2.5	2.5	2.5	10	31	22.5	12.5	12.5	25.5	6	6	6	6	24	28.5	18.5	18.5	31.5	60.00	56.92	56.92	66.32
8	1SV20CV008	Pramila S	28	28	14	14	28	30	30	2.5	2.5	2.5	2.5	10	38.67	30.5	16.5	16.5	32.5	12.75	12.75	12.75	12.75	51	43.25	29.25	29.25	45.25	91.05	90.00	90.00	95.26
9	1SV20CV009	Sanjana D M	30	30	15	14	29	30	30	2.5	2.5	2.5	2.5	10	39.67	32.5	17.5	16.5	32.5	12.25	12.25	12.25	12.25	49	44.75	29.75	28.75	44.75	94.21	91.54	88.46	94.21
10	1SV20CV010	Shwetha. P	24	24	10	10	20	24	24	2.5	2.5	2.5	2.5	10	32.67	26.5	12.5	12.5	26.5	7.25	7.25	7.25	7.25	29	33.75	19.75	19.75	33.75	71.05	60.77	60.77	71.05
11	1SV20CV011	Siddartha K R	0	0	9	8	17	21	21	2.5	2.5	2.5	2.5	10	22.67	2.5	11.5	10.5	23.5	0.5	0.5	0.5	0.5	2	3	12	11	24	6.32	36.92	33.85	50.53
12	1SV20CV014	Yamuna M	20	20	0	0	0	27	27	2.5	2.5	2.5	2.5	10	25.67	22.5	2.5	2.5	29.5	2.75	2.75	2.75	2.75	11	25.25	5.25	5.25	32.25	53.16	16.15	16.15	67.89
13	1SV20CV015	Yashwanth Kumar T	26	26	14	14	28	26	26	2.5	2.5	2.5	2.5	10	36.67	28.5	16.5	16.5	28.5	3.75	3.75	3.75	3.75	15	32.25	20.25	20.25	32.25	67.89	62.31	62.31	67.89
14	1SV21CV400	Sowmya v	27	27	14	15	29	29	29	2.5	2.5	2.5	2.5	10	38.33	29.5	16.5	17.5	31.5	9.75	9.75	9.75	9.75	39	39.25	26.25	27.25	41.25	82.63	80.77	83.85	86.84
		AVERAGE	18.00	18.00	10.79	10.36	21.14	23.29	23.29	2.50	2.50	2.50	2.50	10.00	30.81	20.50	13.29	12.86	25.79	6.77	6.77	6.77	6.77	27.07	27.27	20.05	19.63	32.55	57.41	61.70	60.38	68.53

CO-PO-PSO Mapping

	POs											
COS	1	2	3	4	5	6	7	8	9	10	11	12
CO1	3	2	0	0	0	0	1	1	0	0	0	1
CO2	3	2	0	0	0	1	0	1	0	0	0	1
CO3	3	2	0	0	0	0	1	1	0	0	0	1
CO4	2	2	0	0	0	1	1	1	0	0	0	1
Average	2.75	2	0	0	0	1	1	1	0	0	0	1
OVERALL MAPPING OF SUBJECT												1.43

CO-PO ATTAINMENT

		POs												
COS	% COS	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	57.41	1.72	1.14	0	0	0	0	0.57	0.57	0	0	0	0.57	0.91
CO2	61.71	1.85	1.22	0	0	0	0.61	0	0.61	0	0	0	0.61	0.98
CO3	60.38	1.81	1.2	0	0	0	0	0.6	0.6	0	0	0	0.6	0.96
CO4	68.53	1.37	1.37	0	0	0	0.68	0.68	0.68	0	0	0	0.68	0.91
Average	62.01	1.69	1.23	0.00	0.00	0.00	0.65	0.62	0.62	0.00	0.00	0.00	0.62	0.90
FINIAL ATTAINMENT														0.94

Course Instructor

HOD

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Principal

SHRIDEVI EDUCATION	**SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY** **SIRA ROAD, TUMKUR- 572 106.**

Academic Year	**:2022-23 (ODD Sem)**	**Faculty**	**: Mrs. Radhika T N**
Subject	**:** Quantity Surveying and Contract Management	**Semester**	**:** 7
Code	**:** 18CV71		

Course Outcomes	
CO1	Taking out quantities and work out the cost and preparation of abstract for the estimated cost for various civil engineering works.
CO2	Prepare detailed and abstract estimates for various road works, structural works and water supply and sanitary works.
CO3	Prepare the specifications and analyze the rates for various items of work.
CO4	Assess contract and tender documents for various construction works.

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

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ESTD:2002

Academic Year :2022-23 (ODD Sem) **Faculty** : Mrs. Radhika T N

Subject: Quantity Surveying and Contract Management	**Subject Code:** 18CV71

Course outcomes

CO1	Estimate the quantities of different items of work for roads and buildings
CO2	Develops specification for civil engineering works and prepare rate analysis
CO3	Interpret contract document and international construction works.
CO4	Develop valuation reports of buildings.

CO-PO-PSO Mapping

CO	POs												PSOs		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	2				1	1	1			2			1	
CO2	3					1		2			2	1		1	
CO3	2	2				1		2			2	1		1	
CO4	2	2				1		2			2	1		1	
Average	2.5	2				1	1	1.75			2	1		1	

CO-PO-PSO Attainment

CO	POs												PSOs		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	1.9	1.3				0.6	0.6	0.6			1.3				
CO2	2.0					0.7		1.3			1.3	0.7			
CO3	1.4	1.4				0.7		1.4			1.4	0.7			
CO4	1.4	1.4				0.7		1.4			1.4	0.7			
Average	1.7	1.3				0.7	0.6	1.2			1.3	0.7			

Radhika
Course Instructor

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SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF CIVIL ENGINEERING

SUBJECT	DESIGN OF RCC AND STEEL STRUCTURES	SUBJECT CODE	18CV72

COURSE OUTCOME

CO1. Students will acquire the basic knowledge in design of RCC and Steel Structures.

CO2. Students will have the ability to follow design procedures as per codal provisions and skills to arrive at structurally safe RC and Steel members.

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

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PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

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PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY		
FACULTY NAME	Mr. MANOGNA H N		
BRANCH	CV	ACADEMIC YEAR	2022-23
COURSE	B.E	SEMESTER	VII
SUBJECT	DESIGN OF RCC AND STEEL STRUCTURES	SUBJECT CODE	18CV72

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2	3					2				1
CO2	2	2	3					2				1
AVERAGE	2	2	3					2				1
OVERALL MAPPING OF SUBJECT												2

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	58.89	1.18	1.18	1.77					1.18				0.59
CO2	58.89	1.18	1.18	1.77					1.18				0.59
AVERAGE	58.89	1.18	1.18	1.77					1.18				0.59
FINAL ATTAINMENT LEVEL													1.18

CONCLUSION:

I. 60% IS THE EXPECTED ATTAINMENT FOR THE ACADEMIC YEAR 2022-2023.

II. 58.89% OF ATTAINMENT IS REACHED BY THE STUDENTS.

HOD
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SIET, TUMKUR-6.

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USN	STUDENT NAME	IA 1	IA 2	IA 3	AVG IA	A 1	A 2	A 3	AVG A	CO1+ CO2 30marks	CO1+ CO2	CO1+ CO2
1SV18CV002	Amruta Varshini P Barki	4	26	26	19	10	10	10	10	4	26	26
1SV18CV009	Nayana D T	0	19	23	14	10	10	10	10	0	19	23
1SV18CV010	Darshan K V	23	23	23	23	10	10	10	10	23	23	23
1SV18CV012	Devika K Patil	23	19	23	21	10	10	10	10	23	19	23
1SV18CV020	Kavya B K	11	23	29	21	10	10	10	10	11	23	29
1SV18CV023	Nagalakshmi	19	23	30	24	10	10	10	10	19	23	30
1SV18CV031	Shivamurthy S V	26	26	26	26	10	10	10	10	26	26	26
1SV18CV033	Srinivas J	19	23	23	21	10	10	10	10	19	23	23
1SV18CV035	Teja KG	8	23	23	18	10	10	10	10	8	23	23
1SV18CV037	Vitthal Rudrappa Hanamannavar	19	26	23	23	10	10	10	10	19	26	23
1SV19CV001	Aliya Tabassum	0	23	26	16	10	10	10	10	0	23	26
1SV19CV002	Amulya P	0	25	11	12	10	10	10	10	0	25	11
1SV19CV003	Anil B Koli	0	0	0	0	10	10	10	10	0	0	0
1SV19CV004	Anithalakshmi	19	29	26	25	10	10	10	10	19	29	26
1SV19CV005	Appuyadav E	15	23	15	18	10	10	10	10	15	23	15
1SV19CV007	Avinash Naik S	0	19	19	13	10	10	10	10	0	19	19
1SV19CV008	Dileep B O	0	15	15	10	10	10	10	10	0	15	15
1SV19CV009	Govidaraju N	23	0	23	15	10	10	10	10	23	0	23
1SV19CV010	Harish Kumar B	29	30	30	30	10	10	10	10	29	30	30
1SV19CV012	Kiran Kumar K S	26	26	26	26	10	10	10	10	26	26	26
1SV19CV013	Lakshmi K H	29	30	29	29	10	10	10	10	29	30	29
1SV19CV014	Lekhana K S	15	11	19	15	10	10	10	10	15	11	19
1SV19CV015	Manoranjan T H	11	29	26	22	10	10	10	10	11	29	26
1SV19CV016	Monisha.B.P	15	23	15	18	10	10	10	10	15	23	15
1SV19CV017	Nandan.C.R	23	26	26	25	10	10	10	10	23	26	26
1SV19CV018	Praveenkumar	15	23	23	20	10	10	10	10	15	23	23
1SV19CV019	Pavan Kumar G	23	15	26	21	10	10	10	10	23	15	26
1SV19CV020	Praveen G.S	8	23	23	18	10	10	10	10	8	23	23
1SV19CV021	Rakesh Gowda T J	26	19	25	23	10	10	10	10	26	19	25
1SV19CV024	Shivanand Helawar	0	23	15	13	10	10	10	10	0	23	15
1SV19CV025	Shivapadma Basanal	8	15	4	9	10	10	10	10	8	15	4
1SV19CV027	Sudeep R	2	15	15	11	10	10	10	10	2	15	15
1SV19CV028	Surya M N	0	23	23	15	10	10	10	10	0	23	23
1SV19CV029	Sushmitha R	19	26	15	20	10	10	10	10	19	26	15
1SV19CV030	Tarun D Hotakar	29	23	15	22	10	10	10	10	29	23	15
1SV19CV031	Thriveni S	30	29	29	29	10	10	10	10	30	29	29
1SV19CV032	Kushal R	0	15	15	10	10	10	10	10	0	15	15
1SV20CV400	Gagana N	0	15	15	10	10	10	10	10	0	15	15
1SV20CV401	Madhu N B	10	0	10	7	10	10	10	10	10	0	10
1SV20CV402	Rajeshwari Madiwalar	19	29	26	25	10	10	10	10	19	29	26
1SV20CV403	Rakesh L P	11	23	23	19	10	10	10	10	11	23	23

	1	2	3	1	2	3	1	2	3	A 1 (CO1+2)	A 2 (CO1+2)	A 3 (CO1+2)		
19	5			35				35		10	10	10	36	67.92
14	0			25			30			10	10	10	26	54.03
23	30			30				30		10	10	10	0	54.17
21	30			25			30			10	10	10	23	64.86
21	15			30				38		10	10	10	39	72.92
24	25			30			40			10	10	10	21	67.92
26	35				35			35		10	10	10	30	77.08
21	25			30			30			10	10	10	0	52.08
18	10			30			30			10	10	10	5	48.61
23	25				35			30		10	10	10	0	54.17
16				30			35			10	10	10	3	45.42
12				33			15			10	10	10	27	51.67
0										10	10	10	0	16.67
25	25			39			35			10	10	10	30	74.58
18	20			30			20			10	10	10	0	45.83
13				25				25		10	10	10	29	53.61
10				20			20			10	10	10	0	33.33
15	30						30			10	10	10	11	47.78
30	38			40				40		10	10	10	29	81.94
26	35				35			35		10	10	10	25	74.31
29	38			40				38		10	10	10	51	93.33
15	20				15			25		10	10	10	39	63.33
22	15			38				35		10	10	10	30	70.00
18	20				30			20		10	10	10	21	57.50
25	30				35			35		10	10	10	36	78.33
20	20			30			30			10	10	10	36	70.00
21	30				20			35		10	10	10	21	63.75
18	10			30			30			10	10	10	27	60.83
23	35			25				33		10	10	10	30	72.08
13					30		20			10	10	10	21	49.17
9	10			20				5		10	10	10	0	31.25
11	2			20			20			10	10	10	21	45.83
15				30			30			10	10	10	9	46.67
20	25			35			20			10	10	10	56	81.11
22	38			30			20			10	10	10	24	66.67
29	40			38				38		10	10	10	29	81.11
10				20				20		10	10	10	3	35.00
10					20			20		10	10	10	35	52.78
7	13							13		10	10	10	2	28.61
25	25			39				35		10	10	10	30	74.58
19	15			30			30			10	10	10	10	53.47

58.89

0.59

1	0.59
2	1.18
3	1.77

Course Instructor

HOD

HOD
Dept. of Civil Engineering
SIET, TUMKUR - 6.

Principal

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(Approved by AICTE, New Delhi. Recognised by Govt. of Karnataka and Affiliated to Visvesvaraya Technological University, Belagavi)
ESTD:2002
20 YEARS Academic Excellence

Subject:AIR POLLUTION AND CONTROL	SubjectCode:18CV732

CourseOutcomes

CO1	Identify the major sources of air pollution and understand their effects on health and environment.
CO2	Evaluate the dispersion of air pollutants in the atmosphere and to develop air quality models.
CO3	Ascertain and evaluate sampling techniques for atmospheric and stack pollutants.
CO4	Choose and design control techniques for particulate and gaseous emissions.

CO-PO-PSOMapping

Cos	Pos												PSOs		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	2	1				2	2	2		1		1			
CO2	2	1				2	2	2		1		1			
CO3	2	1				2	2	2		1		1			
CO4	2	1				2	2	2		1		1			
Average	**2**	**1**				**2**	**2**	**2**		**1**		**1**			

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	**52.25**	1.57	1.05	0	0	0	0	0.52	0.52	0	0	0.52	0.52
CO2	**59.77**	1.79	1.2	0	0	0	0.6	0	0.6	0	0	0.6	0.6
CO3	**65.44**	1.96	1.31	0	0	0	0	0.65	0.65	0	0	0.65	0.65
CO4	**64.58**	1.29	1.29	0	0	0	0.65	0.65	0.65	0	0	0.65	0.65
AVERAGE	**60.51**	**1.65**	**1.21**	**0.00**	**0.00**	**0.00**	**0.31**	**0.46**	**0.61**	**0.00**	**0.00**	**0.61**	**0.61**
											FINAL ATTAINMENT LEVEL		**1.02**

Sub Code: 18CV AIR POLLUTION AND CONTROL VII TH SEM NIRANJANI B

Sl. No.	USN NO	Name of the Student	IA1		IA2			IA3			ASSIGNMENT					CIE MARKS				SIE MARKS				60 MARKS	COS PERCENTAGE			
			CO1	TOTAL	CO2	CO3	TOTAL	CO3	CO4	TOTA	CO1	CO2	CO3	CO4	TOTAL	CO1	CO2	CO3	CO4	CO1	CO2	CO3	CO4	SIE	CO1=47.5	CO2=32.5	CO3=47.5	CO4=32.5
1	1SV18CV002	Amruta Varshini P Barki	25	25	7	7	14	10	14	24	2.5	2.5	2.5	2.5	10	27.5	9.5	19.5	16.5	9.5	9.5	9.5	9.5	38	77.89	58.46	61.05	80.00
2	1SV18CV009	Nayana D T	21	21	12	12	24	13	10	23	2.5	2.5	2.5	2.5	10	23.5	14.5	27.5	12.5	9.25	9.25	9.25	9.25	37	68.95	73.08	77.37	66.92
3	1SV18CV010	Darshan K V	0	0	13	13	26	14	15	29	2.5	2.5	2.5	2.5	10	2.5	15.5	29.5	17.5	8.25	8.25	8.25	8.25	33	22.63	73.08	79.47	79.23
4	1SV18CV012	Devika K Patil	18	18	10	10	20	14	15	29	2.5	2.5	2.5	2.5	10	20.5	12.5	26.5	17.5	6	6	6	6	24	55.79	56.92	68.42	72.31
5	1SV18CV020	Kavya B K	26	26	13	13	26	15	14	29	2.5	2.5	2.5	2.5	10	28.5	15.5	30.5	16.5	9.5	9.5	9.5	9.5	38	80.00	76.92	84.21	80.00
6	1SV18CV023	Nagalakshmi	27	27	13	13	26	14	14	28	2.5	2.5	2.5	2.5	10	29.5	15.5	29.5	16.5	7.25	7.25	7.25	7.25	29	77.37	70.00	77.37	73.08
7	1SV18CV031	Shivamurthy S V	26	26	14	14	28	14	15	29	2.5	2.5	2.5	2.5	10	28.5	16.5	30.5	17.5	9.5	9.5	9.5	9.5	38	80.00	80.00	84.21	83.08
8	1SV18CV033	Srinivas J	14	14	2	3	5	10	15	25	2.5	2.5	2.5	2.5	10	16.5	4.5	15.5	17.5	0	0	0	0	0	34.74	13.85	32.63	53.85
9	1SV18CV035	Teja KG	23	23	11	12	23	12	12	24	2.5	2.5	2.5	2.5	10	25.5	13.5	26.5	14.5	10	10	10	10	40	74.74	72.31	76.84	75.38
10	1SV18CV037	Vitthal Rudrappa Hanamannavar	23	23	8	8	16	14	14	28	2.5	2.5	2.5	2.5	10	25.5	10.5	24.5	16.5	0	0	0	0	0	53.68	32.31	51.58	50.77
11	1SV19CV001	Aliya Tabassum	0	0	7	8	15	11	12	23	2.5	2.5	2.5	2.5	10	2.5	9.5	21.5	14.5	7	7	7	7	28	20.00	50.77	60.00	66.15
12	1SV19CV002	Amulya P	12	12	11	12	13	15	14	29	2.5	2.5	2.5	2.5	10	14.5	13.5	29.5	16.5	6.5	6.5	6.5	6.5	26	44.21	61.54	75.79	70.77
13	1SV19CV003	Anil B Koli	0	0	10	10	20	8	9	17	2.5	2.5	2.5	2.5	10	2.5	12.5	20.5	11.5	2.5	2.5	2.5	2.5	10	10.53	46.15	48.42	43.08
14	1SV19CV004	Anithalakshmi	28	28	13	13	26	14	15	29	2.5	2.5	2.5	2.5	10	30.5	15.5	29.5	17.5	9	9	9	9	36	83.16	75.38	81.05	81.54
15	1SV19CV005	Appuyadav E	20	20	10	7	17	11	13	24	2.5	2.5	2.5	2.5	10	22.5	12.5	20.5	15.5	0	0	0	0	0	47.37	38.46	43.16	47.69
16	1SV19CV007	Avinash Naik S	17	17	12	11	23	15	14	29	2.5	2.5	2.5	2.5	10	19.5	14.5	28.5	16.5	8.75	8.75	8.75	8.75	35	59.47	71.54	78.42	77.69
17	1SV19CV008	Dileep B O	12	12	9	6	15	12	12	24	2.5	2.5	2.5	2.5	10	14.5	11.5	20.5	14.5	7.75	7.75	7.75	7.75	31	46.84	59.23	59.47	68.46
18	1SV19CV009	Govidaraju N	0	0	8	11	19	15	11	21	2.5	2.5	2.5	2.5	10	2.5	10.5	28.5	13.5	8.75	8.75	8.75	8.75	35	23.68	59.23	78.42	68.46
19	1SV19CV010	Harish Kumar B	28	28	11	13	24	14	15	29	2.5	2.5	2.5	2.5	10	30.5	13.5	29.5	17.5	11	11	11	11	44	87.37	75.38	85.26	87.69
20	1SV19CV012	Kiran Kumar K S	30	30	13	16	29	15	14	29	2.5	2.5	2.5	2.5	10	32.5	15.5	33.5	16.5	10.5	10.5	10.5	10.5	42	90.53	80.00	92.63	83.08
21	1SV19CV013	Lakshmi K H	29	29	13	15	28	15	14	29	2.5	2.5	2.5	2.5	10	31.5	15.5	32.5	16.5	9.5	9.5	9.5	9.5	38	86.32	76.92	88.42	80.00
22	1SV19CV014	Lekhana K S	26	26	14	15	29	9	11	20	2.5	2.5	2.5	2.5	10	28.5	16.5	26.5	13.5	9.75	9.75	9.75	9.75	39	80.53	80.77	76.32	71.54
23	1SV19CV015	Manoranjan T H	22	22	8	12	20	15	14	29	2.5	2.5	2.5	2.5	10	24.5	10.5	29.5	16.5	9	9	9	9	36	70.53	60.00	81.05	78.46
24	1SV19CV016	Monisha.B.P	18	18	5	10	15	12	11	23	2.5	2.5	2.5	2.5	10	20.5	7.5	24.5	13.5	8.25	8.25	8.25	8.25	33	60.53	48.46	68.95	66.92
25	1SV19CV017	Nandan.C.R	25	25	14	15	29	12	14	26	2.5	2.5	2.5	2.5	10	27.5	16.5	29.5	16.5	6.75	6.75	6.75	6.75	27	72.11	71.54	76.32	71.54
26	1SV19CV018	Praveenkumar	22	22	10	10	20	15	14	29	2.5	2.5	2.5	2.5	10	24.5	12.5	27.5	16.5	8.5	8.5	8.5	8.5	34	69.47	64.62	75.79	76.92
27	1SV19CV019	Pavan Kumar G	21	21	6	10	16	10	12	22	2.5	2.5	2.5	2.5	10	23.5	8.5	22.5	14.5	8.75	8.75	8.75	8.75	35	67.89	53.08	65.79	71.54
28	1SV19CV020	Praveen G.S	23	23	11	10	21	11	13	24	2.5	2.5	2.5	2.5	10	25.5	13.5	23.5	15.5	7.25	7.25	7.25	7.25	29	68.95	63.85	64.74	70.00
29	1SV19CV021	Rakesh Gowda T J	28	28	5	15	20	14	15	29	2.5	2.5	2.5	2.5	10	30.5	7.5	31.5	17.5	6.75	6.75	6.75	6.75	27	78.42	43.85	80.53	74.62
30	1SV19CV024	Shivanand Helawar	23	23	10	9	19	15	14	29	2.5	2.5	2.5	2.5	10	25.5	12.5	26.5	16.5	9.75	9.75	9.75	9.75	39	74.21	68.46	76.32	80.77
31	1SV19CV025	Shivapadma Basanal	0	0	13	10	23	5	10	15	2.5	2.5	2.5	2.5	10	2.5	15.5	17.5	12.5	0.25	0.25	0.25	0.25	1	5.79	48.46	37.37	39.23
32	1SV19CV027	Sudeep R	22	22	2	10	12	15	14	29	2.5	2.5	2.5	2.5	10	24.5	4.5	27.5	16.5	6.25	6.25	6.25	6.25	25	64.74	33.08	71.05	70.00
33	1SV19CV028	Surya M N	14	14	5	10	15	9	13	22	2.5	2.5	2.5	2.5	10	16.5	7.5	21.5	15.5	2.75	2.75	2.75	2.75	11	40.53	31.54	51.05	56.15
34	1SV19CV029	Sushmitha R	29	29	15	14	29	15	15	30	2.5	2.5	2.5	2.5	10	31.5	17.5	31.5	17.5	8.75	8.75	8.75	8.75	35	84.74	80.77	84.74	80.77
35	1SV19CV030	Tarun D Hotakar	21	21	10	12	22	15	10	25	2.5	2.5	2.5	2.5	10	23.5	12.5	29.5	12.5	10.25	10.25	10.25	10.25	41	71.05	70.00	83.68	70.00
36	1SV19CV031	Thriveni S	28	28	11	15	26	14	15	29	2.5	2.5	2.5	2.5	10	30.5	13.5	31.5	17.5	8.75	8.75	8.75	8.75	35	82.63	68.46	84.74	80.77
37	1SV19CV032	Kushal R	0	0	8	10	18	9	8	17	2.5	2.5	2.5	2.5	10	2.5	10.5	21.5	10.5	7	7	7	7	28	20.00	53.85	60.00	53.85
38	1SV20CV400	Gagana N	0	0	7	10	17	10	7	17	2.5	2.5	2.5	2.5	10	2.5	9.5	22.5	9.5	6	6	6	6	24	17.89	47.69	60.00	47.69
39	1SV20CV401	Madhu N B	0	0	6	5	11	13	15	27	2.5	2.5	2.5	2.5	10	2.5	8.5	20.5	17.5	7.5	7.5	7.5	7.5	30	21.05	49.23	58.95	76.92
40	1SV20CV402	Rajeshwari Madiwalar	26	26	13	13	26	14	15	29	2.5	2.5	2.5	2.5	10	28.5	15.5	29.5	17.5	8.25	8.25	8.25	8.25	33	77.37	73.08	79.47	79.23
41	1SV20CV403	Rakesh L P	24	24	11	12	23	15	13	27	2.5	2.5	2.5	2.5	10	26.5	13.5	29.5	15.5	6.75	6.75	6.75	6.75	27	70.00	62.31	76.32	68.46
		average																						7.26	29.05	59.11	60.36	70.67	70.11

Course Instructor

HOD

HOD
Dept. of Civil Engineering
SIET, TUMKUR - 6.

PRINCIPAL
SIET, TUMKUR.
Principal

Subject:URBAN TRANSPORT PLANNING	**SubjectCode:**18CV745
CourseOutcomes	
CO1	Design, conduct and administer surveys to provide the data required for transportation planning.
CO2	Supervise the process of data collection about travel behavior and analyze the data for use in transportplanning.
CO3	Develop and calibrate modal split, trip generation rates for specific types of land use developments.
CO4	Adopt the steps that are necessary to complete a long-term transportation plan.

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability,statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

Sri Shridevi Charitable Trust (R.)
SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY
Sira Road, Tumkur - 572 106, Karnataka, India.
SHRIDEVI EDUCATION
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(Approved by AICTE, New Delhi. Recognised by Govt. of Karnataka and Affiliated to Visvesvaraya Technological University, Belagavi)
ESTD:2002

Subject: URBAN TRANSPORT PLANNING	SubjectCode:18CV745

Course Outcomes

CO1	Design, conduct and administer surveys to provide the data required for transportation planning.
CO2	Supervise the process of data collection about travel behavior and analyze the data for use in transport planning.
CO3	Develop and calibrate modal split, trip generation rates for specific types of land use developments.
CO4	Adopt the steps that are necessary to complete a long-term transportation plan.

CO-PO-PSO Mapping

COs	POs												PSOs		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	2					1	1			1	1			
CO2	3	2				1		1			1	1			
CO3	3	2					1	1			1	1			
CO4	2	2				1	1	1			1	1			
Average	2.75	2				0.25	0.75	1			1	1			

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	52.25	1.57	1.05	0	0	0	0	0.52	0.52	0	0	0.52	0.52
CO2	59.77	1.79	1.2	0	0	0	0.6	0	0.6	0	0	0.6	0.6
CO3	65.44	1.96	1.31	0	0	0	0	0.65	0.65	0	0	0.65	0.65
CO4	64.58	1.29	1.29	0	0	0	0.65	0.65	0.65	0	0	0.65	0.65
AVERAGE	60.51	1.65	1.21	0.00	0.00	0.00	0.31	0.46	0.61	0.00	0.00	0.61	0.61
											FINAL ATTAINMENT LEVEL		0.87

Sub Code: 18CV74 URBAN TRANSPORT PLANNING VII TH SEM PRAKASH J

Sl. No.	USN NO	Name of the Student	IA1		IA2			IA3			ASSIGNMENT					CIE MARKS				SIE MARKS				60 MARKS	COS PERCENTAGE			
			CO1	TOTAL	CO2	CO3	TOTAL	CO3	CO4	TOTAL	CO1	CO2	CO3	CO4	TOTAL	CO1	CO2	CO3	CO4	CO1	CO2	CO3	CO4	SIE	CO1=47.5	CO2=32.5	CO3=47.5	CO4=32.5
1	1SV18CV002	Amruta Varshini P Barki	12	12	7	10	17	4	5	9	2.5	2.5	2.5	2.5	10	14.5	9.5	16.5	7.5	10.5	10.5	10.5	10.5	42	52.63	61.54	56.84	55.38
2	1SV18CV009	Nayana D T	18	18	7	7	14	10	10	20	2.5	2.5	2.5	2.5	10	20.5	9.5	19.5	12.5	9.75	9.75	9.75	9.75	39	63.68	59.23	61.58	68.46
3	1SV18CV010	Darshan K V	0	0	14	15	29	15	11	26	2.5	2.5	2.5	2.5	10	2.5	16.5	32.5	13.5	2.75	2.75	2.75	2.75	11	11.05	59.23	74.21	50.00
4	1SV18CV012	Devika K Patil	22	22	10	13	23	14	12	26	2.5	2.5	2.5	2.5	10	24.5	12.5	29.5	14.5	9.25	9.25	9.25	9.25	37	71.05	66.92	81.58	73.08
5	1SV18CV020	Kavya B K	24	24	13	13	26	12	14	26	2.5	2.5	2.5	2.5	10	26.5	15.5	27.5	16.5	8.75	8.75	8.75	8.75	35	74.21	74.62	76.32	77.69
6	1SV18CV023	Nagalakshmi	21	21	11	10	21	12	12	24	2.5	2.5	2.5	2.5	10	23.5	13.5	24.5	14.5	6.5	6.5	6.5	6.5	26	63.16	61.54	65.26	64.62
7	1SV18CV031	Shivamurthy S V	25	25	10	10	20	15	14	29	2.5	2.5	2.5	2.5	10	27.5	12.5	27.5	16.5	8.25	8.25	8.25	8.25	33	75.26	63.85	75.26	76.15
8	1SV18CV033	Srinivas J	26	26	10	6	16	5	10	15	2.5	2.5	2.5	2.5	10	28.5	12.5	13.5	12.5	0	0	0	0	0	60.00	38.46	28.42	38.46
9	1SV18CV035	Teja KG	20	20	5	6	11	13	10	23	2.5	2.5	2.5	2.5	10	22.5	7.5	21.5	12.5	7.5	7.5	7.5	7.5	30	63.16	46.15	61.05	61.54
10	1SV18CV037	Vitthal Rudrappa Hanamannavar	18	18	10	7	17	10	14	24	2.5	2.5	2.5	2.5	10	20.5	12.5	19.5	16.5	0	0	0	0	0	43.16	38.46	41.05	50.77
11	1SV19CV001	Aliya Tabassum	21	21	0	0	0	15	15	30	2.5	2.5	2.5	2.5	10	23.5	2.5	17.5	17.5	5.25	5.25	5.25	5.25	21	60.53	23.85	47.89	70.00
12	1SV19CV002	Amulya P	22	22	11	11	22	7	4	11	2.5	2.5	2.5	2.5	10	24.5	13.5	20.5	6.5	6.5	6.5	6.5	6.5	26	65.26	61.54	56.84	40.00
13	1SV19CV003	Anil B Koli	0	0	7	7	14	10	11	21	2.5	2.5	2.5	2.5	10	2.5	9.5	19.5	13.5	1	1	1	1	4	7.37	32.31	43.16	44.62
14	1SV19CV004	Anithalakshmi	25	25	10	10	20	15	15	30	2.5	2.5	2.5	2.5	10	27.5	12.5	27.5	17.5	7.5	7.5	7.5	7.5	30	73.68	61.54	73.68	76.92
15	1SV19CV005	Appuyadav E	13	13	7	7	14	10	10	20	2.5	2.5	2.5	2.5	10	15.5	9.5	19.5	12.5	0	0	0	0	0	32.63	29.23	41.05	38.46
16	1SV19CV007	Avinash Naik S	8	8	11	10	21	10	10	20	2.5	2.5	2.5	2.5	10	10.5	13.5	22.5	12.5	9.75	9.75	9.75	9.75	39	42.63	71.54	67.89	68.46
17	1SV19CV008	Dileep B O	8	8	10	10	20	10	4	14	2.5	2.5	2.5	2.5	10	10.5	12.5	22.5	6.5	9	9	9	9	36	41.05	66.15	66.32	47.69
18	1SV19CV009	Govidaraju N	9	9	10	11	21	13	13	26	2.5	2.5	2.5	2.5	10	11.5	12.5	26.5	15.5	12.5	12.5	12.5	12.5	50	50.53	76.92	82.11	86.15
19	1SV19CV010	Harish Kumar B	25	25	12	12	24	15	15	30	2.5	2.5	2.5	2.5	10	27.5	14.5	29.5	17.5	9.75	9.75	9.75	9.75	39	78.42	74.62	82.63	83.85
20	1SV19CV012	Kiran Kumar K S	23	23	14	10	24	8	10	18	2.5	2.5	2.5	2.5	10	25.5	16.5	20.5	12.5	9.75	9.75	9.75	9.75	39	74.21	80.77	63.68	68.46
21	1SV19CV013	Lakshmi K H	26	26	15	14	29	15	15	30	2.5	2.5	2.5	2.5	10	28.5	17.5	31.5	17.5	10.5	10.5	10.5	10.5	42	82.11	86.15	88.42	86.15
22	1SV19CV014	Lekhana K S	19	19	10	13	23	3	10	13	2.5	2.5	2.5	2.5	10	21.5	12.5	18.5	12.5	9.75	9.75	9.75	9.75	39	65.79	68.46	59.47	68.46
23	1SV19CV015	Manoranjan T H	14	14	10	10	20	10	8	18	2.5	2.5	2.5	2.5	10	16.5	12.5	22.5	10.5	5.25	5.25	5.25	5.25	21	45.79	54.62	58.42	48.46
24	1SV19CV016	Monisha.B.P	0	0	10	7	17	7	8	15	2.5	2.5	2.5	2.5	10	2.5	12.5	16.5	10.5	9.5	9.5	9.5	9.5	38	25.26	67.69	54.74	61.54
25	1SV19CV017	Nandan.C.R	19	19	10	8	18	10	14	24	2.5	2.5	2.5	2.5	10	21.5	12.5	20.5	16.5	8.25	8.25	8.25	8.25	33	62.63	63.85	60.53	76.15
26	1SV19CV018	Praveenkumar	20	20	8	10	18	14	15	29	2.5	2.5	2.5	2.5	10	22.5	10.5	26.5	17.5	6.5	6.5	6.5	6.5	26	61.05	52.31	69.47	73.85
27	1SV19CV019	Pavan Kumar G	14	14	2	10	12	10	11	21	2.5	2.5	2.5	2.5	10	16.5	4.5	22.5	13.5	9	9	9	9	36	53.68	41.54	66.32	69.23
28	1SV19CV020	Praveen G.S	11	11	10	12	22	10	11	21	2.5	2.5	2.5	2.5	10	13.5	12.5	24.5	13.5	9	9	9	9	36	47.37	66.15	70.53	69.23
29	1SV19CV021	Rakesh Gowda T J	16	16	10	11	21	11	10	21	2.5	2.5	2.5	2.5	10	18.5	12.5	24.5	12.5	10.75	10.75	10.75	10.75	43	61.58	71.54	74.21	71.54
30	1SV19CV024	Shivanand Helawar	19	19	10	15	25	15	15	30	2.5	2.5	2.5	2.5	10	21.5	12.5	32.5	17.5	10.75	10.75	10.75	10.75	43	67.89	71.54	91.05	86.92
31	1SV19CV025	Shivapadma Basanal	0	0	10	7	17	10	11	21	2.5	2.5	2.5	2.5	10	2.5	12.5	19.5	13.5	0	0	0	0	0	5.26	38.46	41.05	41.54
32	1SV19CV027	Sudeep R	11	11	3	10	13	10	9	19	2.5	2.5	2.5	2.5	10	13.5	5.5	22.5	11.5	5.25	5.25	5.25	5.25	21	39.47	33.08	58.42	51.54
33	1SV19CV028	Surya M N	0	0	10	5	15	10	8	18	2.5	2.5	2.5	2.5	10	2.5	12.5	17.5	10.5	6.5	6.5	6.5	6.5	26	18.95	58.46	50.53	52.31
34	1SV19CV029	Sushmitha R	26	26	14	14	28	14	15	29	2.5	2.5	2.5	2.5	10	28.5	16.5	30.5	17.5	9.75	9.75	9.75	9.75	39	80.53	80.77	84.74	83.85
35	1SV19CV030	Tarun D Hotakar	17	17	14	15	29	11	11	22	2.5	2.5	2.5	2.5	10	19.5	16.5	28.5	13.5	11.75	11.75	11.75	11.75	47	65.79	86.92	84.74	77.69
36	1SV19CV031	Thriveni S	21	21	10	15	25	13	13	26	2.5	2.5	2.5	2.5	10	23.5	12.5	30.5	15.5	12	12	12	12	48	74.74	75.38	89.47	84.62
37	1SV19CV032	Kushal R	0	0	10	14	24	10	4	14	2.5	2.5	2.5	2.5	10	2.5	12.5	26.5	6.5	7.25	7.25	7.25	7.25	29	20.53	60.77	71.05	42.31
38	1SV20CV400	Gagana N	0	0	5	6	11	10	12	22	2.5	2.5	2.5	2.5	10	2.5	7.5	18.5	14.5	6.75	6.75	6.75	6.75	27	19.47	43.85	53.16	65.38
39	1SV20CV401	Madhu N B	0	0	7	7	14	12	8	20	2.5	2.5	2.5	2.5	10	2.5	9.5	21.5	10.5	3	3	3	3	12	11.58	38.46	51.58	41.54
40	1SV20CV402	Rajeshwari Madiwalar	21	21	13	13	26	15	15	30	2.5	2.5	2.5	2.5	10	23.5	15.5	30.5	17.5	10.25	10.25	10.25	10.25	41	71.05	79.23	85.79	85.38
41	1SV20CV403	Rakesh L P	17	17	10	10	20	14	12	26	2.5	2.5	2.5	2.5	10	19.5	12.5	26.5	14.5	8	8	8	8	32	57.89	63.08	72.63	69.23
		average	14.90	14.90	9.51	10.02	19.54	11.15	11.07	22.22	2.50	2.50	2.50	2.50	10.00	17.40	12.01	23.67	13.57	7.41	7.41	7.41	7.41	29.66	52.25	59.77	65.44	64.58

CO-PO-PSO Mapping

	POs											
COS	1	2	3	4	5	6	7	8	9	10	11	12
CO1	3	2	0	0	0	0	1	1	0	0	1	1
CO2	3	2	0	0	0	1	0	1	0	0	1	1
CO3	3	2	0	0	0	0	1	1	0	0	1	1
CO4	2	2	0	0	0	1	1	1	0	0	1	1
Average	2.75	2	0	0	0	1	1	1	0	0	1	1
											OVERALL MAPPING OF SUBJECT	##########

CO-PO ATTAINMENT

		POs												
COS	% COS	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	52.25	1.57	1.05	0	0	0	0	0.52	0.52	0	0	0.52	0.52	0.78
CO2	59.77	1.79	1.2	0	0	0	0.6	0	0.6	0	0	0.6	0.6	0.90
CO3	65.44	1.96	1.31	0	0	0	0	0.65	0.65	0	0	0.65	0.65	0.98
CO4	64.58	1.29	1.29	0	0	0	0.65	0.65	0.65	0	0	0.65	0.65	0.83
Average	60.51	1.65	1.21	0.00	0.00	0.00	0.31	0.46	0.61	0.00	0.00	0.61	0.61	0.78
													FINIAL ATTAINMENT	0.87

Course Instructor

HOD

HOD
Dept. of Civil Engineering
SIET, TUMKUR - 6.

Principal

PRINCIPAL
SIET, TUMKUR.

COs & POs Mapping and Attainment
Even Semester
2022-2023

SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF CIVIL ENGINEERING

SUBJECT	PUBLIC HEALTH ENGINEERING	SUBJECT CODE	21CV43

COURSE OUTCOME

CO 1. Estimate average and peak water demand for a community.

CO2. Evaluate water quality and environmental significance of various parameters and plan suitable treatment system.

CO3. Design the different units of water treatment plant.

CO4. Understand and design the various units of wastewater treatment plant.

CO5. Acquire capability to conduct experiments and estimate the concentration of different parameters and compare the obtained results with the concerned guidelines and regulations

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY				
FACULTY NAME	Mr. ABHISHEK A P				
BRANCH	CIVIL ENGINEERING	ACADEMIC YEAR	2022-23		
COURSE	B.E	SEMESTER	4	SECTION	---
SUBJECT	PUBLIC HEALTH ENGINEERING			SUBJECT CODE	21CV43

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2			3	2					2	2
CO2	2	2			2	2					2	2
CO3	2	2			2	3					2	2
CO4	3	2			2	2					2	3
CO5	2	2			2	2					2	2
AVERAGE	2	2			3	2					2	2
OVERALL MAPPING OF SUBJECT												2.5

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	49.545	1.0	1.0				1.5	1.0					1.0
CO2	36.279	0.7	0.7				0.7	0.7					0.7
CO3	30.487	0.6	0.6				0.6	0.9					0.6
CO4	54.343	1.6	1.1				1.1	1.1					1.1
CO5	28.817	0.6	0.6				0.6	0.6					0.6
AVERAGE		0.9	0.8				0.9	0.9					0.8
FINAL ATTAINMENT LEVEL OF THE COURSE													0.9

18CV43 PUBLIC HEALTH ENGINEERING IV RD SEM ABHISHEK A P

Sl. No.	USN NO	Name of the Student	IA1	IA2	IA3						ASSIGNMENT						CIE MARKS					SIE MARKS					60 MARKS	CO PERCENTAGES				
			CO1	CO2	CO1	CO2	CO	CO4	CO5	TOTA	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	SIE	CO1	CO2	CO3	CO4	CO5
1	1SV21CV001	B S YASDON	16	0							2	2	2	2	2	10	18	2	2	2	2	8	8	8	8	8	40	41.9	16.1	45.5	45.5	45.5
2	1SV21CV002	BHASKARA B	25	25	18			10		28	2	2	2	2	2	10	27	27	2	20	2	2	2	2	2	3	11	46.8	46.8	18.2	100.0	22.7
3	1SV21CV003	CHANDAN KUMAR CHAUDHARY	36	30	20			15	9	44	2	2	2	2	2	10	38	32	2	22	11	5	5	5	6	6	27	69.4	59.7	31.8	66.7	77.3
4	1SV21CV004	DHARSHAN T J	22	12	19			13			2	2	2	2	2	10	24	2	2	21	2	6	6	7	7	7	33	36.6	36.4	40.9	66.7	21.4
5	1SV21CV005	HARSHITHA C G	29	16	20			15			2	2	2	2	2	10	31	2	2	22	2	3	3	3	3	2	14	41.5	22.7	22.7	59.5	9.5
6	1SV21CV007	LALAUMPUIA CHHAKCHHUAK	36	30							2	2	2	2	2	10	38	32	2	2	2	6	6	6	5	6	29	71.0	61.3	36.4	31.8	36.4
7	1SV21CV008	LIANDING RALTE	16	1	20			12	6	38	2	1.5	1.5	1.5	1.5	8	17.5	1.5	1.5	22	7.5	7	7	7	7	7	35	29.9	38.6	38.6	67.9	34.5
8	1SV21CV010	SHANI CHAUDHARY	21	16	16			12	7	35	2	2	2	2	2	10	23	2	2	18	9	8	8	8	7	7	38	37.8	45.5	45.5	59.5	38.1
9	1SV21CV011	SHREYAS M	33	9	18			10			0	0.4	0.4	0.4	0.4	2	33.4	0.4	0.4	18	0.4	6	6	6	6	6	30	48.0	29.1	29.1	58.1	15.2
10	1SV21CV014	TEJASWINI K	21	17	16			11		27	1	1	1	1	1	5	22	1	1	17	1	3	3	3	3	3	15	30.5	18.2	18.2	47.6	9.5
11	1SV21CV015	Y SHILPA	39	31	20			20	10	50	2	2	2	2	2	10	41	2	2	22	12	3	3	3	3	4	16	53.7	22.7	22.7	59.5	38.1
12	1SV22CV400	JEEVAN T K	39	18							2	2	2	2	2	10	41	20	2	2	2	6	6	6	5	5	28	75.8	41.9	36.4	31.8	31.8
13	1SV22CV401	RANJITH V	38	21							2	2	2	2	2	10	40	23	2	2	2							64.5	37.1	9.1	9.1	9.1
14	1SV22CV402	VIMALA T L	31	17	18			14		32	2	2	2	2	2	10	33	2	2	20	2	5	5	5	4	4	23	46.3	31.8	31.8	57.1	14.3
		AVERAGE	28.7	17.4	18.5					8	36	2	1.8	1.8	1.8	1.8	8.86	30.5	11	1.8	15	4.06	5.2	5.2	5.3	5.1	5.23	26.077	49.5	36.3	30.5	54.3	28.8

Abhishek
Course Instructor

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SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF CIVIL ENGINEERING

SUBJECT	ANALYSIS OF STRUCTURES	SUBJECT CODE	21CV44

COURSE OUTCOME

CO1. To determine slope and deflections in beams and trusses.

CO2. To analyse arches and cable structures.

CO3. To analyse different structural systems and interpret data using slope deflection method.

CO4. To apply matrix operations in analysing structures.

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY		
FACULTY NAME	Mr. MANOGNA H N		
BRANCH	CV	ACADEMIC YEAR	2022-23
COURSE	B.E	SEMESTER	IV
SUBJECT	ANALYSIS OF STRUCTURES	SUBJECT CODE	21CV44

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3										3
CO2	3	3										3
CO3	3	3										3
CO4	3	3										3
AVERAGE	3	3										3
OVERALL MAPPING OF SUBJECT												3

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	71.30	2.14	2.14	2.14					2.14				2.14
CO2	49.45	1.48	1.48	1.48					1.48				1.48
CO3	61.77	1.85	1.85	1.85					1.85				1.85
CO4	59.15	1.77	1.77	1.77					1.77				1.77
aVERAGE	60.42	1.81	1.81	1.81					1.81				1.81
Final attainment level													1.81

Subject: ANALYSIS OF STRUCTURES | Subject Code: 21CV44 | 2022-2023

SL.NO	USN	STUDENT NAME	IA 1		IA 2		IA 3			Avg	ASSIGNMENT+ QUIZ MARKS				SEE	SEE				TOTAL COS ATTAINNMENT				PERCENTAGE OF TOTAL COS ATTAINNMENT				
			CO3 10marks	CO2 10marks	CO1 10marks	CO3 10marks	CO1 6.7marks	CO3 6.7marks	CO4 6.7 marks		CO1	CO2	CO3	CO4		CO1 12.5	CO2 12.5	CO3 12.5	CO4 12.5	CO1 39.2 MARKS	CO2 32.5 MARKS	CO3 49.2 MARKS	CO4 29.2 MARKS	CO1	CO2	CO3	CO4	
1	1SV21CV001	B S YAZDAN	0	0	10	1	6.6	0	0	26	10	10	10	10	0	0	0	0	0	26.60	10.00	10.50	10.00	67.86	30.77	21.34	34.25	
2	1SV21CV002	BHASKARA B	9	5	10	5	6.6	5.0	5.0	43	10	10	10	10	18	4.5	4.5	4.5	4.5	31.10	19.50	33.45	19.45	79.34	60.00	67.99	66.61	
3	1SV21CV003	CHANDAN KUMAR CHAUDHARY	15	0	10	9	6.6	5.0	6.6	46	10	10	10	10	22	5.5	5.5	5.5	5.5	32.10	15.50	44.45	22.10	81.89	47.69	90.35	75.68	
4	1SV21CV004	DARSHAN T J	10	0	6	5	6.6	5.0	5.0	39	10	10	10	10	5	1.25	1.25	1.25	1.25	23.85	11.25	31.20	16.20	60.84	34.62	63.41	55.48	
5	1SV21CV005	HARSHITHA C G	8	8	6	5	6.6	3.3	3.3	39	10	10	10	10	11	2.75	2.75	2.75	2.75	25.35	20.25	28.55	16.05	64.67	62.31	58.03	54.97	
6	1SV21CV007	LALAWMPULA CHHAKCHHUAK	8	0	10	4	6.6	6.6	6.6	46	10	10	10	10	14	3.5	3.5	3.5	3.5	30.10	13.50	31.60	20.10	76.79	41.54	64.23	68.84	
7	1SV21CV008	LIANDINGPUIA RALTE	14	0	9	8	6.6	5.0	6.6	44	10	10	10	10	0	0	0	0	0	25.60	10.00	36.45	16.60	65.31	30.77	74.09	56.85	
8	1SV21CV010	SHANI CHAUDHARY	8	8	10	4	6.6	6.6	6.6	44	10	10	10	10	1	0.25	0.25	0.25	0.25	26.85	17.75	28.35	16.85	68.49	54.62	57.62	57.71	
9	1SV21CV011	SHREYAS M	8	8	10	5	6.6	5.0	6.6	44	10	10	10	10	0	0	0	0	0	26.60	17.50	27.45	16.60	67.86	53.85	55.79	56.85	
10	1SV21CV014	TEJASWINI K	8	10	10	0	5.6	5.0	6.6	40	10	10	10	10	0	0	0	0	0	25.61	20.00	22.45	16.60	65.33	61.54	45.63	56.85	
11	1SV21CV015	Y SHILPA	9	5	9	9	6.6	6.6	6.6	46	10	10	10	10	20	5	5	5	5	30.10	20.00	39.60	21.60	76.79	61.54	80.49	73.97	
12	1SV22CV400	JEEVAN T K	8	5	10	7	0.0	0.0	0.0	22	10	10	10	10	9	2.25	2.25	2.25	2.25	22.25	17.25	26.75	12.25	56.76	53.08	54.37	41.95	
13	1SV22CV401	RANJITH V	9	5	15	0	6.6	6.6	6.6	41	10	10	10	10	12	3	3	3	3	34.10	18.00	28.60	19.60	86.99	55.38	58.13	67.12	
14	1SV22CV402	VIMALA T L	10	0	10	5	6.6	6.6	3.3	41	10	10	10	10	18	4.5	4.5	4.5	4.5	31.10	14.50	36.10	17.80	79.34	44.62	73.37	60.96	
																								71.30	49.45	61.77	59.15	60.42
																								0.71	0.49	0.62	0.59	0.60
																								3	3	3	3	
																								2.14	1.48	1.85	1.77	1.81

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SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF CIVIL ENGINEERING

SUBJECT	DESIGN OF STEEL STRUCTURAL ELEMENTS	SUBJECT CODE	18CV61

COURSE OUTCOME

CO1. Possess knowledge of Steel Structures Advantages and Disadvantages of Steel structures, steel code provisions and plastic behaviour of structural steel.

CO2. Understand the Concept of Bolted and Welded connections.

CO3. Understand the Concept of Design of compression members, built-up columns and columns splices.

CO4. Understand the Concept of Design of tension members, simple slab base and gusseted base.

CO5. Understand the Concept of Design of laterally supported and un-supported steel beams.

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY			
FACULTY NAME	Mr. MANOGNA H N			
BRANCH	CV	ACADEMIC YEAR	2022-23	
COURSE	B.E	SEMESTER	VI	
SUBJECT	DESIGN OF STEEL STRUCTURAL ELEMENTS	SUBJECT CODE	18CV61	

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	3					3				3
CO2	3	3	3					3				3
CO3	3	3	3					3				3
CO4	3	3	3					3				3
CO5	3	3	3					3				3
AVERAGE	3	3	3					3				3
OVERALL MAPPING OF SUBJECT												3

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	63.37	1.90	1.90	1.90					1.90				1.90
CO2	75.20	2.26	2.26	2.26					2.26				2.26
CO3	39.91	1.20	1.20	1.20					1.20				1.20
CO4	84.14	2.52	2.52	2.52					2.52				2.52
CO5	62.82	1.88	1.88	1.88					1.88				1.88
aVERAGE	65.09	1.95	1.95	1.95					1.95				1.95
Final attainment level													1.89

CONCLUSION:

I. **60% IS THE EXPECTED ATTAINMENT FOR THE ACADEMIC YEAR 2022-2023.**

II. **65.09% OF ATTAINMENT IS REACHED BY THE STUDENTS**

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Subject: DESIGN OF RCC AND STEEL STRUCTURES			Subject Code: 18CV61							2022-23															
			IA 1		IA 2		IA 3			SEE					TOTAL COS ATTAINNMENT					PERCENTAGE OF TOTAL COS ATTAINNMENT					
SL.NO	USN	STUDENT NAME	CO1 15marks	CO2 15marks	CO3 15marks	CO4 15marks	CO4 15marks	CO5 15marks	SEE	CO1	CO2	CO3	CO4	CO5	CO1 29 MARKS	CO2 29 MARKS	CO3 29 MARKS	CO4 44 MARKS	CO5 29 MARKS	CO1	CO2	CO3	CO4	CO5	
1	1SV19CV006	ARVIND SHARMA KAKCHINGTABAM	12.75	10.50	0.00	0	0	8.25	4	0.8	0.8	0.8	0.8	0.8	15.55	13.30	2.80	2.80	11.05	53.62	45.86	9.66	6.36	38.10	
2	1SV20CV001	ADARSHA SING OKRAM	12	16.50	0.00	27	13.5	13.5	29	5.8	5.8	5.8	5.8	5.8	19.80	24.30	7.80	48.30	21.30	68.28	83.79	26.90	109.77	73.45	
3	1SV20CV002	AKASH T R	0	0.00	0.00	0	13.5	9	14	2.8	2.8	2.8	2.8	2.8	4.80	4.80	4.80	18.30	13.80	16.55	16.55	16.55	41.59	47.59	
4	1SV20CV003	DIPENDRA KUMAR PANDIT	15	15.00	0.00	28.5	13.5	10.5	26	5.2	5.2	5.2	5.2	5.2	22.20	22.20	7.20	49.20	17.70	76.55	76.55	24.83	111.82	61.03	
5	1SV20CV005	LAKSHMI G V	14.25	14.25	0.00	27	14.25	12.75	23	4.6	4.6	4.6	4.6	4.6	20.85	20.85	6.60	47.85	19.35	71.90	71.90	22.76	108.75	66.72	
6	1SV20CV006	MAHALAKSHMI B	12.75	23.25	13.50	11.25	13.5	12.75	9	1.8	1.8	1.8	1.8	1.8	16.55	27.05	17.30	28.55	16.55	57.07	93.28	59.66	64.89	57.07	
7	1SV20CV007	PANKAJ VARMA	14.25	9.75	0.00	15	13.5	9.75	21	4.2	4.2	4.2	4.2	4.2	20.45	15.95	6.20	34.70	15.95	70.52	55.00	21.38	78.86	55.00	
8	1SV20CV008	PRAMILA S	14.25	14.25	15.00	6	13.5	13.5	29	5.8	5.8	5.8	5.8	5.8	22.05	22.05	22.80	27.30	21.30	76.03	76.03	78.62	62.05	73.45	
9	1SV20CV009	SANJANA D M	15	17.25	15.00	15	15	12	42	8.4	8.4	8.4	8.4	8.4	25.40	27.65	25.40	40.40	22.40	87.59	95.34	87.59	91.82	77.24	
10	1SV20CV010	SHWETHA P	12	14.25	0.00	27	14.25	12	24	4.8	4.8	4.8	4.8	4.8	18.80	21.05	6.80	48.05	18.80	64.83	72.59	23.45	109.20	64.83	
11	1SV20CV011	SIDDARTHA K R	15	18.00	14.25	15	15	11.25	14	2.8	2.8	2.8	2.8	2.8	19.80	22.80	19.05	34.80	16.05	68.28	78.62	65.69	79.09	55.34	
12	1SV20CV014	YAMUNA M	0	27.00	0.00	28.5	15	12.75	14	2.8	2.8	2.8	2.8	2.8	4.80	31.80	4.80	48.30	17.55	16.55	109.66	16.55	109.77	60.52	
13	1SV20CV015	YASHWANTH KUMAR T	15	19.50	0.00	29.25	13.5	12.75	32	6.4	6.4	6.4	6.4	6.4	23.40	27.90	8.40	51.15	21.15	80.69	96.21	28.97	116.25	72.93	
14	1SV21CV400	SOUMYA V	14.25	15.00	13.50	15	15	13.5	33	6.6	6.6	6.6	6.6	6.6	22.85	23.60	22.10	38.60	22.10	78.79	81.38	76.21	87.73	76.21	
																				63.37	75.20	39.91	84.14	62.82	
																				0.63	0.75	0.40	0.84	0.63	
																				3	3	3	3	3	
																				1.90	2.26	1.20	2.52	1.88	

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	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY SIRA ROAD, TUMKUR- 572 106.

Academic Year	:2022-23 (EVEN Sem)	Faculty	: Dr. G MaheshKumar
Subject	: Applied Geotechnical Engineering	Semester	: 6
Code	: 18CV62		

Course Outcomes	
CO1	Ability to plan and execute geotechnical site investigation program for different civil engineering projects.
CO2	Understanding of stress distribution and resulting settlement beneath the loaded footings on sand and clayey soils.
CO3	Ability to estimate factor of safety against failure of slopes and to compute lateral pressure distribution behind earth retaining structures.
CO4	Ability to determine bearing capacity of soil and achieve proficiency in proportioning shallow isolated and combined footings for uniform bearing pressure.
CO5	Capable of estimating load carrying capacity of single and group of piles.

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

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CO-PO Mapping													
	POs												
COS	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	1	3	3	3	1	2	2	3	3	2	3	3	2.6
CO2	3	3	3	2	1	3	2	3	3	3	3	3	2.7
CO3	3	3	3	2	1	3	2	3	3	3	3	3	2.7
CO4	3	3	3	3	3	3	2	3	2	2	2	3	2.7
CO5	3	3	3	3	3	3	2	3	2	2	2	3	2.7
Average	3	3	3	2.6	1.8	2.8	2	3	2.6	2.4	2.6	3	2.7
												OVERALL MAPPING OF SUBJECT = 2.7	

CO-PO ATTAINMENT													
		POs											
COS	% COS	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	66	3	3	3	3	1	2	2	3	3	2	3	3	2.6
CO2	65	3	3	3	2	1	3	2	3	3	3	3	3	2.7
CO3	62	3	3	3	2	1	3	2	3	3	3	3	3	2.7
CO4	67	3	3	3	3	3	3	2	3	2	2	2	3	2.7
CO5	68	3	3	3	3	3	3	2	3	2	2	2	3	2.7
Average		3	3	3	2.6	1.8	2.8	2	3	2.6	2.4	2.6	3	2.7
													FINIAL ATTAINMENT	2.7

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ACADEMIC 2022-23 EVEN | AGE | 18CV62

SEM: VI Civil

	IA TEST 1			IA TEST 2					IA TEST 3								40						60		44	29	29	29	29					
USN	CO1	CO2	TOTAL	CO1	CO3	TOTAL	CO4	CO5	TOTAL	AVE(30)	CO1	CO2	CO3	CO4	CO5	Asmt	CIE	CO1	CO2	CO3	CO4	CO5	SEE	G TOT	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5
1SV20CV001	12	12	24	15	14	29	12	12	24	26	2	2	2	2	2	10	36	9	9	9	9	11	47	83	38	23	25	23	25	86.4	79.3	86.2	79.3	86.2
1SV20CV002	0	0	0	15	12	27	0	0	0	9	2	2	2	2	2	10	19	4	4	4	4	5	21	40	21	6	18	6	7	47.7	20.7	62.1	20.7	24.1
1SV20CV003	6	6	12	7	6	13	7	7	14	13	2	2	2	2	2	10	23	5	6	6	6	6	29	52	20	14	14	15	15	45.5	48.3	48.3	51.7	51.7
1SV20CV005	10	9	19	8	7	15	9	8	17	17	2	2	2	2	2	10	27	6	7	7	7	7	34	61	26	18	16	18	17	59.1	62.1	55.2	62.1	58.6
1SV20CV006	11	11	22	3	2	5	8	7	15	14	2	2	2	2	2	10	24	4	4	4	4	5	21	45	20	17	8	14	14	45.5	58.6	27.6	48.3	48.3
1SV20CV007	12	12	24	6	5	11	8	8	16	17	2	2	2	2	2	10	27	4	5	5	5	5	24	51	24	19	12	15	15	54.5	65.5	41.4	51.7	51.7
1SV20CV008	12	13	23	10	10	20	14	13	27	23	2	2	2	2	2	10	33	6	6	6	6	6	30	63	30	21	18	22	21	68.2	72.4	62.1	75.9	72.4
1SV20CV009	15	14	29	14	14	28	15	15	30	29	2	2	2	2	2	10	39	9	9	9	9	9	45	84	40	25	25	26	26	90.9	86.2	86.2	89.7	89.7
1SV20CV010	13	12	25	13	13	26	14	14	24	25	2	2	2	2	2	10	35	7	7	7	7	8	36	71	35	21	22	23	24	79.5	72.4	75.9	79.3	82.8
1SV20CV014	8	8	16	14	13	27	15	15	30	24	2	2	2	2	2	10	34	5	5	5	5	6	26	60	29	15	20	22	23	65.9	51.7	69	75.9	79.3
1SV20CV015	15	14	29	6	6	12	15	15	30	24	2	2	2	2	2	10	34	6	6	6	6	6	30	64	29	22	14	23	23	65.9	75.9	48.3	79.3	79.3
1SV21CV400	13	13	26	14	13	27	15	15	30	28	2	2	2	2	2	10	38	8	9	9	9	9	44	82	37	24	24	26	26	84.1	82.8	82.8	89.7	89.7
TOTAL	127	124	249	125	115	240	132	129	257	249	24	24	24	24	24	120	369	73	77	77	77	83	387	756	349	225	216	233	236	793	776	745	803	814
Students	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Average	11	10	20.75	10	9.6	20	11	11	21.42	20.75	2	2	2	2	2	10	30.8	6.1	6.4	6.4	6.4	6.9	32.3	63	29.1	19	18	19	20	66.1	64.7	62.1	67	67.8

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
CO1	3	3	3	3	1	2	2	3	3	2	3	3	2.6
CO2	3	3	3	2	1	3	2	3	3	3	3	3	2.7
CO3	3	3	3	2	1	3	2	3	3	3	3	3	2.7
CO4	3	3	3	3	3	3	2	3	2	2	2	3	2.7
CO5	3	3	3	3	3	3	2	3	2	2	2	3	2.7
	3	3	3	2.6	1.8	2.8	2	3	2.6	2.4	2.6	3	2.7

	%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
CO1	66	2	2	2	2	0.66	1.322	1.32	2	2	2	2	1.983	1.76
CO2	65	1.9	1.9	1.9	1.3	0.65	1.94	1.29	1.9	1.9	1.9	1.9	1.9397	1.72
CO3	62	1.9	1.9	1.9	1.2	0.62	1.862	1.24	1.9	1.9	1.9	1.9	1.8621	1.66
CO4	67	2	2	2	2	2.01	2.009	1.34	2	1.3	1.3	1.3	2.0086	1.79
CO5	68	2	2	2	2	2.03	2.034	1.36	2	1.4	1.4	1.4	2.0345	1.81
Average		2	2	2	1.7	1.19	1.833	1.31	2	1.7	1.7	1.7	1.9656	1.75

Course

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SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF CIVIL ENGINEERING

SUBJECT	HYDROLOGY AND IRRIGATION ENGINEERING	SUBJECT CODE	18CV63

COURSE OUTCOME

CO 1. Understand the importance of hydrology and its components.

CO2. Measure precipitation and analyze the data and analyze the losses in precipitation.

CO3. Estimate runoff and develop unit hydrographs.

CO4. Find the benefits and ill-effects of irrigation.

CO5. Find the quantity of irrigation water and frequency of irrigation for various crops.

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY				
FACULTY NAME	Mr. ABHISHEK A P				
BRANCH	CIVIL ENGINEERING	ACADEMIC YEAR	2022-23		
COURSE	B.E	SEMESTER	6	SECTION	---
SUBJECT	HYDROLOGY AND IRRIGATION ENGINEERING	SUBJECT CODE	18CV63		

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2										
CO2	3	3	2					2				
CO3	2	3	3					3				
CO4	2	3	3					2				
CO5	2	3										
AVERAGE	2	3										
OVERALL MAPPING OF SUBJECT												2.5

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	56.90	1.14	1.14										
CO2	76.14	2.28	2.28	2.28							1.14		
CO3	62.51	1.25	1.88	1.88							2.28		
CO4	56.94	1.14	1.71	1.71							1.14		
CO5	65.53	1.31	1.97										
AVERAGE		1.42	1.79	1.96							1.52		
FINAL ATTAINMENT LEVEL OF THE COURSE													1.66

Academic year	2022-23		SEM	VIII	Total strength		14		Subject		HYDROLOGY AND WATER RESOURCE EN					18CV63										
	IA TEST 1(40M)		IA TEST 2(40M)		IA TEST 3(30M)		ASSIGNEMENT / QUIZ(10 M)					SEE MARKS(60)					Total Cos ATTAINMENT					% of individual CO					SEE Tot
USN	CO1	CO2	CO2	CO3	CO4	CO5	CO1 2	CO2 2	CO3 2	CO4 2	CO5 2	CO1=5	CO2 =5	CO3 =5	CO4 =	CO5	CO1=4	CO2=4	CO3=4	CO4=2	CO5	CO1	CO2	CO3	CO4	CO5	60M
1SV19CV006	1	22		6	6	7	2	2	2	2	2	5	5	4	4	4	8	29	12	12	13	25.0	80.6	22.2	28.6	50.0	22
1SV20CV001	17	22	7	26	13	11	2	2	2	2	2	9	9	9	8	8	28	18	37	23	23	87.5	39.1	84.1	54.8	88.5	43
1SV20CV002	14	16		30			1	1	1	2	2	5	5	5	6	6	20	22	36	8	8	62.5	61.1	66.7	57.1	57.1	27
1SV20CV003		25		16	9	3	2	2	2	2	2	7	7	7	6	7	9	34	25	17	12	0.0	87.2	46.3	41.5	44.4	34
1SV20CV005	10	17		27	6	6	2	2	2	2	2	6	6	6	6	7	18	25	35	14	15	56.3	69.4	79.5	50.0	71.4	31
1SV20CV006	6	16	7	21	4	9	1	2	2	2	2	7	7	6	6	6	14	32	29	12	17	43.8	69.6	65.9	28.6	65.4	32
1SV20CV007	11	20		28	11	4	2	2	2	1	2	7	7	8	7	7	20	29	38	19	13	62.5	80.6	70.4	46.3	48.1	36
1SV20CV008	11	20	9	25	22	10	2	2	2	2	2	9	9	10	10	9	22	40	37	34	21	75.9	81.6	84.1	82.9	77.8	47
1SV20CV009	18	22		39	25	13	2	2	2	2	2	9	9	8	9	9	29	33	49	36	24	90.6	91.7	90.7	87.8	88.9	44
1SV20CV010	14	21		30	21	6	2	2	2	2	2	8	8	9	8	8	24	31	41	31	16	75.0	86.1	75.9	77.5	59.3	41
1SV20CV011	2	25		16	10	9	2	2	1	1	1	5	6	6	6	6	9	33	23	17	16	47.4	84.6	42.6	40.5	61.5	29
1SV20CV014	4	18	4	5	19	10	2	2	2	2	2	7	7	7	7	7	13	31	14	28	19	44.8	79.5	31.8	68.3	70.4	35
1SV20CV015	12	21		12	13	8	2	2	2	2	2	6	6	6	6	5	20	29	20	21	15	69.0	74.4	37.0	50.0	57.7	29
1SV21CV400	16	19		32	25	10	2	2	2	2	2	8	8	8	8	8	26	29	42	35	20	81.3	80.6	77.8	83.3	76.9	40
																						56.9	76.1	62.5	56.9	65.5	18.1

Course Instructor

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SHRIDEVI	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY SIRA ROAD, TUMKUR- 572 106.

Academic Year	:2022-23 (EVEN Sem)	Faculty	: Mr. Prakash J
Subject	: Railway, Harbours, Tunnelling & Airports	**Semester**	: 6
Code	: 18CV645		

	Course Outcomes
CO1	**Acquires capability of choosing alignment and also design geometric aspects of railway system, runway and taxiway.**
CO2	**Suggest and estimate the material quantity required for laying a railway track and also will be able to determine the hauling capacity of a locomotive.**
CO3	**Develop layout plan of airport, harbor, dock and will be able relate the gained knowledge to identify required type of visual and/or navigational aids for the same.**
CO4	**Apply the knowledge gained to conduct surveying, understand the tunneling activities.**

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

SHRIDEVI	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY SIRA ROAD, TUMKUR- 572 106.

CO-PO Mapping												
	POs											
COS	1	2	3	4	5	6	7	8	9	10	11	12
CO1	3	2	0	0	0	0	1	1	0	0	0	1
CO2	3	2	0	0	0	1	0	1	0	0	0	1
CO3	3	2	0	0	0	1	1	1	0	0	0	1
CO4	3	2	0	0	0	1	1	1	0	0	0	1
Average	3	2	0	0	0	1	1	1	0	0	0	1

OVERALL MAPPING OF SUBJECT = 1.5

CO-PO ATTAINMENT													
		POs											
COS	% COS	1	2	3	4	5	6	7	8	9	10	11	12
CO1	55.92	1.68	1.12	0	0	0	0	0.56	0.56	0	0	0	0.56	0.90
CO2	60.81	1.82	1.22	0	0	0	0.61	0	0.61	0	0	0	0.61	0.97
CO3	65.63	1.97	1.31	0	0	0	0.66	0.66	0.66	0	0	0	0.66	0.99
CO4	65.59	1.97	1.31	0	0	0	0.66	0.66	0.66	0	0	0	0.66	0.99
Average	61.99	1.86	1.24	0.00	0.00	0.00	0.64	0.63	0.62	0.00	0.00	0.00	0.62	0.93

FINIAL ATTAINMENT 0.96

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Course Instructor

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Sub Code: 18CV6 RAILWAY, HARBOR, TUNNEL & AIRPORT ENGINEERING 2022-23 EVEN VI TH SEM PRAKASH J

Sl. No.	USN NO	Name of the Student	IA1			IA2			IA3			ASSIGNMENT					CIE MARKS				SIE MARKS				60 MARKS	COS PERCENTAGE			
			CO1	CO2	TOTAL	CO2	CO3	TOTAL	CO3	CO4	TOTAL	CO1	CO2	CO3	CO4	TOTAL	CO1	CO2	CO3	CO4	CO1	CO2	CO3	CO4	SIE	CO1=32.5	CO2=47.5	CO3=47.5	CO4=32.5
1	1SV19CV006	Arvind Sharma Kakchingtabam	10	13	23	6	5	11	7	8	15	2.5	2.5	2.5	2.5	10	12.5	21.5	14.5	10.5	1.92	1.92	1.917	1.9167	7.667	44.36	49.30	34.56	38.21
2	1SV20CV001	Adarsha Sing Okram	14	15	29	8	9	17	15	14	29	2.5	2.5	2.5	2.5	10	16.5	25.5	26.5	16.5	8.75	8.75	8.75	8.75	35	77.69	72.11	74.21	77.69
3	1SV20CV002	Akash T R	0	0	0	7	9	16	10	10	20	2.5	2.5	2.5	2.5	10	2.5	9.5	21.5	12.5	2.75	2.75	2.75	2.75	11	16.15	25.79	51.05	46.92
4	1SV20CV003	Dipendra Kumar Pandit	0	7	7	7	7	14	10	6	16	2.5	2.5	2.5	2.5	10	2.5	16.5	19.5	8.5	7.92	7.92	7.917	7.9167	31.67	32.05	51.40	57.72	50.51
5	1SV20CV005	Lakshmi G V	12	13	25	10	10	20	12	15	27	2.5	2.5	2.5	2.5	10	14.5	25.5	24.5	17.5	9.75	9.75	9.75	9.75	39	74.62	74.21	72.11	83.85
6	1SV20CV006	Mahalakshmi B	4	5	9	9	10	19	13	12	25	2.5	2.5	2.5	2.5	10	6.5	16.5	25.5	14.5	7.08	7.08	7.083	7.0833	28.33	41.79	49.65	68.60	66.41
7	1SV20CV007	Pankaj Varma	10	6	16	12	10	22	7	10	17	2.5	2.5	2.5	2.5	10	12.5	20.5	19.5	12.5	9.42	9.42	9.417	9.4167	37.67	67.44	62.98	60.88	67.44
8	1SV20CV008	Pramila S	0	0	0	12	11	23	15	14	29	2.5	2.5	2.5	2.5	10	2.5	14.5	28.5	16.5	10.7	10.7	10.67	10.667	42.67	40.51	52.98	82.46	83.59
9	1SV20CV009	Sanjana D M	15	15	30	14	13	27	15	15	30	2.5	2.5	2.5	2.5	10	17.5	31.5	30.5	17.5	10.3	10.3	10.25	10.25	41	85.38	87.89	85.79	85.38
10	1SV20CV010	Shwetha. P	12	11	23	12	11	23	13	14	27	2.5	2.5	2.5	2.5	10	14.5	25.5	26.5	16.5	8.17	8.17	8.167	8.1667	32.67	69.74	70.88	72.98	75.90
11	1SV20CV011	Siddartha K R	8	6	14	5	2	7	7	8	15	2.5	2.5	2.5	2.5	10	10.5	13.5	11.5	10.5	6.5	6.5	6.5	6.5	26	52.31	42.11	37.89	52.31
12	1SV20CV014	Yamuna M	5	9	14	12	13	25	8	6	14	2.5	2.5	2.5	2.5	10	7.5	23.5	23.5	8.5	5.33	5.33	5.333	5.3333	21.33	39.49	60.70	60.70	42.56
13	1SV20CV015	Yashwanth Kumar T	10	8	18	12	14	26	14	15	29	2.5	2.5	2.5	2.5	10	12.5	22.5	30.5	17.5	9.67	9.67	9.667	9.6667	38.67	68.21	67.72	84.56	83.59
14	1SV21CV400	Sowmya v	14	15	29	15	14	29	12	11	23	2.5	2.5	2.5	2.5	10	16.5	32.5	28.5	13.5	7.25	7.25	7.25	7.25	29	73.08	83.68	75.26	63.85
		average	8.14	8.79	16.93	10.07	9.86	19.93	11.29	11.29	22.57	2.50	2.50	2.50	2.50	10.00	10.64	21.36	23.64	13.79	7.53	7.53	7.53	7.53	30.12	55.92	60.81	65.63	65.59

CO-PO-PSO Mapping

	POs											
COS	1	2	3	4	5	6	7	8	9	10	11	12
CO1	3	2	0	0	0	0	1	1	0	0	0	1
CO2	3	2	0	0	0	1	0	1	0	0	0	1
CO3	3	2	0	0	0	1	1	1	0	0	0	1
CO4	3	2	0	0	0	1	1	1	0	0	0	1
Average	3	2	0	0	0	1	1	1	0	0	0	1
OVERALL MAPPING OF SUBJECT = 1.5												

CO-PO ATTAINMENT

		POs											
COS	% CO	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	55.92	1.68	1.12	0	0	0	0	0.56	0.56	0	0	0	0.56	0.90
CO2	60.81	1.82	1.22	0	0	0	0.6	0	0.61	0	0	0	0.61	0.97
CO3	65.63	1.97	1.31	0	0	0	0.66	0.66	0.66	0	0	0	0.66	0.99
CO4	65.59	1.97	1.31	0	0	0	0.66	0.66	0.66	0	0	0	0.66	0.99
Average	61.99	1.86	1.24	0.00	0.00	0.00	0.64	0.63	0.62	0.00	0.00	0.00	0.62	0.93
FINIAL ATTAINMENT														0.96

Course Instructor

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Principal

SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF EEE

SUBJECT	Non conventional Energy Sources	SUBJECT CODE	18ME651

COURSE OUTCOME

CO1. To introduce the concepts of solar energy, its radiation, collection, storage and application.
CO2. To introduce the concepts and applications of Wind energy, Biomass energy, Geothermal energy Ocean energy as alternative energy sources.
CO3. To explore society's present needs and future energy demands.
CO4. To examine energy sources and systems, including fossil fuels and nuclear energy, and then focus on renewable energy sources such as solar, biomass (conversions), wind power, geothermal, etc
CO5. To get exposed to energy conservation methods.

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.
PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.
PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.
PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.
PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.
PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.
PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY				
FACULTY NAME	MRS. SHWETHA T M				
BRANCH	EEE	ACADEMIC YEAR	2022-23		
COURSE	B.E	SEMESTER	VI	SECTION	
SUBJECT	Non conventional Energy Sources		SUBJECT CODE	18ME651	

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	2	1	2					1		2	1
CO2	2	2	2	2					1		2	1
CO3	3	3	3	3					1		2	1
CO4	2	2	2	3					1		2	1
CO5	2	2	2	3					1		2	1
AVERAGE	2	2.2	2	2.6					1		2	1
OVERALL MAPPING OF SUBJECT												1.828

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	67	0.67	1.34	0.67	1.34					0.67		1.34	0.67
CO2	58	1.16	1.16	1.16	1.16					0.58		1.16	0.58
CO3	62	1.86	1.86	1.86	1.86					0.62		1.24	0.62
CO4	98	1.96	1.96	1.96	2.94					0.98		1.96	0.98
CO5	58	1.16	1.16	1.16	1.74					0.58		1.16	0.58
AVERAGE	68.6	1.362	1.496	1.362	1.808	0	0	0	0	0.686	0	1.372	0.686
FINAL ATTAINMENT LEVEL													1.253

CIVIL 6th sem	IA TEST 1			IA TEST 2			IA TEST 3			Assignment						SEE						TOTAL					Average				
USN	CO1	CO2	TOTAL	CO3	CO4	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5
1SV19CV006	12	6	18	12	12	24	10	8	18	2	2	2	2	2	10	3.2	3.2	3.2	3.2	3.2	16	17.2	11.2	17.2	27.2	13.2	50.59	33	51	80	39
1SV20CV001	17	17	34	18	12	30	15	17	32	2	2	2	2	2	10	7.2	7.2	7.2	7.2	7.2	36	26.2	26.2	27.2	36.2	26.2	77.06	77	80	106	77
1SV20CV002	6	5	11	11	7	18	13	9	22	2	2	2	2	2	10	4.2	4.2	4.2	4.2	4.2	21	12.2	11.2	17.2	26.2	15.2	35.88	33	51	77	45
1SV20CV003	13	5	18	6	13	19	9	6	15	2	2	2	2	2	10	6.2	6.2	6.2	6.2	6.2	31	21.2	13.2	14.2	30.2	14.2	62.35	39	42	89	42
1SV20CV005	18	15	33	12	12	24	14	10	24	2	2	2	2	2	10	7.2	7.2	7.2	7.2	7.2	36	27.2	24.2	21.2	35.2	19.2	80.00	71	62	104	56
1SV20CV006	14	11	25	14	13	27	14	13	27	2	2	2	2	2	10	5.4	5.4	5.4	5.4	5.4	27	21.4	18.4	21.4	34.4	20.4	62.94	54	63	101	60
1SV20CV007	8	9	17	10	5	15	10	5	15	2	2	2	2	2	10	6.4	6.4	6.4	6.4	6.4	32	16.4	17.4	18.4	23.4	13.4	48.24	51	54	69	39
1SV20CV008	17	15	22	14	14	28	17	14	31	2	2	2	2	2	10	9.4	9.4	9.4	9.4	9.4	47	28.4	26.4	25.4	42.4	25.4	83.53	78	75	125	75
1SV20CV009	17	13	30	18	13	30	15	13	28	2	2	2	2	2	10	9.6	9.6	9.6	9.6	9.6	48	28.6	24.6	29.6	39.6	24.6	84.12	72	87	116	72
1SV20CV010	11	15	26	13	13	26	16	14	30	2	2	2	2	2	10	8	8	8	8	8	40	21	25	23	39	24	61.76	74	68	115	71
1SV20CV011	17	14	24	8	13	21	13	8	21	2	2	2	2	2	10	5.4	5.4	5.4	5.4	5.4	27	24.4	21.4	15.4	33.4	15.4	71.76	63	45	98	45
1SV20CV014	16	8	24	14	12	26	13	12	25	2	2	2	2	2	10	4.6	4.6	4.6	4.6	4.6	23	22.6	14.6	20.6	31.6	18.6	66.47	43	61	93	55
1SV20CV015	17	10	27	14	12	26	13	13	26	2	2	2	2	2	10	9.6	9.6	9.6	9.6	9.6	48	28.6	21.6	25.6	36.6	24.6	84.12	64	75	108	72
1SV21CV400	16	15	31	9	7	16	16	12	28	2	2	2	2	2	10	5.4	5.4	5.4	5.4	5.4	27	23.4	22.4	16.4	30.4	19.4	68.82	66	48	89	57
TOTAL	199	158	340	173	158	330	188	154	342	28	28	28	28	28	140	91.8	91.8	91.8	91.8	91.8	459	318.8	277.8	292.8	465.8	273.8	937.64706	817.0588	861.1765	1370	805.2941
Total students	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
Avearge																											67	58	62	98	58

CIVIL 18ME651 NONCONVENTIOI NAL ENERGY SOURCES 2022-2023

Course Instructor

HOD

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Dept. of Civil Engineering
SIET, TUMKUR - 6.

Principal

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SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF CIVIL ENGINEERING

SUBJECT	DESIGN OF PRESTRESSED CONCRETE	SUBJECT CODE	18CV81

COURSE OUTCOME

CO 1. Understand the requirement of PSC members for present scenario.
CO 2. Analyse the stresses encountered in PSC element during transfer and at working.
CO 3. Understand the effectiveness of the design of PSC after studying losses
CO 4. Capable of analyzing the PSC element and finding its efficiency.
CO 5. Design PSC beam for different requirements.

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY				
FACULTY NAME	Mrs. Radhika T N				
BRANCH	CIVIL ENGINEERING	ACADEMIC YEAR	2022-23		
COURSE	B.E	SEMESTER	8	SECTION	---
SUBJECT	DESIGN OF PRESTRESSED CONCRETE			SUBJECT CODE	18CV81

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2										
CO2	3	3	2					2				
CO3	2	3	3					3				
CO4	2	3	3					2				
CO5	2	3										
AVERAGE	2	3										
OVERALL MAPPING OF SUBJECT												2.5

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	46.77	0.94	0.94										
CO2	60.72	1.82	1.82	1.21					1.21				
CO3	60.21	1.20	1.81	1.81					1.81				
CO4	64.98	1.30	1.95	1.95					1.30				
CO5	63.24	1.26	1.90										
AVERAGE		1.31	1.68	1.66					1.44				
FINAL ATTAINMENT LEVEL OF THE COURSE													1.52

Academic year	2022-23		SEM	VIII		Total strength			41			Subject	Design of Prestressed concrete					18CV81					% of individual CO					SEE Tot
	IA TEST 1(30M)		IA TEST 2(30M)			IA TEST 3(30M)			ASSIGNEMENT / QUIZ(10 M)				SEE MARKS(60)					Total Cos ATTAINMENT										60M
USN	CO1 30	TOTAL	CO2 - 15	CO3 -15	TOTAL	CO4 15	CO5 -15	TOTAL	CO1 2	CO2 2	CO3 2	CO4 2	CO5 2	CO1=12	CO2 = 12	CO3 = 12	CO4 = 12	CO5 = 12	CO1=45	CO2=29	CO3=29	CO4=28	CO5=29	CO1	CO2	CO3	CO4	CO5	
1SV18CV002	12	12	10	9	19	15	15	30	2	2	2	2	2	5	6	6	6	6	19	18	17	23	23	42.2222	62.069	58.6207	82.1429	79.3103	29
1SV18CV009	12	12	9	9	18	14	15	29	2	2	2	2	2	6	6	6	7	7	20	17	17	23	23	44.4444	58.6207	58.6207	82.1429	79.3103	32
1SV18CV010	8	8	3	3	6	13	14	27	2	2	2	2	2	4	5	5	5	5	14	10	10	20	20	31.1111	34.4828	34.4828	71.4286	68.9655	24
1SV18CV012	12	12	14	13	27	12	12	24	2	2	2	2	2	4	4	4	5	5	18	20	19	19	19	40	68.9655	65.5172	67.8571	65.5172	22
1SV18CV020	13	13	8	8	16	14	14	28	2	2	2	2	2	6	6	7	7	7	21	16	17	23	23	46.6667	55.1724	58.6207	82.1429	79.3103	33
1SV18CV023	20	20	14	15	29	15	15	30	2	2	2	2	2	6	6	7	7	7	28	22	24	24	24	62.2222	75.8621	82.7586	85.7143	82.7586	33
1SV18CV031	14	14	15	15	30	15	15	30	2	2	2	2	2	5	5	5	6	6	21	22	22	23	23	46.6667	75.8621	75.8621	82.1429	79.3103	27
1SV18CV033	15	15	10	9	19	9	9	18	2	2	2	2	2	4	4	4	5	5	21	16	15	16	16	46.6667	55.1724	51.7241	57.1429	55.1724	22
1SV18CV035	15	15	8	8	16	15	15	30	2	2	2	2	2	5	5	5	5	5	22	15	15	22	22	48.8889	51.7241	51.7241	78.5714	75.8621	25
1SV18CV037	14	14	15	15	30	15	15	30	2	2	2	2	2	5	6	6	6	6	21	23	23	23	23	46.6667	79.3103	79.3103	82.1429	79.3103	29
1SV19CV001	10	10	13		13	6	6	12	2	2	2	2	2	7	7	8	8	8	19	22	10	16	16	42.2222	75.8621	34.4828	57.1429	55.1724	38
1SV19CV002	9	9	4	5	9	4	4	8	2	2	2	2	2	4	4	4	4	5	15	10	11	10	11	33.3333	34.4828	37.931	35.7143	37.931	21
1SV19CV003	28	28	0	0	0	0	0	0	2	2	2	2	2	1	1	1	1	0	31	3	3	3	3	68.8889	10.3448	10.3448	10.7143	6.89655	4
1SV19CV004	8	8	12	11	23	14	15	29	2	2	2	2	2	8	8	8	8	8	18	22	21	24	24	40	75.8621	72.4138	85.7143	82.7586	40
1SV19CV005	12	12	10	11	21	13	14	27	2	2	2	2	2	4	4	4	4	5	18	16	17	19	20	40	55.1724	58.6207	67.8571	68.9655	21
1SV19CV007	2	2	4	4	8	7	8	15	2	2	2	2	2	7	7	7	7	7	11	13	13	16	16	24.4444	44.8276	44.8276	57.1429	55.1724	35
1SV19CV008	3	3	7	7	14	13	14	27	2	2	2	2	2	4	4	4	4	5	9	13	13	19	20	20	44.8276	44.8276	67.8571	68.9655	21
1SV19CV009	14	14	9	9	18	0	0	0	2	2	2	2	2	4	4	4	4	5	20	15	15	6	7	44.4444	51.7241	51.7241	21.4286	24.1379	21
1SV19CV010	30	30	14	14	28	13	14	27	2	2	2	2	2	5	6	6	6	6	37	22	22	21	21	82.2222	75.8621	75.8621	75	72.4138	29
1SV19CV012	24	24	10	11	21	12	13	25	2	2	2	2	2	5	5	5	5	6	31	17	18	19	20	68.8889	58.6207	62.069	67.8571	68.9655	26
1SV19CV013	18	18	15	15	30	15	15	30	2	2	2	2	2	7	7	7	7	7	27	24	24	24	24	60	82.7586	82.7586	85.7143	82.7586	35
1SV19CV014	20	20	3	3	6	7	7	14	2	2	2	2	2	7	7	7	7	8	29	12	12	17	17	64.4444	41.3793	41.3793	60.7143	58.6207	37
1SV19CV015	9	9	12	12	24	7	8	15	2	2	2	2	2	5	5	6	6	6	16	19	20	15	15	35.5556	65.5172	68.9655	53.5714	51.7241	28
1SV19CV016	9	9	10	9	19	7	7	14	2	2	2	2	2	7	7	7	7	8	18	19	18	16	17	40	65.5172	62.069	57.1429	58.6207	36
1SV19CV017	13	13	10	11	21	12	11	23	2	2	2	2	2	6	6	6	7	7	21	18	19	21	21	46.6667	62.069	65.5172	75	72.4138	32
1SV19CV018	27	27	9	9	18	15	15	30	2	2	2	2	2	6	6	6	6	6	35	17	17	23	23	77.7778	58.6207	58.6207	82.1429	79.3103	30
1SV19CV019	24	24	12	12	24	12	13	25	2	2	2	2	2	6	6	6	7	7	32	20	20	21	21	71.1111	68.9655	68.9655	75	72.4138	32
1SV19CV020	5	5	5	6	11	7	8	15	2	2	2	2	2	5	5	5	6	6	12	12	13	15	15	26.6667	41.3793	44.8276	53.5714	51.7241	27
1SV19CV021	24	24	14	14	28	10	11	21	2	2	2	2	2	4	4	5	5	5	30	20	21	17	17	66.6667	68.9655	72.4138	60.7143	58.6207	23
1SV19CV024	9	9	12	11	23	10	11	21	2	2	2	2	2	5	5	5	6	6	16	19	18	18	18	35.5556	65.5172	62.069	64.2857	62.069	27
1SV19CV025	0	0	14	14	28	0	0	0	2	2	2	2	2	5	5	5	6	6	7	21	21	8	8	15.5556	72.4138	72.4138	28.5714	27.5862	27
1SV19CV027	11	11	14	13	27	4	4	8	2	2	2	2	2	5	5	5	6	6	18	21	20	11	12	40	72.4138	68.9655	39.2857	41.3793	26
1SV19CV028	14	14	7	8	15	5	5	10	2	2	2	2	2	5	5	5	5	6	19	12	14	11	11	42.2222	41.3793	48.2759	39.2857	37.931	18
1SV19CV029	16	16	11	11	22	13	14	27	2	2	2	2	2	3	3	4	4	4	19	12	14	11	11	42.2222	41.3793	48.2759	39.2857	37.931	18
1SV19CV030	16	16	14	13	27	11	12	23	2	2	2	2	2	7	8	8	8	8	25	21	21	23	23	55.5556	72.4138	72.4138	82.1429	79.3103	39
1SV19CV031	21	21	15	15	30	12	13	25	2	2	2	2	2	7	7	8	8	8	25	23	23	21	21	55.5556	79.3103	79.3103	75	72.4138	38
1SV19CV032	3	3	14	13	27	11	12	23	2	2	2	2	2	6	6	7	7	7	29	23	24	21	21	64.4444	79.3103	82.7586	75	72.4138	33
1SV20CV400	8	8	5	6	11	10	11	21	2	2	2	2	2	5	5	5	6	6	10	21	20	19	19	22.2222	72.4138	68.9655	67.8571	65.5172	27
1SV20CV401	9	9	8	9	17	9	9	18	2	2	2	2	2	7	8	8	8	8	17	15	16	20	20	37.7778	51.7241	55.1724	71.4286	68.9655	39
1SV20CV402	30	30	14	14	28	13	14	27	2	2	2	2	2	1	2	2	2	2	12	12	13	13	13	26.6667	41.3793	44.8276	46.4286	44.8276	9
1SV20CV403	5	5	10	9	19	13	14	27	2	2	2	2	2	5	6	6	6	6	37	22	22	21	21	82.2222	75.8621	75.8621	75	72.4138	29
		0												7	7	7	7	7	14	19	18	22	22	31.1111	65.5172	62.069	78.5714	75.8621	35
																													0
																								46.77507	60.7233	60.21867	64.98258	63.24643	28.26829

Radhika
Course Instructor

HOD

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Dept. of Civil Engineering
SIET, TUMKUR - 6.

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SIET. TUMKUR.

SHRIDEVI EDUCATION	**SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY** **SIRA ROAD, TUMKUR- 572 106.**

Academic Year	**:2022-23 (EVEN Sem)**	**Faculty**	**: Dr. G MaheshKumar**
Subject	: Rehabilitation & Retrofitting	**Semester**	: 8
Code	: 18CV824		

Course Outcomes	
CO1	Identify the causes for structural (Concrete) deterioration.
CO2	Assess the type and extent of damage and carry out damage assessment of structures through various types of tests.
CO3	Recommend maintenance requirements of the buildings and preventive measures against influencing factors.
CO4	Select suitable material and suggest an appropriate method for repair and rehabilitation.

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

CO-PO Mapping													
	POs												
COS	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	1	0	0	1	2	0	2	0	3	0	1	1	1.6
CO2	2	1	0	1	2	1	1	0	2	1	2	1	1.4
CO3	2	0	0	1	2	1	1	0	2	1	2	2	1.6
CO4	3	0	0	1	2	1	1	0	2	1	2	2	1.7
Average	2	0.25	0	1	2	0.75	1.25	0	2.25	0.75	1.75	1.5	1.5
												OVERALL MAPPING OF SUBJECT =	1.5

CO-PO ATTAINMENT													
		POs											
COS	% COS	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	66.94	0.67	0	0	0.67	1.34	0	1.34	0	1.46	0	0.73	0.73	0.99
CO2	68.14	1.36	0.68	0	0.74	1.49	0.74	0.74	0	1.49	0.74	1.49	0.74	1.02
CO3	98.03	1.96	0	0	0.98	2.18	1.09	1.09	0	2.18	1.09	2.18	2.18	1.66
CO4	68.67	2.06	0	0	0.69	1.37	0.69	0.69	0	1.38	0.69	1.38	1.38	1.15
Average		1.51	0.17	0	0.77	1.6	0.84	0.97	0	1.63	0.84	1.445	1.258	1.21
												FINIAL ATTAINMENT		1.21

Course Instructor

HOD

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SIET, TUMKUR - 6.

PRINCIPAL
SIET, TUMKUR.

Principal

ACADEMIC 2022-23 (EVEN) R&R 18CV824

SEM: VIII Civil

| | IA TEST 1 | | | IA TEST 2 | | | IA TEST 3 | | |