

AY-2022-2023

ODD

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

COURSE NAME	DATA STRUCTURES AND APPLICATIONS	COURSE CODE	21CS32
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COURSE OUTCOME

- CO1: Explain the fundamentals of data structures and their applications essential for implementing solutions to problems
- CO2: Illustrate representation structures: Stack, Queues, Linked of data Lists, Trees and Graphs..
- CO3: Design and Develop Solutions to problems using Arrays, Structures, Stack, Queues, Linked Lists
- CO4: Explore usage of Trees and Graph for application development.
- CO5: Apply the Hashing techniques in mapping key value pairs.

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, analyse, 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

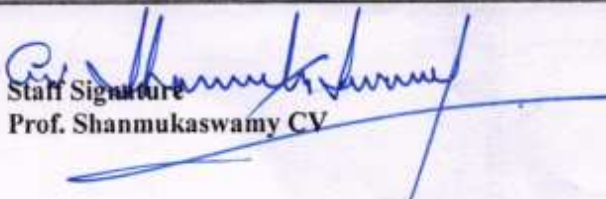
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY															
FACULTY NAME	PROF. SHANMUKASWAMY C V															
BRANCH	CS	ACADEMIC YEAR										2022-23				
PROGRAM	B.E	SEMESTER	III	SECTION	A [CSE]											
COURSE NAME	DATA STRUCTURES AND APPLICATIONS										COURSE CODE	21CS32				
CO & PO MAPPING																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	
CO1	3											1	2			
CO2	3	3	3	2	1							1	2			
CO3	3	2	3	3	1	2						1	2			
CO4	3	3	3	3	1	3						2	2			
CO5	3	2	3	1	1							2	1			
AVERAGE	3.0	2.5	3.0	2.25	1.0	2.5						2.0	1.8			
OVERALL MAPPING OF COURSE															2.25	

CO AND PO ATTAINMENT

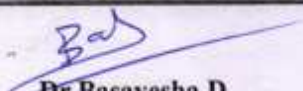
	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	72.9	2.2											0.7	1.5		
CO2	71.3	2.1	2.1	2.1	1.4	0.7							0.7	1.4		
CO3	64.7	1.9	1.3	1.9	1.9	0.6	1.3						0.6	1.3		
CO4	66.1	2.0	2.0	2.0	2.0	0.7	2.0						1.3	1.3		
CO5	65.6	2.0	1.3	2.0	0.7	0.7							1.3	0.7		
AVERAGE		2.04	1.68	2.0	1.5	0.68	1.65						0.92	1.24		
FINAL ATTAINMENT LEVEL																1.46

Staff Signature
 Prof. Shanmukaswamy CV



Dr. Basavesha D
 HOD, CSE

HOD,
 COMPUTER SCIENCE & ENGG.,
 SIET, TUMAKURU-06.



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
CoSPOs ATTAINMENT
ACADEMIC YEAR -2022-23[ODD SEM]

CLASS:3rd SEM A section CSE

Course Name :Data Structures and Applications[21CS32]

Roll No.	USN	Name	IA Test		IA TEST I		IA TEST II		IA TEST III		Assignment [10/5]					Lab marks	Practical [20/5]					SEE	SEE [50]					Final COs					
			IA1	IA2	IA3	CO1	CO2	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4		CO5	CO1	CO2	CO3	CO4		CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5
			20	20	20	10	10	10	10	10	10	2	2	2	2		2	4	4	4	4		4	10	10	10	10	10	26	36	26	26	26
1	ISV21CS001	AASTHA PANDDY	16	12	13	8	8	6	6	6	7	2	2	2	2	2	16	4	3	3	3	3	32	7	7	6	6	6	21	26	17	17	18
2	ISV21CS002	ABDUL MOHSIN J KHAN	20	18	20	10	10	9	9	10	10	2	2	2	2	2	20	4	4	4	4	4	35	7	7	7	7	7	23	32	22	23	23
3	ISV21CS003	ABHINAV DEVARAJ T R	8	AB	6	4	4	AB	AB	3	3	2	2	2	2	2	19	4	4	4	4	3	8	2	2	2	1	1	12	12	8	10	9
4	ISV21CS004	ABHISHEK RANIAN	6	13	8	3	3	7	6	4	4	2	2	2	2	2	14	3	3	3	3	2	11	2	2	2	2	3	10	17	13	11	11
5	ISV21CS005	ABRAR AHAMED I	11	10	10	6	5	5	5	5	5	2	2	2	2	2	15	3	3	3	3	3	18	3	3	4	4	4	14	18	14	14	14
6	ISV21CS006	AISHWARYA S	20	16	16	10	10	8	8	8	8	2	2	2	2	2	19	4	4	4	3	4	23	5	5	5	4	4	21	29	19	17	18
7	ISV21CS008	ANANYA M J	16	13	15	8	8	6	7	7	8	2	2	2	2	2	20	4	4	4	4	4	18	4	4	3	3	4	18	24	16	16	18
8	ISV21CS009	ARSHIYA NAAZ	20	11	13	10	10	6	5	7	6	2	2	2	2	2	20	4	4	4	4	4	11	2	2	2	3	2	18	24	13	16	14
9	ISV21CS010	BHARATH M H	20	18	15	10	10	9	9	7	8	2	2	2	2	2	20	4	4	4	4	4	19	4	4	4	3	4	20	29	19	16	18
10	ISV21CS011	BHAVANA M R	20	10	17	10	10	5	5	8	9	2	2	2	2	2	20	4	4	4	4	4	20	5	5	5	5	5	21	26	16	19	20
11	ISV21CS012	BHAVYA A	20	17	16	10	10	9	8	8	8	2	2	2	2	2	20	4	4	4	4	4	20	5	5	5	5	5	21	26	16	19	20
12	ISV21CS013	BHAVYA S	11	15	14	5	6	8	7	7	7	2	2	2	2	2	20	4	4	4	4	4	35	7	7	7	7	7	23	32	21	21	21
13	ISV21CS014	BHOOMIKA Y	20	12	15	10	10	6	6	7	8	2	2	2	2	2	20	4	4	4	4	4	18	4	4	4	3	3	15	24	17	16	16
14	ISV21CS015	BHUVAN G RAMALADA	20	15	15	10	10	7	8	8	7	2	2	2	2	2	17	3	3	3	4	4	24	6	6	6	6	6	22	28	18	19	20
15	ISV21CS016	BIMMI KUMARI	20	17	20	10	10	8	9	10	10	2	2	2	2	2	19	4	4	3	4	4	34	7	7	7	7	6	22	29	20	21	19
16	ISV21CS017	BINDHU SHREE R	19	15	18	9	10	7	8	9	9	2	2	2	2	2	20	4	4	4	4	4	21	4	5	4	4	4	19	28	18	19	19
17	ISV21CS018	CHAITHRA P	20	19	18	10	10	10	9	9	9	2	2	2	2	2	20	4	4	4	4	4	25	5	5	5	5	5	21	31	20	20	20
18	ISV21CS019	CHAITHRA V	20	12	6	10	10	6	6	3	3	2	2	2	2	2	18	3	3	4	4	4	25	5	5	5	5	5	20	26	17	14	14
19	ISV21CS020	CHANDANA G	20	17	19	10	10	9	8	9	10	2	2	2	2	2	20	4	4	4	4	4	15	3	3	3	3	3	19	28	17	18	19
20	ISV21CS021	CHANDANA N H	AB	6	8	AB	AB	3	3	4	4	2	2	2	2	2	17	4	4	3	3	3	9	2	2	2	2	1	8	11	10	11	10
21	ISV21CS022	CHANDU P	20	19	20	10	10	10	9	10	10	2	2	2	2	2	20	4	4	3	3	3	9	2	2	2	2	1	8	11	10	11	10
22	ISV21CS023	CHITHRA J P	20	13	18	10	10	6	7	9	9	2	2	2	2	2	20	4	4	4	4	4	29	6	6	6	6	5	22	32	21	22	21
23	ISV21CS024	D P HARSHITHA	14	16	14	7	7	8	8	7	7	2	2	2	2	2	20	4	4	4	4	4	25	5	5	5	5	5	21	27	18	20	20
24	ISV21CS025	DARSHAN K	20	9	12	10	10	5	4	6	6	2	2	2	2	2	16	3	3	3	3	4	25	5	5	5	5	5	20	25	14	16	17
25	ISV21CS026	DHANUSH K R	20	17	20	10	10	9	8	10	10	2	2	2	2	2	20	4	4	4	4	4	30	6	6	6	6	6	22	31	20	22	22
26	ISV21CS027	DHEERAJ S	17	11	9	8	9	6	5	5	4	2	2	2	2	2	18	4	3	3	4	4	14	3	3	3	3	2	17	23	13	14	12
27	ISV21CS028	DIPENDU KUMBHAKAR	20	18	18	10	10	9	9	9	9	2	2	2	2	2	18	4	4	3	3	4	31	6	7	6	6	6	22	32	20	20	21
28	ISV21CS029	DIVYA A C	20	12	15	10	10	6	6	7	8	2	2	2	2	2	20	4	4	4	4	4	24	5	5	5	5	4	21	27	17	18	18
29	ISV21CS030	DIVYA D R	17	16	17	9	8	8	8	9	8	2	2	2	2	2	19	3	4	4	4	4	20	4	4	4	4	4	18	26	18	19	18
30	ISV21CS032	HARSHITHA B	14	12	5	7	7	6	6	3	2	2	2	2	2	20	4	4	4	4	4	6	1	2	1	1	1	14	21	13	10	9	
31	ISV21CS033	HEMANTH YALLAPPA HADAPAD	18	15	AB	9	9	7	8	AB	AB	2	2	2	2	2	11	2	2	2	3	2	20	4	4	4	4	4	17	24	16	9	8
32	ISV21CS034	HEMASHREE M	18	9	9	9	9	5	4	5	4	2	2	2	2	2	16	4	3	3	3	3	14	3	3	2	2	2	18	22	11	12	11
33	ISV21CS035	HENJESH K O	20	13	20	10	10	6	7	10	10	2	2	2	2	2	20	4	4	4	4	4	28	6	6	6	5	5	22	28	19	21	21
34	ISV21CS036	KARUNAKARA L	14	15	16	7	7	8	7	8	8	2	2	2	2	2	18	4	4	3	3	4	24	5	5	5	5	4	18	26	17	18	18
35	ISV21CS037	KIRAN S	19	14	14	10	9	7	7	7	7	2	2	2	2	2	18	4	4	4	3	3	22	5	5	4	4	4	21	27	17	16	16
36	ISV21CS038	KISHOR N	18	14	20	9	9	7	7	10	10	2	2	2	2	2	20	4	4	4	3	3	22	5	5	4	4	4	21	27	17	16	16
37	ISV21CS039	KUSUMA R	9	6	8	5	4	3	3	4	4	2	2	2	2	2	14	3	3	3	3	2	14	2	2	3	3	3	12	14	11	12	11

38	1SV21CS040	LAXMI SONNAD	20	16	19	10	10	8	8	10	9	2	2	2	2	2	20	4	4	4	4	4	31	6	7	6	6	6	22	31	20	22	21			
39	1SV21CS041	LIKITHA T P	19	10	12	9	10	5	5	6	6	2	2	2	2	2	19	4	4	3	4	4	27	5	5	5	6	6	20	26	15	18	18			
40	1SV21CS042	MAMATHA H R	20	16	18	10	10	8	8	9	9	2	2	2	2	2	20	4	4	4	4	4	18	4	4	4	3	3	20	28	18	18	18			
41	1SV21CS043	MANDARA H	19	13	16	10	9	7	6	8	8	2	2	2	2	2	18	4	3	3	4	4	21	4	5	4	4	4	20	26	15	18	18			
42	1SV21CS044	MANIKANTA M	16	12	13	8	8	6	6	7	6	2	2	2	2	2	19	4	3	4	4	4	14	2	2	3	3	3	16	21	15	16	15			
43	1SV21CS045	MANU S	20	19	20	10	10	9	10	10	10	2	2	2	2	2	20	4	4	4	4	4	29	6	6	6	6	5	22	31	22	22	21			
44	1SV21CS046	MAYUR KUSHAL PATIL	19	12	16	9	10	6	6	8	8	2	2	2	2	2	19	4	4	3	4	4	31	6	7	6	6	6	21	29	17	20	20			
45	1SV21CS048	MOHAMMED JUNAID PASHA	13	10	10	7	6	5	5	5	5	2	2	2	2	2	20	4	4	4	4	4	11	3	2	2	2	2	16	19	13	13	13			
46	1SV21CS049	NAGAPOOJA M	20	18	17	10	10	9	9	8	9	2	2	2	2	2	20	4	4	4	4	4	25	5	5	5	5	5	21	30	20	19	20			
47	1SV21CS050	NAHIDA K	20	13	13	10	10	6	7	6	7	2	2	2	2	2	20	4	4	4	4	4	31	6	6	7	6	6	22	28	20	18	19			
48	1SV21CS051	NANDAN L	10	7	9	5	5	4	3	5	4	2	2	2	2	2	19	4	4	4	3	4	22	4	4	4	5	5	15	19	13	15	15			
49	1SV21CS052	P A NIVEDITHA	16	16	19	8	8	8	8	10	9	2	2	2	2	2	20	4	4	4	4	4	33	6	7	7	7	6	20	29	21	23	21			
50	1SV21CS053	PANEENDRA E	18	13	12	9	9	6	7	6	6	2	2	2	2	2	18	4	4	4	3	3	13	2	2	3	3	3	17	23	16	14	14			
51	1SV21CS054	POOJA G	20	11	13	10	10	5	6	7	6	2	2	2	2	2	20	4	4	4	4	4	23	4	4	3	3	3	20	25	15	16	15			
52	1SV21CS055	PRADEEP KUMAR H G	20	16	19	10	10	8	8	10	9	2	2	2	2	2	20	4	4	4	4	4	28	6	6	6	5	5	22	30	20	21	20			
53	1SV21CS056	PRIYANSHU PRASHAD	19	17	17	10	9	9	8	9	8	2	2	2	2	2	20	4	4	4	4	4	13	2	2	3	3	3	18	26	17	18	17			
54	1SV21CS057	PUNEETH KUMAR R	20	13	11	10	10	6	7	5	6	2	2	2	2	2	20	4	4	4	4	4	18	4	4	4	3	3	20	26	17	14	15			
55	1SV21CS058	PUNEETH N	20	12	16	10	10	6	6	8	8	2	2	2	2	2	19	4	4	4	4	3	13	3	3	3	2	2	19	25	15	16	15			
56	1SV21CS059	PUNITH KUMAR H S	20	13	16	10	10	6	7	8	8	2	2	2	2	2	20	4	4	4	4	4	24	4	5	5	5	5	20	27	18	19	19			
57	1SV21CS060	RAJAN KUMAR SAH	20	14	13	10	10	7	7	6	7	2	2	2	2	2	18	4	4	4	3	3	20	4	4	4	4	4	20	27	17	15	16			
58	1SV21CS062	RAKSHITHA P B	11	7	8	6	5	3	4	4	4	2	2	2	2	2	20	4	4	4	4	4	6	1	2	1	1	1	13	16	11	11	11			
59	1SV21CS063	RAMYASHREE N	20	18	17	10	10	9	9	8	9	2	2	2	2	2	20	4	4	4	4	4	32	6	6	6	7	7	22	31	21	21	22			
		TOTAL																									18.9	25.7	16.8	17.2	17.1					
		Total students																									Attainment					72.9	71.3	64.7	66.1	65.6

2.2	2.1	1.9	2.0	2.0
1.5	1.4	1.3	1.3	1.3
0.7	0.7	0.6	0.7	0.7

C.V. Shanmuga Kumari
Prof. Shanmuga Swamy cv.

Bas

H.O.D.
COMPUTER SCIENCE & ENGG.
S.I.E.T. TUMAKURU-08.

Shanmuga Kumari
PRINCIPAL
S.I.E.T. TUMKUR.



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

COURSE OUTCOME

- CO1: Explain the fundamentals of data structures and their applications essential for implementing solutions to problems
- CO2: Illustrate representation structures: Stack, Queues, Linked of data Lists, Trees and Graphs.
- CO3: Design and Develop Solutions to problems using Arrays, Structures, Stack, Queues, Linked Lists.
- CO4: Explore usage of Trees and Graph for application development.

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, analyse, 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	DR. MANJULA T														
BRANCH	CSE					ACADEMIC YEAR					2022-23				
PROGRAM	B.E	SEMESTER				III	SECTION			B [CSE]					
COURSE NAME	DATA STRUCTURES AND APPLICATIONS							COURSE CODE			21CS32				
CO & PO MAPPING															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3											1	2		
CO2	3	3	3	2	1							1	2		
CO3	3	2	3	3	1	2						1	2		
CO4	3	3	3	3	1	3						2	2		
AVERAGE	3	2.6	3	2.6	1	2.5						1.2	2		
OVERALL MAPPING OF COURSE															2.23

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	66.9	2.00											0.66	1.33		
CO2	53.6	1.60	1.60	1.60	1.07	0.53							0.53	1.07		
CO3	56.6	1.69	1.13	1.69	1.69	0.56	1.13						0.56	1.13		
CO4	53.2	1.59	1.59	1.59	1.59	0.53	1.59						1.06	1.06		
AVERAGE		1.72	1.44	1.62	1.45	0.54	1.36						0.70	1.14		
FINAL ATTAINMENT LEVEL																1.24

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

SUB:Data Structure & Applications			Sem:III 'B' SEC				2022-23				EVEN				FACULTY:Dr.Manjula T									
Roll No.	USN	Name	21CS32			T3				ASSIGNMENT 10/10				EXTERNAL				Final				TOTAL AVG		
			T1	T2	T3	CO1-20	CO2-20	CO3-10	CO4-10	CO1-3	CO2-2	CO3-3	CO4-2	SEE (50)	CO1-12	CO2-12	CO3-12	CO4-12	CO1-35	CO2-34	CO3-25		CO4-24	
1	ISV21CS06	ROJA G	14	7	9	14	7	5	4	3	2	3	2	1	0	0	0	0	17	9	8	6	10.3	
2	ISV21CS06	SAHANA D N	10	10	11	10	10	5	6	3	2	3	2	3	1	1	1	1	14	13	9	9	11.0	
3	ISV21CS06	SAHIL MUBARAK	13	0	8	13	0	4	4	3	2	3	2	22	6	6	6	6	22	8	13	12	13.3	
4	ISV21CS06	SANJAY RAMESH NAIK	0	8	11	0	8	5	6	3	2	3	2	18	5	5	5	5	8	15	13	13	11.8	
5	ISV21CS06	SARANYA B	18	14	11	18	14	5	6	3	2	3	2	18	5	5	5	5	26	21	13	13	17.8	
6	ISV21CS06	SHASHIREKHA K N	10	4	10	10	4	5	5	3	2	3	2	13	3	3	3	3	16	9	11	10	11.8	
7	ISV21CS07	SHREYA T S	19	18	18	19	18	9	9	3	2	3	2	20	5	5	5	5	27	25	17	16	21.3	
8	ISV21CS07	SHREYAS SURESH SALUNKHE	20	18	18	20	18	10	8	3	2	3	2	26	7	7	7	7	30	27	20	17	23.0	
9	ISV21CS07	SNEHA G	17	16	18	17	16	10	8	3	2	3	2	27	7	7	7	7	27	25	20	17	22.0	
10	ISV21CS07	SOUMYA	20	16	17	20	16	10	7	3	2	3	2	24	6	6	6	6	29	24	19	15	21.8	
11	ISV21CS07	SOWMYASHRI S	15	14	8	15	14	4	4	3	2	3	2	15	4	4	4	4	22	20	11	10	15.5	
12	ISV21CS07	SOWNDARYA K A	20	7	8	20	7	4	4	3	2	3	2	13	3	3	3	3	26	12	10	9	14.5	
13	ISV21CS07	SPANDANA B GOWDA	20	20	18	20	20	10	8	3	2	3	2	31	8	8	8	8	31	30	21	18	24.8	
14	ISV21CS07	SUJAN TIMMAPPA NAIK	20	15	11	20	15	6	5	3	2	3	2	19	5	5	5	5	28	22	14	12	18.8	
15	ISV21CS07	SUMA M T	20	18	18	20	18	10	8	3	2	3	2	30	8	8	8	8	31	28	21	18	24.0	
16	ISV21CS08	TASMIYA BANU	17	13	10	17	13	5	5	3	2	3	2	12	3	3	3	3	23	18	11	10	15.5	
17	ISV21CS08	UMESH	8	1	10	8	1	5	5	3	2	3	2	13	3	3	3	3	14	6	11	10	10.5	
18	ISV21CS08	VEENA N	20	18	20	20	18	10	10	3	2	3	2	26	7	7	7	7	30	27	20	19	23.5	
19	ISV21CS08	VIDHYA S	17	1	11	17	1	5	6	3	2	3	2	22	6	6	6	6	26	9	14	14	15.3	
20	ISV21CS08	VINAY KUMAR R	14	10	11	14	10	5	6	3	2	3	2	14	4	4	4	4	21	16	12	12	14.8	
21	ISV21CS08	VISHNU THIRTHA TADPATRI	10	8	4	10	8	2	2	3	2	3	2	14	4	4	4	4	17	14	9	8	11.5	
22	ISV21CS08	YOJITH SIDDESHWAR G	20	14	15	20	14	8	7	3	2	3	2	29	7	7	7	7	30	23	18	16	22.0	
23	ISV21CS08	ZAINAB FAKRUDDIN	20	16	14	20	16	7	7	3	2	3	2	20	5	5	5	5	28	23	15	14	20.0	
																			23.4	18.2	14.2	12.8		
																			66.9%	53.6%	56.6%	53.2%		

Manjula T
Staff Signature

Bas
HOD, CSE

H.O.D.
COMPUTER SCIENCE & ENGG.,
SIET, TUMAKURU-08.

Manjula T
PRINCIPAL
SIET, TUMKUR.



SHRIDEVI
EDUCATION

(Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka and Affiliated to Visvesvaraya Technological University, Belagavi)

Sri Shridevi Charitable Trust (R.)

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY

Sira Road, Tumkur - 572 106, Karnataka, India.

Phone: 0816 - 2212629 | Principal: 0816 - 2212627, 9686114899 | Telefax: 0816 - 2212628

Email: info@shrideviengineering.org, principal@shrideviengineering.org | Website: www.shrideviengineering.org

ESTD: 2002



Department of Computer Science and Engineering

COURSE OUTCOME

- CO1. Design and analyse application of analog circuits using photo devices, timer IC, power supply and regulator IC and op-amp.
- CO2. Explain the basic principles of A/D and D/A conversion circuits and develop the same.
- CO3. Simplify digital circuits using Karnaugh Map, and Quine-McClusky Methods.
- CO4. Explain Gates and flip flops and make us in designing different data processing circuits, Registers and counters and compare the types.
- CO5. Develop simple HDL programs.

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. LAVANYA K														
BRANCH	CSE			ACADEMIC YEAR				2022-23							
COURSE	B.E	SEMESTER		III	SECTION			A							
SUBJECT	ANALOG AND DIGITAL ELECTRONICS					SUBJECT CODE			21CS33						
CO & PO MAPPING															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	2								1	1		2	
CO2	2	1	1									1		1	
CO3	3	2	3	2	1						1		2		
CO4	2	2	2	2							1	1	2		
CO5	2			1	2										
AVERAGE	2.2	1.75	2	1.7	1.5						1	1	2	1.5	
OVERALL MAPPING OF SUBJECT												1.62			

CO - PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	65.1	1.30	1.30	1.30								0.65	0.65		1.30	
CO2	59.6	1.19	0.59	0.59									0.59		0.59	
CO3	59.9	1.79	1.19	1.79	1.19	0.59						0.59		1.19		
CO4	62.7	1.25	1.25	1.25	1.25							0.62	0.62	1.25		
CO5	62.3	1.24			0.62	1.24										
AVERAGE		1.35	1.08	1.23	1.02	0.91						0.62	0.62	1.22	0.94	
FINAL ATTAINMENT LEVEL													0.99			

Lavanya K

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

SUB: Analog and Digital Electronics(ADE)

Roll No.	USN	NAME	21CS33			2022-2023 ODD SEM					SEM: III					SEC: 'A'					NAME OF THE STAFF					Mrs.Lavanya K	TOTAL AVG
			IA MARKS			T1	T2	T3	ASSIGNMENT 10/10					SEE					FINAL								
			T1 (20)	T2 (20)	T3 (20)	CO1-20	CO2-10	CO3-10	CO4-10	CO5-10	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	SEE (60)	CO1-12	CO2-12	CO3-12	CO4-12	CO5-12	CO1-24	CO2-24	CO3-24	CO4-24		
1	ISV21CS001	AASTHA PANDDY	10	12	17	10	6	6	10	7	2	2	2	2	2	24	5	5	5	5	5	17	13	13	17	14	15
2	ISV21CS002	ABDUL MOHSIN J KHAN	15	14	17	15	7	7	9	8	2	2	2	2	2	22	4	4	4	4	4	21	13	13	15	14	16
3	ISV21CS003	ABHINAV DEVARAJ T R	15	0	12	15	0	0	6	6	2	2	2	2	2	20	4	4	4	4	4	21	6	6	12	12	11
4	ISV21CS004	ABHISHEK RANJAN	9	8	14	9	4	4	7	7	2	2	2	2	2	3	1	1	1	1	1	12	7	7	10	10	9
5	ISV21CS005	ABRAR AHAMED I	11	6	16	11	3	3	8	8	2	2	2	2	2	18	4	4	4	4	4	17	9	9	14	14	12
6	ISV21CS006	AISHWARYA S	19	17	18	19	8	9	9	9	2	2	2	2	2	33	7	7	7	7	7	28	17	18	18	18	19
7	ISV21CS008	ANANYA M J	19	15	18	19	7	5	9	9	2	2	2	2	2	26	5	5	5	5	5	26	14	12	16	16	17
8	ISV21CS009	ARSHIYA NAAZ	20	17	17	20	9	8	9	8	2	2	2	2	2	9	2	2	2	2	2	24	13	12	13	12	15
9	ISV21CS010	BHARATH M H	19	16	18	19	8	8	10	8	2	2	2	2	2	18	4	4	4	4	4	25	14	14	16	14	16
10	ISV21CS011	BHAVANA M R	12	16	18	12	8	8	10	8	2	2	2	2	2	20	4	4	4	4	4	18	14	14	16	14	15
11	ISV21CS012	BHAVYA A	18	18	19	18	9	9	10	9	2	2	2	2	2	27	5	5	5	5	5	25	16	16	17	16	18
12	ISV21CS013	BHAVYA S	15	16	18	15	8	8	8	10	2	2	2	2	2	28	6	6	6	6	6	23	16	16	16	18	17
13	ISV21CS014	BHOOMIKA Y	18	17	18	18	10	7	9	9	2	2	2	2	2	20	4	4	4	4	4	24	16	13	15	15	17
14	ISV21CS015	BHUVAN G RAMALADA	13	18	19	13	9	9	10	9	2	2	2	2	2	34	7	7	7	7	7	22	18	18	19	18	19
15	ISV21CS016	BIMMI KUMARI	20	19	20	20	10	9	10	10	2	2	2	2	2	34	7	7	7	7	7	29	19	18	19	19	21
16	ISV21CS017	BINDHUSHREE R	14	13	17	14	7	6	10	7	2	2	2	2	2	11	2	2	2	2	2	18	11	10	14	11	13
17	ISV21CS018	CHAITHRA P	20	19	19	20	9	10	10	9	2	2	2	2	2	26	5	5	5	5	5	27	16	17	17	16	19
18	ISV21CS019	CHAITHRA V	18	16	16	18	8	8	8	8	2	2	2	2	2	18	4	4	4	4	4	24	14	14	14	14	16
19	ISV21CS020	CHANDANA G	20	15	19	20	7	8	10	9	2	2	2	2	2	41	8	8	8	8	8	30	17	18	20	19	21
20	ISV21CS021	CHANDANA N H	10	11	12	10	5	6	6	6	2	2	2	2	2	5	1	1	1	1	1	13	8	9	9	9	10
21	ISV21CS022	CHANDU P	18	20	20	18	10	10	10	10	2	2	2	2	2	23	5	5	5	5	5	25	17	17	17	17	18
22	ISV21CS023	CHITHRA J P	14	18	19	14	9	9	9	10	2	2	2	2	2	27	5	5	5	5	5	21	16	16	16	17	18
23	ISV21CS024	D P HARSHITHA	15	13	17	15	6	7	8	9	2	2	2	2	2	10	2	2	2	2	2	19	10	11	12	13	13
24	ISV21CS025	DARSHAN K	12	17	13	12	8	9	6	7	2	2	2	2	2	22	4	4	4	4	4	18	14	15	12	13	15
25	ISV21CS026	DHANUSH K R	20	19	20	20	9	10	10	10	2	2	2	2	2	27	5	5	5	5	5	27	16	17	17	17	19
26	ISV21CS027	DHEERAJ S	11	13	20	11	6	7	10	10	2	2	2	2	2	18	4	4	4	4	4	17	12	13	16	16	14
27	ISV21CS028	DIPENDU KUMBHAKAR	11	17	20	11	8	9	10	10	2	2	2	2	2	32	6	6	6	6	6	19	16	17	18	18	18
28	ISV21CS029	DIVYA A C	18	19	18	18	10	9	9	9	2	2	2	2	2	38	8	8	8	8	8	28	20	19	19	19	21
29	ISV21CS030	DIVYA D R	17	20	18	17	10	10	9	9	2	2	2	2	2	23	5	5	5	5	5	24	17	17	16	16	18
30	ISV21CS032	HARSHITHA B	13	12	13	13	6	6	6	7	2	2	2	2	2	18	4	4	4	4	4	19	12	12	12	13	13
31	ISV21CS033	HEMANTH YALLAPPA	11	12	9	11	6	6	5	4	2	2	2	2	2	18	4	4	4	4	4	19	12	12	12	13	13
32	ISV21CS034	HEMASHREE M	9	7	15	9	4	3	7	8	2	2	2	2	2	2	0	0	0	0	0	11	6	5	9	10	9
33	ISV21CS035	HENJESH K O	19	18	18	19	9	9	9	9	2	2	2	2	2	31	6	6	6	6	6	27	17	17	17	17	19
34	ISV21CS036	KARUNAKARA L	19	17	19	19	8	9	10	9	2	2	2	2	2	28	6	6	6	6	6	27	16	17	18	17	19
35	ISV21CS037	KIRAN S	13	17	15	13	8	9	7	8	2	2	2	2	2	25	5	5	5	5	5	20	15	16	14	15	16
36	ISV21CS038	KISHOR N	19	18	20	19	9	9	10	10	2	2	2	2	2	28	6	6	6	6	6	27	17	17	18	18	19
37	ISV21CS039	KUSUMA R	11	10	9	11	5	5	4	5	2	2	2	2	2	21	4	4	4	4	4	17	11	11	10	11	12
38	ISV21CS040	LAXMI SONNAD	20	19	19	20	10	9	9	10	2	2	2	2	2	29	6	6	6	6	6	28	18	17	17	18	19
39	ISV21CS041	LIKITHA T P	17	13	16	17	7	6	8	8	2	2	2	2	2	28	6	6	6	6	6	25	15	14	16	16	17
40	ISV21CS042	MAMATHA H R	20	19	17	20	10	9	8	9	2	2	2	2	2	24	5	5	5	5	5	27	17	16	15	16	17
41	ISV21CS043	MANDARA H	15	18	15	15	9	9	7	8	2	2	2	2	2	36	7	7	7	7	7	24	18	18	16	17	19

42	ISV21CS044	MANIKANTA M	16	16	17	16	8	8	9	8	2	2	2	2	2	24	5	5	5	5	5	23	15	15	16	15	17								
43	ISV21CS045	MANU S	20	20	17	20	10	10	8	9	2	2	2	2	2	43	9	9	9	9	9	31	21	21	19	20	22								
44	ISV21CS046	MAYUR KUSHAL PATIL	17	14	17	17	7	7	8	9	2	2	2	2	2	30	6	6	6	6	6	25	15	15	16	17	18								
45	ISV21CS048	MOHAMMED JUNAID PASHA	14	11	13	14	5	6	6	7	2	2	2	2	2	20	4	4	4	4	4	20	11	12	12	13	14								
46	ISV21CS049	NAGAPOOJA M	20	19	20	20	10	9	10	10	2	2	2	2	2	27	5	5	5	5	5	27	17	16	17	17	19								
47	ISV21CS050	NAHIDA K	17	18	19	17	9	9	10	9	2	2	2	2	2	27	5	5	5	5	5	24	16	16	17	16	18								
48	ISV21CS051	NANDAN L	10	11	10	10	5	6	5	5	2	2	2	2	2	18	4	4	4	4	4	16	11	12	11	11	12								
49	ISV21CS052	P A NIVEDITHA	20	20	19	20	10	10	10	9	2	2	2	2	2	22	4	4	4	4	4	26	16	16	16	15	18								
50	ISV21CS053	PANEENDRA E	14	15	16	14	7	8	8	8	2	2	2	2	2	22	4	4	4	4	4	20	13	14	14	14	15								
51	ISV21CS054	POOJA G	14	16	12	14	8	8	6	6	2	2	2	2	2	20	4	4	4	4	4	20	14	14	12	12	14								
52	ISV21CS055	PRADEEP KUMAR H G	18	15	19	18	7	8	10	9	2	2	2	2	2	31	6	6	6	6	6	26	15	16	18	17	19								
53	ISV21CS056	PRIYANSHU PRASHAD	16	14	18	16	7	7	9	9	2	2	2	2	2	11	2	2	2	2	2	20	11	11	13	13	14								
54	ISV21CS057	PUNEETH KUMAR R	16	17	16	16	8	9	8	8	2	2	2	2	2	18	4	4	4	4	4	22	14	15	14	14	15								
55	ISV21CS058	PUNEETH N	14	16	17	14	8	8	8	9	2	2	2	2	2	20	4	4	4	4	4	20	14	14	14	15	15								
56	ISV21CS059	PUNITH KUMAR H S	15	17	16	15	8	9	8	8	2	2	2	2	2	33	7	7	7	7	7	24	17	18	17	17	18								
57	ISV21CS060	RAJAN KUMAR SAH	11	13	12	11	6	7	6	6	2	2	2	2	2	19	4	4	4	4	4	17	12	13	12	12	13								
58	ISV21CS062	RAKSHITHA P B	13	15	13	13	7	8	6	7	2	2	2	2	2	18	4	4	4	4	4	19	13	14	12	13	14								
59	ISV21CS063	RAMYASHREE N	17	20	18	10	10	10	9	9	2	2	2	2	2	36	7	7	7	7	7	19	19	19	18	18	19								
																					22.15	14.30	14.39	15.05	14.96										
																					65.1%	59.6%	59.9%	62.7%	62.3%										

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Bas
H.O.D.
COMPUTER SCIENCE & ENGG.,
SIET, TUMKUR-08.

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SIET, TUMKUR.

Department of Computer Science and Engineering

2022-2023

COURSE OUTCOMES **Subject: COMPUTER ORGANIZATION AND ARCHITECTURE**
Subject Code: 21CS34

- CO1. Explain the organization and architecture of computer systems with machine instructions and programs.
- CO2. Analyze the input/output devices communicating with computer system
- CO3. Demonstrate the functions of different types of memory devices
- CO4. Apply different data types on simple arithmetic and logical unit
- CO5. Analyze the functions of basic processing unit, Parallel processing and pipelining

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 modelling 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: recognition of the need for, and an ability to engage in, to resolve Contemporary issues and acquire lifelong learning.



SHRIDEVI
EDUCATION

Sri Shridevi Charitable Trust (R.)
SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY

Sira Road, Tumkur - 572 106, Karnataka, India.

Phone: 0816 - 2212629 | Principal: 0816 - 2212627, 9686114899 | Telefax: 0816 - 2212628

Email: info@shrideviengineering.org, principal@shrideviengineering.org | Website: www.shrideviengineering.org

(Approved by AICTE, New Deihl, Recognised by Govt. of Karnataka and Affiliated to Visvesvaraya Technological University, Belagavi)

ESTD: 2002



COLLEGE		SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY															
FACULTY NAME		Mr. CHETHAN M S															
BRANCH		CSE				ACADEMIC YEAR				2022-2023							
COURSE	B.E	SEMESTER				III		SECTION				A					
SUBJECT	COMPUTER ORGANIZATION AND ARCHITECTURE						SUBJECT CODE				21CS34						
CO & PO MAPPING																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3		
CO1	3	2	1	-	-	1	-	-	-	-	-	1	3	2	2		
CO2	3	3	1	-	-	-	-	-	-	-	-	1	3	2	2		
CO3	3	2	2	-	-	1	-	-	-	-	-	1	3	2	3		
CO4	3	3	2	-	-	-	-	-	-	-	-	1	3	2	3		
CO5	3	2	1	-	-	-	-	-	-	-	-	1	3	2	3		
AVG	3	2.5	1.4	-	-	0.4	-	-	-	-	-	1.0	3.0	2.0	2.6		
OVERALL MAPPING OF SUBJECT												1.98					

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	58.7	1.76	1.17	0.58			0.58						0.58	1.76	1.17	1.17
CO2	53.9	1.61	1.61	0.53									0.53	1.61	1.07	1.07
CO3	52.9	1.58	1.05	1.05			0.52						0.52	1.58	1.05	1.58
CO4	63.9	1.90	1.90	1.27									0.63	1.90	1.27	1.90
CO5	63.1	1.89	1.26	0.63									0.63	1.89	1.26	1.89
AVERAGE		1.74	1.39	0.80			0.55						0.57	1.74	1.16	1.52
FINAL ATTAINMENT LEVEL													1.18			

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Computer Organization			Sem:III 'A' SEC					2022-23					EVEN					FACULTY NAME : Chethan M S										TOTAL AVG
Roll No.	USN	Name	21CS34			T1			T2		T3		ASSIGN 10+Seminar 20-30					EXTERNAL					Final					
			T1	T2	T3	CO1-20	CO2-10	CO3-10	CO4-10	CO5-10	CO1-	CO2-	CO3-	CO4-	CO5-	SEE (50)	CO1-	CO2-	CO3-	CO4-	CO5-	CO1-	CO2-	CO3-	CO4-	CO5-		
1	1SV21CS001	AASTHA PANDDY	18	6	18	18	3	3	9	9	6	6	6	6	6	32	6	6	6	6	6	36	26	26	26	26		
2	1SV21CS002	ABDUL MOHSIN J KHAN	14	2	14	14	0	2	7	7	6	6	6	6	6	30	6	6	6	6	6	30	15	15	21	21		
3	1SV21CS003	ABHINAV DEVARAJ T R	6	0	10	6	0	0	5	5	6	6	6	6	6	21	4	4	4	4	4	26	12	14	19	19		
4	1SV21CS004	ABHISHEK RANJAN	6	0	4	6	0	0	2	2	6	6	6	6	6	19	4	4	4	4	4	16	10	10	15	15		
5	1SV21CS005	ABRAR AHAMED I	5	4	8	5	4	0	4	4	6	6	6	6	6	31	6	6	6	6	6	17	16	12	16	16		
6	1SV21CS006	AISHWARYA S	7	7	11	7	4	3	6	5	6	6	6	6	6	24	5	5	5	5	5	18	15	14	17	16		
7	1SV21CS008	ANANYA M J	4	0	5	4	0	0	3	2	6	6	6	6	6	36	7	7	7	7	7	17	13	13	16	15		
8	1SV21CS009	ARSHIYA NAAZ	11	0	7	11	0	0	4	3	6	6	6	6	6	20	4	4	4	4	4	21	10	10	14	13		
9	1SV21CS010	BHARATH M H	7	4	8	7	2	2	4	4	6	6	6	6	6	38	8	8	8	8	8	21	16	16	18	18		
10	1SV21CS011	BHAVANA M R	6	3	11	6	0	3	5	6	6	6	6	6	6	18	4	4	4	4	4	16	10	13	15	16		
11	1SV21CS012	BHAVYA A	8	6	11	8	3	3	6	5	6	6	6	6	6	33	7	7	7	7	7	21	16	16	19	18		
12	1SV21CS013	BHAVYA S	8	10	9	8	5	5	5	4	6	6	6	6	6	30	6	6	6	6	6	22	15	14	16	16		
13	1SV21CS014	BHOOMIKA Y	10	5	8	10	3	2	4	4	6	6	6	6	6	21	4	4	4	4	4	18	15	15	15	14		
14	1SV21CS015	BHUVAN G RAMALADA	14	7	12	14	4	3	6	6	6	6	6	6	6	34	7	7	7	7	7	27	17	16	19	19		
15	1SV21CS016	BIMMI KUMARI	20	17	20	20	8	9	10	10	6	6	6	6	6	35	7	7	7	7	7	33	21	22	23	23		
16	1SV21CS017	BINDHUSHREE R	8	3	7	8	0	3	4	3	6	6	6	6	6	22	4	4	4	4	4	18	10	13	14	13		
17	1SV21CS018	CHAITHRA P	17	7	15	17	4	3	7	8	6	6	6	6	6	31	6	6	6	6	6	29	16	15	19	20		
18	1SV21CS019	CHAITHRA V	14	4	8	14	2	2	4	4	6	6	6	6	6	28	6	6	6	6	6	26	14	14	16	16		
19	1SV21CS020	CHANDANA G	16	8	16	16	4	4	8	8	6	6	6	6	6	24	5	5	5	5	5	27	15	15	19	19		
20	1SV21CS021	CHANDANA N H	2	0	7	2	0	0	4	3	6	6	6	6	6	22	4	4	4	4	4	12	10	10	14	13		
21	1SV21CS022	CHANDU P	9	13	18	9	6	7	10	8	6	6	6	6	6	36	7	7	7	7	7	22	19	20	23	21		
22	1SV21CS023	CHITHRA J P	12	4	9	12	2	2	5	4	6	6	6	6	6	38	8	8	8	8	8	26	16	16	19	18		
23	1SV21CS024	D P HARSHITHA	11	9	8	11	5	4	4	4	6	6	6	6	6	22	4	4	4	4	4	21	15	14	14	14		
24	1SV21CS025	DARSHAN K	18	11	12	18	5	6	6	6	6	6	6	6	6	39	8	7.8	7.8	7.8	7.8	32	19	20	20	20		
25	1SV21CS026	DHANUSH K R	11	7	15	11	4	3	7	8	6	6	6	6	6	35	7	7	7	7	7	24	17	16	20	21		
26	1SV21CS027	DHEERAJ S	7	0	11	7	0	0	5	6	6	6	6	6	6	19	4	3.8	3.8	3.8	3.8	17	10	10	15	16		
27	1SV21CS028	DIPENDU KUMBHAKAR	11	6	6	11	3	3	3	3	6	6	6	6	6	18	4	3.6	3.6	3.6	3.6	21	13	13	13	13		
28	1SV21CS029	DIVYA A C	11	2	10	11	0	2	5	5	6	6	6	6	6	35	7	7	7	7	7	24	13	15	18	18		
29	1SV21CS030	DIVYA D R	8	6	9	8	3	3	5	4	6	6	6	6	6	38	8	7.6	7.6	7.6	7.6	22	17	17	19	18		
31	1SV21CS032	HARSHITHA B	4	0	1	4	0	0	1	0	6	6	6	6	6	18	4	3.6	3.6	3.6	3.6	14	10	10	11	10		
32	1SV21CS033	HEMANTH YALLAPPA HADAPAD	5	3	16	5	0	3	8	8	6	6	6	6	6	31	6	6.2	6.2	6.2	6.2	17	12	15	20	20		
33	1SV21CS034	HEMASHREE M	4	0	3	4	0	0	3	0	6	6	6	6	6	8	2	1.6	1.6	1.6	1.6	12	8	8	11	8		
34	1SV21CS035	HENJESH K O	18	10	13	18	5	5	6	7	6	6	6	6	6	32	6	6.4	6.4	6.4	6.4	30	17	17	18	19		
35	1SV21CS036	KARUNAKARA L	6	2	8	6	0	2	4	4	6	6	6	6	6	23	5	4.6	4.6	4.6	4.6	17	11	13	15	15		
36	1SV21CS037	KIRAN S	10	1	5	10	0	1	3	2	6	6	6	6	6	28	6	5.6	5.6	5.6	5.6	22	12	13	15	14		
37	1SV21CS038	KISHOR N	13	9	12	13	5	4	6	6	6	6	6	6	6	35	7	7	7	7	7	26	18	17	19	20		
38	1SV21CS039	KUSUMA R	4	0	3	4	0	0	3	0	6	6	6	6	6	20	4	4	4	4	4	14	10	10	13	10		
39	1SV21CS040	LAXMI SONNAD	13	12	18	13	6	6	10	8	6	6	6	6	6	41	8	8.2	8.2	8.2	8.2	27	20	20	24	22		
40	1SV21CS041	LIKITHA T P	7	2	8	7	2	0	4	4	6	6	6	6	6	27	5	5.4	5.4	5.4	5.4	18	13	11	15	15		
41	1SV21CS042	MAMATHA H R	18	1	9	18	1	0	4	5	6	6	6	6	6	39	8	7.8	7.8	7.8	7.8	32	15	14	18	19		
42	1SV21CS043	MANDARA H	7	1	8	7	1	0	4	4	6	6	6	6	6	20	4	4	4	4	4	17	11	10	14	14		
43	1SV21CS044	MANIKANTA M	5	0	6	5	0	0	3	3	6	6	6	6	6	23	5	4.6	4.6	4.6	4.6	16	11	11	14	14		
44	1SV21CS045	MANU S	20	13	15	20	6	7	7	8	6	6	6	6	6	35	7	7	7	7	7	33	19	20	20	21		
45	1SV21CS046	MAYUR KUSHAL PATIL	11	8	12	11	4	4	6	6	6	6	6	6	6	24	5	4.8	4.8	4.8	4.8	22	15	15	17	17		
46	1SV21CS048	MOHAMMED JUNAID PASHA	2	0	4	2	0	0	2	2	6	6	6	6	6	24	5	4.8	4.8	4.8	4.8	13	11	11	13	13		
47	1SV21CS049	NAGAPOOJA M	13	16	14	13	8	8	7	7	6	6	6	6	6	40	8	8	8	8	8	27	22	22	21	21		

Roll No.	USN	Name	21CS34			T1	T2			T3		ASSIGN 10+Seminar 20-30					EXTERNAL					Final					TOTAL AVG			
			T1	T2	T3	CO1-20	CO2-10	CO3-10	CO4-10	CO5-10	CO1-6	CO2-6	CO3-6	CO4-6	CO5-6	SEE (50)	CO1-10	CO2-10	CO3-10	CO4-10	CO5-10	CO1-36	CO2-26	CO3-26	CO4-26	CO5-26				
48	1SV21CS050	NAHIDA K	9	5	15	9	5	0	7	8	6	6	6	6	6	31	6	6.2	6.2	6.2	6.2	21	17	12	19	20	18			
49	1SV21CS051	NANDAN L	2	3	2	2	3	0	2	0	6	6	6	6	6	12	2	2.4	2.4	2.4	2.4	10	11	8	10	8	10			
50	1SV21CS052	P A NIVEDITHA	13	11	16	13	6	5	8	8	6	6	6	6	6	42	8	8.4	8.4	8.4	8.4	27	20	19	22	22	22			
51	1SV21CS053	PANEENDRA E	5	8	9	5	4	4	5	4	6	6	6	6	6	18	4	3.6	3.6	3.6	3.6	15	14	14	15	14	14			
52	1SV21CS054	POOJA G	8	0	5	8	0	0	2	3	6	6	6	6	6	24	5	4.8	4.8	4.8	4.8	19	11	11	13	14	13			
53	1SV21CS055	PRADEEP KUMAR H G	10	3	16	10	3	0	8	8	6	6	6	6	6	35	7	7	7	7	7	23	16	13	21	21	19			
54	1SV21CS056	PRIYANSHU PRASHAD	15	3	9	15	3	0	4	5	6	6	6	6	6	36	7	7.2	7.2	7.2	7.2	28	16	13	17	18	19			
55	1SV21CS057	PUNEETH KUMAR R	12	2	10	12	2	0	5	5	6	6	6	6	6	25	5	5	5	5	5	23	13	11	16	16	16			
56	1SV21CS058	PUNEETH N	5	3	9	5	3	0	4	5	6	6	6	6	6	30	6	6	6	6	6	17	15	12	16	17	15			
57	1SV21CS059	PUNITH KUMAR H S	14	3	12	14	0	3	6	6	6	6	6	6	6	35	7	7	7	7	7	27	13	16	19	19	19			
58	1SV21CS060	RAJAN KUMAR SAH	4	1	10	4	1	0	5	5	6	6	6	6	6	29	6	5.8	5.8	5.8	5.8	16	13	12	17	17	15			
59	1SV21CS062	RAKSHITHA P B	3	2	8	3	2	0	4	4	6	6	6	6	6	13	3	2.6	2.6	2.6	2.6	12	11	9	13	13	11			
60	1SV21CS063	RAMYASHREE N	13	8	14	13	4	4	7	7	6	6	6	6	6	36	7	7.2	7.2	7.2	7.2	26	17	17	20	20	20			
																					20.98	13.91	13.66	16.53	16.31					
																					58.3%	53.5%	52.5%	63.6%	62.7%					

[Signature]
STAFF SIGNATURE

[Signature]
HOD, CSE

HOD,
COMPUTER SCIENCE & ENGG.,
SIET, TUMAKURU-08.

[Signature]
PRINCIPAL
SIET, TUMKUR.

Department of Computer Science and Engineering

2022-2023

COURSE OUTCOMES **Subject: COMPUTER ORGANIZATION AND ARCHITECTURE**
Subject Code: 21CS34

- CO1. Explain the organization and architecture of computer systems with machine instructions and programs.
- CO2. Analyze the input/output devices communicating with computer system
- CO3. Demonstrate the functions of different types of memory devices
- CO4. Apply different data types on simple arithmetic and logical unit
- CO5. Analyze the functions of basic processing unit, Parallel processing and pipelining

PROGRAM OUTCOMES

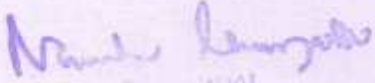
- PO1. Engineering knowledge: An ability to apply knowledge of mathematics (including probability, Statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
- PO2. Problem analysis: Identify, formulate, research literature, and analyze complex engineering 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 modelling 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: 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. CHETHAN M S													
BRANCH		CSE				ACADEMIC YEAR				2022-2023					
COURSE	B.E	SEMESTER				III		SECTION				B			
SUBJECT	COMPUTER ORGANIZATION AND ARCHITECTURE						SUBJECT CODE				21CS34				
CO & PO MAPPING															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	1	-	-	1	-	-	-	-	-	1	3	2	2
CO2	3	3	1	-	-	-	-	-	-	-	-	1	3	2	2
CO3	3	2	2	-	-	1	-	-	-	-	-	1	3	2	3
CO4	3	3	2	-	-	-	-	-	-	-	-	1	3	2	3
CO5	3	2	1	-	-	-	-	-	-	-	-	1	3	2	3
AVG	3	2.5	1.4	-	-	0.4	-	-	-	-	-	1.0	3.0	2.0	2.6
OVERALL MAPPING OF SUBJECT												1.98			

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	52.4	1.57	1.04	0.52			0.52						0.52	1.57	1.04	1.04
CO2	52.9	1.58	1.58	0.52									0.52	1.58	1.05	1.05
CO3	52.8	1.58	1.05	1.05			0.52						0.52	1.58	1.05	1.58
CO4	58.8	1.76	1.76	1.17									0.58	1.76	1.17	1.76
CO5	59.3	1.77	1.18	0.59									0.59	1.77	1.18	1.77
AVERAGE		1.65	1.32	0.77			0.52						0.54	1.65	1.09	1.44
FINAL ATTAINMENT LEVEL													1.22			


 PRINCIPAL
 SIRA, TUMKUR.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

SUB: Computer Organization			Sem:III 'B' SEC					2022-23					EVEN					FACULTY NAME: Chethan M S					TOTAL AVG							
Roll No.	USN	Name	21CS34			T1		T2		T3			ASSIGNMENT 10 + Seminar 20					EXTERNAL						FINAL						
			T1	T2	T3	CO1-20	CO2-10	CO3-10	CO4-10	CO5-10	CO1	CO2	CO3	CO4	CO5	SEE (50)	CO1-10	CO2-10	CO3-10	CO4-10	CO5-10	CO1-36		CO2-26	CO3-26	CO4-26	CO5-26			
1	1SV21CS064	ROJA G	6	7	4	6	4	3	2	2	6	6	6	6	6	6	1	1	1	1	1	13	11	10	9	9	11			
2	1SV21CS065	SAHANA D N	0	1	4	0	0	1	2	2	6	6	6	6	6	6	1	1	1	1	1	10	10	11	12	12	11			
3	1SV21CS066	SAHIL MUBARAK	1	1	4	1	0	1	2	2	6	6	6	6	6	11	2	2	2	2	2	9	8	9	10	10	9			
4	1SV21CS067	SANJAY RAMESH NAIK	5	0	9	5	0	0	5	4	6	6	6	6	6	14	3	3	3	3	3	14	9	9	14	13	12			
5	1SV21CS068	SARANYA B	16	0	9	16	0	0	4	5	6	6	6	6	6	31	6	6	6	6	6	28	12	12	16	17	17			
6	1SV21CS069	SHASHIREKHA K.N	0	0	2	0	0	0	0	2	6	6	6	6	6	12	2	2	2	2	2	8	8	8	8	10	9			
7	1SV21CS070	SHREYA T S	15	8	11	15	4	4	5	6	6	6	6	6	6	28	6	6	6	6	6	27	16	16	17	18	18			
8	1SV21CS071	SHREYAS SURESH	12	11	15	12	6	5	7	8	6	6	6	6	6	39	8	8	8	8	8	26	20	19	21	22	21			
9	1SV21CS072	SNEHA G	12	3	10	12	3	0	5	5	6	6	6	6	6	26	5	5	5	5	5	23	14	11	16	16	16			
10	1SV21CS073	SOUMYA	12	11	12	12	6	5	6	6	6	6	6	6	6	35	7	7	7	7	7	25	19	18	19	19	20			
11	1SV21CS074	SOWMYASHRI S	10	5	7	10	3	2	4	3	6	6	6	6	6	20	4	4	4	4	4	20	13	12	14	13	14			
12	1SV21CS075	SOWNDARYA K A	0	6	2	0	3	3	0	2	6	6	6	6	6	20	4	4	4	4	4	10	13	13	10	12	12			
13	1SV21CS076	SPANDANA B GOWDA	11	9	16	11	5	4	8	8	6	6	6	6	6	42	8	8	8	8	8	25	19	18	22	22	22			
14	1SV21CS077	SUJAN TIMMAPPA NAIK	6	3	9	6	2	1	5	4	6	6	6	6	6	25	5	5	5	5	5	17	13	12	16	15	15			
15	1SV21CS078	SUMA M T	14	8	15	14	4	4	7	8	6	6	6	6	6	32	6	6	6	6	6	26	16	16	19	20	20			
16	1SV21CS080	TASMIYA BANU	10	0	4	10	0	0	2	2	6	6	6	6	6	22	4	4	4	4	4	20	10	10	12	12	13			
17	1SV21CS081	UMESH	0	0	2	0	2	0	0	2	6	6	6	6	6	13	3	3	3	3	3	9	11	9	9	11	9			
18	1SV21CS082	VEENA N	8	10	11	8	5	5	6	5	6	6	6	6	6	24	5	5	5	5	5	19	16	16	17	16	17			
19	1SV21CS083	VIDHYA S	5	0	6	5	0	0	3	3	6	6	6	6	6	8	2	2	2	2	2	13	8	8	11	11	10			
20	1SV21CS084	VINAY KUMAR R	2	3	3	2	0	3	3	0	6	6	6	6	6	14	3	3	3	3	3	11	9	12	12	9	10			
21	1SV21CS085	VISHNU THIRTA	2	4	5	2	2	2	2	2	6	6	6	6	6	10	2	2	2	2	2	10	10	10	10	10	10			
22	1SV21CS086	YOJITH SIDDESHWAR G	6	4	11	6	2	2	2	2	6	6	6	6	6	21	4	4	4	4	4	16	12	12	12	12	13			
23	1SV21CS087	ZAINAB FAKRUDDIN	9	6	14	9	3	3	3	3	6	6	6	6	6	23	5	5	5	5	5	20	14	14	14	14	15			
24	1SV22CS400	BHARATH R V	17	4	11	17	2	2	5	6	6	6	6	6	6	19	3.8	3.8	3.8	3.8	3.8	26.8	11.8	11.8	14.8	15.8	16.2			
25	1SV22CS401	CHANDANA T	12	5	13	12	2	3	7	6	6	6	6	6	6	18	3.6	3.6	3.6	3.6	3.6	21.6	11.6	12.6	16.6	15.6	15.6			
26	1SV22CS402	DEEPA S M	14	12	12	14	6	6	6	6	6	6	6	6	6	21	4.2	4.2	4.2	4.2	4.2	24.2	16.2	16.2	16.2	16.2	17.8			
27	1SV22CS403	HANUMANTHARAYA J	16	14	18	16	7	7	10	8	6	6	6	6	6	29	5.8	5.8	5.8	5.8	5.8	27.8	18.8	18.8	21.8	19.8	21.4			
28	1SV22CS404	HITESH KUMAR H	10	10	15	10	5	5	7	8	6	6	6	6	6	20	4	4	4	4	4	20	15	15	17	18	17			
29	1SV22CS405	JYOTHSNA M V	14	12	13	14	6	6	6	7	6	6	6	6	6	24	4.8	4.8	4.8	4.8	4.8	24.8	16.8	16.8	16.8	17.8	18.6			
30	1SV22CS406	LAXMI S	14	15	15	14	7	8	7	8	6	6	6	6	6	30	6	6	6	6	6	26	19	20	19	20	20.8			
31	1SV22CS407	PUNITH G R	8	8	14	8	4	4	7	7	6	6	6	6	6	38	7.6	7.6	7.6	7.6	7.6	21.6	17.6	17.6	20.6	20.6	19.6			
32	1SV22CS408	ROHITH I M	5	8	10	5	4	4	5	5	6	6	6	6	6	24	4.8	4.8	4.8	4.8	4.8	15.8	14.8	14.8	15.8	15.8	15.4			
33	1SV22CS409	SAHANA S	14	5	14	14	2	3	7	7	6	6	6	6	6	20	4	4	4	4	4	24	12	13	17	17	16.6			
34	1SV22CS410	SANJAY S	11	3	10	11	1	2	5	5	6	6	6	6	6	29	5.8	5.8	5.8	5.8	5.8	22.8	12.8	13.8	16.8	16.8	16.6			
35	1SV22CS411	SREE VANI R	20	13	15	20	6	7	7	8	6	6	6	6	6	32	6.4	6.4	6.4	6.4	6.4	0	18.4	19.4	19.4	20.4	15.52			
36	1SV22CS412	YASHASWINI K	11	10	12	11	5	5	6	6	6	6	6	6	6	27	5.4	5.4	5.4	5.4	5.4	22.4	16.4	16.4	17.4	17.4	18			
37	1SV22CS413	MANOJ KUMAR M	10	12	10	10	6	6	5	5	6	6	6	6	6	23	4.6	4.6	4.6	4.6	4.6	20.6	16.6	16.6	15.6	15.6	17			
																					18.86	13.76	13.74	15.28	15.41					
																					52.4%	52.9%	52.8%	58.8%	59.3%					

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Staff Incharge

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 DEPARTMENT OF COMPUTER SCIENCE & ENGG.
 SIET, TUMKUR-08
 PRINCIPAL
 SIET, TUMKUR.



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

COURSE OUTCOME

CO1: Define management, organization, entrepreneur, planning, staffing, ERP and outline their importance in entrepreneurship

CO2: Utilize the resources available effectively through ERP

CO3: Make use of IPRs and institutional support in entrepreneurship

PROGRAM OUTCOMES

P01 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

P02 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

P03 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

P04 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.

P05 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

P06 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

P07 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.

P08 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

P09 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

P010 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

P011 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.

P012 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 SUTHAN R											
BRANCH	CSE			ACADEMIC YEAR				2022-23				
COURSE	B.E	SEMESTER			V	SECTION						
SUBJECT	Management and Entrepreneurship for IT Industry						SUBJECT CODE		18CS51			

CO & PO MAPPING

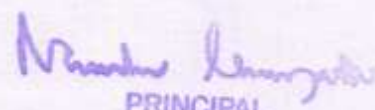
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1		2							2		1	
CO2	3								2	2	2	
CO3								3		2	3	2
AVERAGE	3	2						3	2	2	2	2
OVERALL MAPPING OF SUBJECT												2.29

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	73.69		1.47							1.47		0.74	
CO2	75.14	2.25								1.50	1.50	1.50	
CO3	76.38								2.29		1.53	2.29	1.53
AVERAGE	75.07	2.25	1.47						2.29	1.485	1.515	1.51	1.53
FINAL ATTAINMENT LEVEL													1.72




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	Academic year	2022-23		SEM		Total strength		52	subje				18CS51								
SL NO	SEM:I,SEC: C&A	TEST 1(30M)		TEST 2(30M)		TEST 3(30M)		MENT / QUIZ			SEE MARKS(60)			Total Cos ATTAINMENT			% of individual CO			SEE Tot	
	USN	CO1	TOTAL	CO2	TOTAL	CO3	TOTAL	CO1	CO2	CO3	CO1=20	CO2	CO3	CO1=53	CO2=53	CO3=54	CO1	CO2	CO3	60M	
1	1SV20CS001	23	23	29	29	30	30	3	3	4	15	15	14	41	47	48	77.4	88.7	88.9	44	15
2	1SV20CS002	29	29	29	29	30	30	3	3	4	14	14	13	46	46	47	86.8	86.8	87.0	41	14
3	1SV20CS003	29	29	27	27	29	29	3	3	4	15	15	15	47	45	48	88.7	84.9	88.9	45	15
4	1SV20CS004	29	29	29	29	29	29	3	3	4	14	14	13	46	46	46	86.8	86.8	85.2	41	14
5	1SV20CS005	29	29	29	29	30	30	3	3	4	15	15	15	47	47	49	88.7	88.7	90.7	45	15
6	1SV20CS006	29	29	27	27	29	29	3	3	4	15	15	15	47	45	48	88.7	84.9	88.9	45	15
7	1SV20CS007	11	11	15	15	10	10	3	3	4	9	9	9	23	27	23	43.4	50.9	42.6	26	9
8	1SV20CS008	27	27	26	26	27	27	3	3	4	14	14	13	44	43	44	83.0	81.1	81.5	41	14
9	1SV20CS009	29	29	29	29	30	30	3	3	4	15	15	14	47	47	48	88.7	88.7	88.9	44	15
10	1SV20CS010	29	29	20	20	27	27	3	3	4	11	11	11	43	34	42	81.1	64.2	77.8	33	11
11	1SV20CS011	20	20	18	18	23	23	3	3	4	8	8	7	31	29	34	58.5	54.7	63.0	23	8
12	1SV20CS012	26	26	16	16	30	30	3	3	4	12	12	12	41	31	46	77.4	58.5	85.2	36	12
13	1SV20CS013	20	20	22	22	28	28	3	3	4	15	15	15	38	40	47	71.7	75.5	87.0	45	15
14	1SV20CS014	29	29	29	29	29	29	3	3	4	13	13	13	45	45	46	84.9	84.9	85.2	39	13
15	1SV20CS015	22	22	26	26	29	29	3	3	4	12	12	11	37	41	44	69.8	77.4	81.5	35	12
16	1SV20CS016	23	23	27	27	25	25	3	3	4	14	14	14	40	44	43	75.5	83.0	79.6	42	14
17	1SV20CS017	29	29	29	29	30	30	3	3	4	14	14	15	46	46	49	86.8	86.8	90.7	43	14
18	1SV20CS018	29	29	29	29	30	30	3	3	4	15	15	16	47	47	50	88.7	88.7	92.6	46	15
19	1SV20CS019	0	0	13	13	14	14	3	3	4	5	5	4	8	21	22	15.1	39.6	40.7	14	5
20	1SV20CS020	29	29	29	29	30	30	3	3	4	16	16	15	48	48	49	90.6	90.6	90.7	47	16
21	1SV20CS021	27	27	28	28	23	23	3	3	4	16	16	15	46	47	42	86.8	88.7	77.8	47	16
22	1SV20CS022	27	27	27	27	26	26	3	3	4	14	14	13	44	44	43	83.0	83.0	79.6	41	14
23	1SV20CS023	20	20	22	22	22	22	3	3	4	10	10	11	33	35	37	62.3	66.0	68.5	31	10
24	1SV20CS024	25	25	24	24	25	25	3	3	4	15	15	14	43	42	43	81.1	79.2	79.6	44	15
25	1SV20CS025	17	17	12	12	11	11	3	3	4	8	8	8	28	23	23	52.8	43.4	42.6	24	8
26	1SV20CS026	8	8	12	12	8	8	3	3	4	11	11	11	22	26	23	41.5	49.1	42.6	33	11
27	1SV20CS028	17	17	20	20	22	22	3	3	4	10	10	10	30	33	36	56.6	62.3	66.7	30	10
28	1SV20CS029	29	29	29	29	27	27	3	3	4	9	9	10	41	41	41	77.4	77.4	75.9	28	9
29	1SV20CS031	26	26	26	26	27	27	3	3	4	16	16	15	45	45	46	84.9	84.9	85.2	47	16
30	1SV20CS032	0	0	15	15	18	18	3	3	4	12	12	12	15	30	34	28.3	56.6	63.0	36	12
31	1SV20CS033	17	17	22	22	23	23	3	3	4	12	12	12	32	37	39	60.4	69.8	72.2	36	12
32	1SV20CS034	29	29	24	24	30	30	3	3	4	17	17	17	49	44	51	92.5	83.0	94.4	51	17
33	1SV20CS035	25	25	29	29	23	23	3	3	4	15	15	16	43	47	43	81.1	88.7	79.6	46	15
34	1SV20CS036	26	26	27	27	26	26	3	3	4	8	8	8	37	38	38	69.8	71.7	70.4	23	8
35	1SV20CS037	29	29	26	26	27	27	3	3	4	13	13	14	45	42	45	84.9	79.2	83.3	40	13

36	ISV20CS038	8	8	20	20	13	13	3	3	4	5	5	5	16	28	22	30.2	52.8	40.7	15	5
37	ISV20CS039	29	29	29	29	30	30	3	3	4	17	17	17	49	49	51	92.5	92.5	94.4	51	17
38	ISV20CS040	29	29	29	29	29	29	3	3	4	16	16	16	48	48	49	90.6	90.6	90.7	48	16
39	ISV20CS041	21	21	17	17	15	15	3	3	4	12	12	13	36	32	32	67.9	60.4	59.3	37	12
40	ISV20CS042	26	26	29	29	29	29	3	3	4	11	11	10	40	43	43	75.5	81.1	79.6	32	11
41	ISV20CS045	19	19	16	16	23	23	3	3	4	9	9	8	31	28	35	58.5	52.8	64.8	26	9
42	ISV20CS046	17	17	13	13	10	10	3	3	4	10	10	10	30	26	24	56.6	49.1	44.4	30	10
43	ISV20CS047	23	23	23	23	26	26	3	3	4	12	12	13	38	38	43	71.7	71.7	79.6	37	12
44	ISV20CS048	23	23	22	22	8	8	3	3	4	13	13	13	39	38	25	73.6	71.7	46.3	39	13
45	ISV20CS049	4	4	8	8	22	22	3	3	4	14	14	13	21	25	39	39.6	47.2	72.2	41	14
46	ISV20CS050	29	29	29	29	30	30	3	3	4	15	15	14	47	47	48	88.7	88.7	88.9	44	15
47	ISV20CS051	29	29	27	27	28	28	3	3	4	12	12	13	44	42	45	83.0	79.2	83.3	37	12
48	ISV20CS052	23	23	29	29	26	26	3	3	4	8	8	9	34	40	39	64.2	75.5	72.2	25	8
49	ISV20CS053	29	29	29	29	27	27	3	3	4	14	14	15	46	46	46	86.8	86.8	85.2	41	14
50	ISV20CS054	30	30	30	30	30	30	3	3	4	16	16	16	49	49	50	92.5	92.5	92.6	48	16
51	ISV20CS055	29	29	30	30	26	26	3	3	4	17	17	17	49	50	47	92.5	94.3	87.0	51	17
52	ISV20CS056	29	29	29	29	28	28	3	3	4	17	17	18	49	49	50	92.5	92.5	92.6	52	17
																	73.7	75.15	76.39	38.2	45
																					63.7

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COMPUTER SCIENCE & ENGG.,
SIET, TUMAKURU-06.

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PRINCIPAL
SIET, TUMAKURU.

Department of Computer Science and Engineering

COURSE OUTCOME

- CO1. Explain principles of application layer protocols
- CO2. Recognize transport layer services and infer UDP and TCP protocols
- CO3. Classify routers, IP and Routing Algorithms in network layer.
- CO4. Understand the Wireless and Mobile Networks covering IEEE 802.11 Standard
- CO5. Describe Multimedia Networking and Network 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.
- 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. AYESHA KHANUM														
BRANCH	CSE			ACADEMIC YEAR				2022-23							
COURSE	B.E	SEMESTER			V	SECTION									
SUBJECT	COMPUTER NETWORKS AND SECURITY						SUBJECT CODE			18CS52					
CO & PO MAPPING															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	1			1	1					2	3	1	2
CO2	3	3	2	2	3	1	1					2	3	1	2
CO3	3	3	2	3	3	1	1					2	3	2	2
CO4	2	1		2	3	1	1					3	2	1	3
CO5	1			1		1	1					1	1	1	2
AVERAGE	2.4	2.25	1.6	2	3	1	1					2	2.4	1.2	2.2
OVERALL MAPPING OF SUBJECT												1.91			

CO - PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	56.8	1.70	1.13	0.56			0.56	0.56					1.13	1.70	0.56	1.13
CO2	69	2.07	2.07	1.38	1.38	2.07	0.69	0.69					1.38	2.07	0.69	1.38
CO3	68	2.04	2.04	1.36	2.04	2.04	0.68	0.68					1.36	2.04	1.36	1.36
CO4	70.4	1.40	0.70		1.40	2.11	0.70	0.70					2.11	1.40	0.70	2.11
CO5	69	0.69			0.69		0.69	0.69					0.69	0.69	0.69	1.38
AVERAGE	1.58	1.48	1.1	1.37	2.07	0.66	0.66						1.33	1.58	0.8	1.47
FINAL ATTAINMENT LEVEL													1.28			

Roll No.	USN	Name	Sem:V			2022-23					EVEN					SUB:Computer Network and Security(CNS)					FACULTY: Ms Ayesha Khanum					TOTAL AVG			
			18CS52			T1		T2			T3			ASSIGNMENT 10/5					EXTERNAL					Final					
			T1	T2	T3	CO1-30	CO2-15	CO3-15	CO4-15	CO5-15	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	SEE(60)	CO1-12	CO2-12	CO3-12	CO4-12	CO5-12	CO1-44	CO2-29	CO3-29	CO4-29		CO5-29		
1	1SV20CS001	ANUSHA B S	20	27	29	20	13	14	15	14	2	2	2	2	2	37	7.4	7.4	7.4	7.4	7.4	29.4	22.4	23.4	24.4	23.4	24.6		
2	1SV20CS002	ANUSHA R.	20	30	30	20	15	15	15	15	2	2	2	2	2	52	10.4	10.4	10.4	10.4	10.4	32.4	27.4	27.4	27.4	27.4	28.4		
3	1SV20CS003	ASFA KHANUM	29	29	27	29	15	14	14	13	2	2	2	2	2	47	9.4	9.4	9.4	9.4	9.4	40.4	26.4	25.4	25.4	24.4	28.4		
4	1SV20CS004	ASHA	24	29	27	24	15	14	13	14	2	2	2	2	2	38	7.6	7.6	7.6	7.6	7.6	33.6	24.6	23.6	22.6	23.6	25.6		
5	1SV20CS005	ASHWINI S	29	29	27	29	14	15	14	13	2	2	2	2	2	32	6.4	6.4	6.4	6.4	6.4	37.4	22.4	23.4	22.4	21.4	25.4		
6	1SV20CS006	BORISH KONGBRAILATPAM	23	28	27	23	14	14	14	13	2	2	2	2	2	42	8.4	8.4	8.4	8.4	8.4	33.4	24.4	24.4	24.4	23.4	26		
7	1SV20CS007	DHEERAJ KUMAR P.	4	18	28	4	10	8	14	14	2	2	2	2	2	8	1.6	1.6	1.6	1.6	1.6	7.6	13.6	11.6	17.6	17.6	13.6		
8	1SV20CS008	DIBESH SRESTHA	10	18	28	10	10	8	14	14	2	2	2	2	2	35	7	7	7	7	7	19	19	17	23	23	20.2		
9	1SV20CS009	EMILY LAURA	22	30	23	22	15	15	11	12	2	2	2	2	2	41	8.2	8.2	8.2	8.2	8.2	32.2	25.2	25.2	21.2	22.2	25.2		
10	1SV20CS010	G MALINGARAYA	18	27	27	18	14	13	14	13	2	2	2	2	2	33	6.6	6.6	6.6	6.6	6.6	26.6	22.6	21.6	22.6	21.6	23		
11	1SV20CS011	GIRISHA V	14	23	27	14	11	12	13	14	2	2	2	2	2	24	4.8	4.8	4.8	4.8	4.8	20.8	17.8	18.8	19.8	20.8	19.6		
12	1SV20CS012	H R. ABHINANDAN	21	25	27	21	12	13	14	13	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	27.2	18.2	19.2	20.2	19.2	20.8		
13	1SV20CS013	HABIBULLA SADIK MULLA	14	21	27	14	10	11	14	13	2	2	2	2	2	33	6.6	6.6	6.6	6.6	6.6	22.6	18.6	19.6	22.6	21.6	21		
14	1SV20CS014	HARSHITHA T A	29	30	27	29	15	15	13	14	2	2	2	2	2	48	9.6	9.6	9.6	9.6	9.6	40.6	26.6	26.6	24.6	25.6	28.8		
15	1SV20CS015	JAHIDUL ISLAM	18	27	28	18	14	13	14	14	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	25.4	21.4	20.4	21.4	21.4	22		
16	1SV20CS016	JAYANTH D S	14	20	24	14	10	10	12	12	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	20.2	16.2	16.2	18.2	18.2	17.8		
17	1SV20CS017	KAVYA M	12	30	30	12	15	15	15	15	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	19.2	22.2	22.2	22.2	22.2	21.6		
18	1SV20CS018	KEERTHANA KUMBAR	15	18	28	15	10	8	14	14	2	2	2	2	2	36	7.2	7.2	7.2	7.2	7.2	24.2	19.2	17.2	23.2	23.2	21.4		
19	1SV20CS019	M P SHISHIER	0	18	28	0	10	8	14	14	2	2	2	2	2	4	0.8	0.8	0.8	0.8	0.8	2.8	12.8	10.8	16.8	16.8	12		
20	1SV20CS020	MADHURA SHREE M	29	30	30	29	15	15	15	15	2	2	2	2	2	34	6.8	6.8	6.8	6.8	6.8	37.8	23.8	23.8	23.8	23.8	26.6		
21	1SV20CS021	MAJMAANJUM	24	30	28	24	15	15	14	14	2	2	2	2	2	25	5	5	5	5	5	31	22	22	21	21	23.4		
22	1SV20CS022	MAMATHA K	22	27	27	22	14	13	14	13	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	28.2	20.2	19.2	20.2	19.2	21.4		
23	1SV20CS023	MANOJ KUMAR PATIL	15	18	18	15	10	8	10	8	2	2	2	2	2	12	2.4	2.4	2.4	2.4	2.4	19.4	14.4	12.4	14.4	12.4	14.6		
24	1SV20CS024	MANTESH H RANGARADDI	18	27	27	18	14	13	14	13	2	2	2	2	2	35	7	7	7	7	7	27	23	22	23	22	23.4		
25	1SV20CS025	MOHAMMED NABIL	12	14	9	12	7	7	5	4	2	2	2	2	2	9	1.8	1.8	1.8	1.8	1.8	15.8	10.8	10.8	8.8	7.8	10.8		
26	1SV20CS026	MOHAMMED OWAIS KHAN	12	18	28	12	10	8	14	14	2	2	2	2	2	6	1.2	1.2	1.2	1.2	1.2	15.2	13.2	11.2	17.2	17.2	14.8		
27	1SV20CS028	MONIKA A	10	20	15	10	10	10	7	8	2	2	2	2	2	34	6.8	6.8	6.8	6.8	6.8	18.8	18.8	18.8	15.8	16.8	17.8		
28	1SV20CS029	MYTHRI B N	23	23	27	23	11	12	14	13	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	30.4	18.4	19.4	21.4	20.4	22		
29	1SV20CS031	NAYANA D G	21	30	18	21	15	15	10	8	2	2	2	2	2	35	7	7	7	7	7	30	24	24	19	17	22.8		
30	1SV20CS032	NETHRA PRASAD D R	0	18	28	0	10	8	14	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	6.2	16.2	14.2	20.2	20.2	15.4		
31	1SV20CS033	PARTHA H R	5	21	18	5	10	11	10	8	2	2	2	2	2	30	6	6	6	6	6	13	18	19	18	16	16.8		
32	1SV20CS034	PUSHPRAJ	24	29	13	24	15	14	6	7	2	2	2	2	2	42	8.4	8.4	8.4	8.4	8.4	34.4	25.4	24.4	16.4	17.4	23.6		
33	1SV20CS035	RAHUL AJITH KUMBAR	19	23	23	19	11	12	12	11	2	2	2	2	2	33	6.6	6.6	6.6	6.6	6.6	27.6	19.6	20.6	20.6	19.6	21.6		
34	1SV20CS036	ROUSHANI BEGUM	29	29	30	29	15	14	15	15	2	2	2	2	2	35	7	7	7	7	7	38	24	23	24	24	26.6		
35	1SV20CS037	SADASHISH KUMAR BHOKTA	0	27	27	0	14	13	14	13	2	2	2	2	2	42	8.4	8.4	8.4	8.4	8.4	10.4	24.4	23.4	24.4	23.4	21.2		
36	1SV20CS038	SAGAR S K	9	15	27	9	8	7	14	13	2	2	2	2	2	10	2	2	2	2	2	13	12	11	18	17	14.2		
37	1SV20CS039	SANIYA SARDAR	26	30	27	26	15	15	14	13	2	2	2	2	2	38	7.6	7.6	7.6	7.6	7.6	35.6	24.6	24.6	23.6	22.6	26.2		
38	1SV20CS040	SEKH FARDEEN	19	27	27	19	14	13	14	13	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	26.2	21.2	20.2	21.2	20.2	21.8		

Roll No.	USN	Name	Sem:V			2022-23		EVEN		SUB:Computer Network and Security(CNS)					FACULTY: Ms Ayesha Khanum										TOTAL AVG					
			18CS52			T1	T2	T3		ASSIGNMENT 10/5					EXTERNAL					Final										
			T1	T2	T3	CO1-30	CO2-15	CO3-15	CO4-15	CO5-15	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	SEE(60)	CO1-12	CO2-12	CO3-12	CO4-12	CO5-12	CO1-44	CO2-29	CO3-29		CO4-29	CO5-29			
39	1SV20CS041	SHAIK RABBANI	13	20	14	13	10	10	7	7	2	2	2	2	2	22	4.4	4.4	4.4	4.4	4.4	19.4	16.4	16.4	13.4	13.4	15.8			
40	1SV20CS042	SHARIBA FIRDOSE	24	29	29	24	15	14	15	14	2	2	2	2	2	36	7.2	7.2	7.2	7.2	7.2	33.2	24.2	23.2	24.2	23.2	25.6			
42	1SV20CS045	SHRAVANAKUMARA T	25	25	27	25	12	13	14	13	2	2	2	2	2	29	5.8	5.8	5.8	5.8	5.8	32.8	19.8	20.8	21.8	20.8	23.2			
43	1SV20CS046	SIDHANT PANDIT	12	12	15	12	6	6	7	8	2	2	2	2	2	24	4.8	4.8	4.8	4.8	4.8	18.8	12.8	12.8	13.8	14.8	14.6			
44	1SV20CS047	SMRITI DEWANGAN	18	28	27	18	14	14	14	13	2	2	2	2	2	35	7	7	7	7	7	27	23	23	23	22	23.6			
45	1SV20CS048	SOUVIK KARAK	10	14	23	10	7	7	12	11	2	2	2	2	2	29	5.8	5.8	5.8	5.8	5.8	17.8	14.8	14.8	19.8	18.8	17.2			
46	1SV20CS049	SRIKIRAN B	0	21	18	0	10	11	10	8	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	6.2	16.2	17.2	16.2	14.2	14			
47	1SV20CS050	SUSHMITHA K	27	25	29	27	12	13	15	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	33.2	18.2	19.2	21.2	20.2	22.4			
48	1SV20CS051	TEJASHWINI R	24	28	27	24	14	14	14	13	2	2	2	2	2	36	7.2	7.2	7.2	7.2	7.2	33.2	23.2	23.2	23.2	22.2	25			
49	1SV20CS052	TEJESHWAR T R	16	27	27	16	14	13	13	14	2	2	2	2	2	34	6.8	6.8	6.8	6.8	6.8	24.8	22.8	21.8	21.8	22.8	22.8			
50	1SV20CS053	USHA B N	24	28	28	24	14	14	14	14	2	2	2	2	2	48	9.6	9.6	9.6	9.6	9.6	35.6	25.6	25.6	25.6	25.6	27.6			
51	1SV20CS054	VAISHNAVI BHUSHAN	29	27	27	29	14	13	13	14	2	2	2	2	2	53	10.6	10.6	10.6	10.6	10.6	41.6	26.6	25.6	25.6	26.6	29.2			
52	1SV20CS055	VARSHITHA T N	5	25	24	5	12	13	12	12	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	12.2	19.2	20.2	19.2	19.2	18			
53	1SV20CS056	VENKATESH DALAWAI	27	29	27	27	14	15	14	13	2	2	2	2	2	30	6	6	6	6	6	35	22	23	22	21	24.6			
																					24.98	20.00	19.71	20.41	20.00					
																					56.8%	69%	68%	70.4%	69%					

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H.O.D.
COMPUTER SCIENCE & ENGG.
SIET, TUMAKURU-06.

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PRINCIPAL
SIET, TUMKURU
 S. J.R.



SHRIDEVI
EDUCATION

(Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka and Affiliated to Visvesvaraya Technological University, Belagavi)

Sri Shridevi Charitable Trust (R.)

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY

Sira Road, Tumkur - 572 106, Karnataka, India.

Phone: 0816 - 2212629 | Principal: 0816 - 2212627, 9666114899 | Telefax: 0816 - 2212628

Email: info@shrideviengineering.org, principal@shrideviengineering.org | Website: www.shrideviengineering.org

ESTD: 2002



Department of Computer Science and Engineering

COURSE OUTCOME

- CO1. Summarize the concepts of database objects; enforce integrity constraints on a database using RDBMS.
- CO2. Use Structured Query Language (SQL) for database manipulation.
- CO3. Design simple database systems for some application to interact with databases.
- CO4. Implement normalization algorithms using database design theory for different applications.

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. SHRUTHI S														
BRANCH	CSE			ACADEMIC YEAR				2022-23							
COURSE	B.E	SEMESTER			V	SECTION									
SUBJECT	DATABASE MANAGEMENT SYSTEM					SUBJECT CODE				18CS53					
CO & PO MAPPING															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	1	-	-	-	-	-	-	-	-	2	2	-	-
CO2	2	1	2	1	3	-	-	-	-	-	-	1	3	-	-
CO3	2	1	2	1	2	-	-	-	-	-	-	1	2	-	-
CO4	2	3	-	-	1	-	-	-	-	-	-	2	3	-	-
AVERAGE	2.25	1.75	1.66	1.5	2	-	-	-	-	-	-	1.5	2.5	-	-
OVERALL MAPPING OF SUBJECT												1.88			

CO - PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	64.4	1.93	1.28	0.64	-	-	-	-	-	-	-	-	1.28	1.28	-	-
CO2	70.2	1.40	0.70	1.40	0.70	2.10	-	-	-	-	-	-	0.70	2.10	-	-
CO3	67.8	1.35	0.67	1.35	0.67	1.35	-	-	-	-	-	-	0.67	1.35	-	-
CO4	68.4	1.36	2.05	-	-	0.68	-	-	-	-	-	-	1.36	2.05	-	-
AVERAGE		1.51	1.17	1.13	0.68	1.37	-	-	-	-	-	-	1.0	1.69	-	-
FINAL ATTAINMENT LEVEL													1.22			

Roll No.	USN	Name	Sem:V		2022-23		EVEN		SUB:Database Management System(DBMS)								FACULTY: Ms.Shruthi S						
			18CS53			T1	T2	T3		ASSIGNMENT 10/4				EXTERNAL				Final				TOT AVG	
			T1	T2	T3	CO1-30	CO2-30	CO3-15	CO4-15	CO1-2	CO2-3	CO3-2	CO4-3	SEE (60)	CO1-15	CO2-15	CO3-15	CO4-15	CO1-47	CO2-48	CO3-32		CO4-33
1	1SV20CS001	ANUSHA B S	29	23	28	29	23	14	14	2	3	2	3	38	9.5	9.5	9.5	9.5	41	36	26	27	32
2	1SV20CS002	ANUSHA R	30	30	29	30	30	15	14	2	3	2	3	33	8.25	8.25	8.3	8.25	40	41	25	25	33
3	1SV20CS003	ASFA KHANUM	30	30	29	30	30	15	14	2	3	2	3	42	10.5	10.5	11	10.5	43	44	28	28	35
4	1SV20CS004	ASHA	27	27	27	27	27	14	13	2	3	2	3	21	5.25	5.25	5.3	5.25	34	35	21	21	28
5	1SV20CS005	ASHWINI S	30	30	25	30	30	13	12	2	3	2	3	32	8	8	8	8	40	41	23	23	32
6	1SV20CS006	BORISH KONGBRAILATPAM	30	29	28	30	29	14	14	2	3	2	3	41	10.3	10.25	10	10.25	42	42	26	27	35
7	1SV20CS007	DHEERAJ KUMAR P	0	20	23	0	20	12	11	2	3	2	3	22	5.5	5.5	5.5	5.5	8	29	20	20	19
8	1SV20CS008	DIBESH SRESTHA	22	23	23	22	23	11	12	2	3	2	3	34	8.5	8.5	8.5	8.5	33	35	22	24	28
9	1SV20CS009	EMILY LAURA	30	30	30	30	30	15	15	2	3	2	3	48	12	12	12	12	44	45	29	30	37
10	1SV20CS010	G MALINGARAYA	29	29	29	29	29	14	15	2	3	2	3	29	7.25	7.25	7.3	7.25	38	39	23	25	32
11	1SV20CS011	GIRISHA V	26	26	21	26	26	10	11	2	3	2	3	21	5.25	5.25	5.3	5.25	33	34	17	19	26
12	1SV20CS012	H R ABHINANDAN	25	29	27	25	29	14	13	2	3	2	3	21	5.25	5.25	5.3	5.25	32	37	21	21	28
13	1SV20CS013	HABIBULLA SADIK MULLA	18	30	20	18	30	10	10	2	3	2	3	33	8.25	8.25	8.3	8.25	28	41	20	21	28
14	1SV20CS014	HARSHITHA T A	30	30	26	30	30	13	13	2	3	2	3	38	9.5	9.5	9.5	9.5	42	43	25	26	34
15	1SV20CS015	JAHIDUL ISLAM	26	26	27	26	26	14	13	2	3	2	3	36	9	9	9	9	37	38	25	25	31
16	1SV20CS016	JAYANTH D S	14	30	24	14	30	12	12	2	3	2	3	46	11.5	11.5	12	11.5	28	45	26	27	31
17	1SV20CS017	KAVYA M	29	24	26	29	24	13	13	2	3	2	3	22	5.5	5.5	5.5	5.5	37	33	21	22	28
18	1SV20CS018	KEERTHANA KUMBAR	23	27	25	23	27	12	13	2	3	2	3	24	6	6	6	6	31	36	20	22	27
19	1SV20CS019	M P SHISHIER		14	19		14	14	15	2	3	2	3	14	3.5	3.5	3.5	3.5	6	21	20	22	17
20	1SV20CS020	MADHURA SHREE M	26	29	28	26	29	14	14	2	3	2	3	45	11.3	11.25	11	11.25	39	43	27	28	35
21	1SV20CS021	MAJMAANJUM	30	29	29	30	29	15	14	2	3	2	3	34	8.5	8.5	8.5	8.5	41	41	26	26	33
22	1SV20CS022	MAMATHA K	21	26	24	21	26	12	12	2	3	2	3	36	9	9	9	9	32	38	23	24	29
23	1SV20CS023	MANOJ KUMAR PATIL	14	12	23	14	12	12	11	2	3	2	3	21	5.25	5.25	5.3	5.25	21	20	19	19	20
24	1SV20CS024	MANTESH H RANGARADDI	14	29	28	14	29	14	14	2	3	2	3	29	7.25	7.25	7.25	7.25	23	39	23	24	28
25	1SV20CS025	MOHAMMED NABIL	18	14	17	18	14	14	13	2	3	2	3	12	3	3	3	3	23	20	19	19	20
26	1SV20CS026	MOHAMMED OWAIS KHAN	7	9	25	7	9	12	13	2	3	2	3	8	2	2	2	2	11	14	16	18	15
27	1SV20CS028	MONIKA A	14	14	20	14	14	10	10	2	3	2	3	21	5.25	5.25	5.25	5.25	21	22	17	18	20
28	1SV20CS029	MYTHRI B N	22	22	23	22	22	11	12	2	3	2	3	18	4.5	4.5	4.5	4.5	29	30	18	20	24
29	1SV20CS031	NAYANA D G	26	24	26	26	24	13	13	2	3	2	3	33	8.25	8.25	8.25	8.25	36	35	23	24	30
30	1SV20CS032	NETHRA PRASAD D R	30	20	16	30	20	10	16	2	3	2	3	27	6.75	6.75	6.75	6.75	39	30	19	26	28
31	1SV20CS033	PARTHA H R	12	19	21	12	19	10	11	2	3	2	3	31	7.75	7.75	7.75	7.75	22	30	20	22	23
32	1SV20CS034	PUSHPRAJ	29	30	27	29	30	14	13	2	3	2	3	13	3.25	3.25	3.25	3.25	34	36	19	19	27
33	1SV20CS035	RAHUL AJITH KUMBAR	26	26	25	26	26	12	13	2	3	2	3	41	10.3	10.25	10.3	10.25	38	39	24	26	32
34	1SV20CS036	ROUSHANI BEGUM	27	29	27	27	29	14	13	2	3	2	3	38	9.5	9.5	9.5	9.5	39	42	26	26	33

35	1SV20CS037	SADASHISH KUMAR BHOKTA	0	26	30	0	26	15	15	2	3	2	3	32	8	8	8	8	10	37	25	26	25
36	1SV20CS038	SAGAR S K	2	14	25	2	14	12	13	2	3	2	3	1	0.25	0.25	0.25	0.25	4	17	14	16	13
37	1SV20CS039	SANIYA SARDAR	30	26	30	30	26	15	15	2	3	2	3	31	7.75	7.75	7.75	7.75	40	37	25	26	32
38	1SV20CS040	SEKH FARDEEN	29	26	29	29	26	15	14	2	3	2	3	21	5.25	5.25	5.3	5.25	36	34	22	22	29
39	1SV20CS041	SHAIK RABBANI	20	19	16	20	19	10	6	2	3	2	3	22	5.5	5.5	5.5	5.5	28	28	18	15	22
40	1SV20CS042	SHARIBA FIRDOSE	27	29	29	27	29	15	14	2	3	2	3	27	6.75	6.75	6.8	6.75	36	39	24	24	31
42	1SV20CS045	SHRAVANAKUMARA T	19	29	29	19	29	14	15	2	3	2	3	39	9.75	9.75	9.8	9.75	31	42	26	28	32
43	1SV20CS046	SIDHANT PANDIT	11	0	30	11	0	15	15	2	3	2	3	8	2	2	2	2	15	5	19	20	15
44	1SV20CS047	SMRITI DEWANGAN	14	26	27	14	26	14	13	2	3	2	3	24	6	6	6	6	22	35	22	22	25
45	1SV20CS048	SOUVIK KARAK	15	15	16	15	15	10	6	2	3	2	3	41	10.3	10.25	10	10.25	27	28	22	19	24
46	1SV20CS049	SRIKIRAN B	5	16	20	5	16	10	10	2	3	2	3	21	5.25	5.25	5.3	5.25	12	24	17	18	18
47	1SV20CS050	SUSHMITHA K	29	28	28	29	28	14	14	2	3	2	3	33	8.25	8.25	8.3	8.25	39	39	24	25	32
48	1SV20CS051	TEJASHWINI R	29	27	29	29	27	15	14	2	3	2	3	32	8	8	8	8	39	38	25	25	32
49	1SV20CS052	TEJESHWAR T R	23	23	15	23	23	7	8	2	3	2	3	11	2.75	2.75	2.8	2.75	28	29	12	14	21
50	1SV20CS053	USHA B N	29	27	29	29	27	14	15	2	3	2	3	43	10.8	10.75	11	10.75	42	41	27	29	35
51	1SV20CS054	VAISHNAVI BHUSHAN	29	30	30	29	30	15	15	2	3	2	3	45	11.3	11.25	11	11.25	42	44	28	29	36
52	1SV20CS055	VARSHITHA T N	26	29	29	26	29	14	15	2	3	2	3	22	5.5	5.5	5.5	5.5	34	38	22	24	29
53	1SV20CS056	VENKATESH DALAWAI	29	30	29	29	30	15	14	2	3	2	3	29	7.25	7.25	7.3	7.25	38	40	24	24	32
																			30.3	33.7	21.7	22.6	
																			64.4%	70.2%	67.8%	68.4%	

Shivell

Bas
HOD.
COMPUTER SCIENCE & ENG.
SIET, TUMAKURU-CL

M. Srinivas
PRINCIPAL
SIET, TUMAKURU



SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

Department of Computer Science and Engineering

COURSE OUTCOME

- C01.** Acquire fundamental understanding of the core concepts in automata theory and Theory of Computation
- C02.** Learn how to translate between different models of Computation (e.g., Deterministic and Non-deterministic and Software models).
- C03.** Design Grammars and Automata (recognizers) for different language classes and become knowledgeable about restricted models of Computation (Regular, Context Free) and their relative powers.
- C04.** Develop skills in formal reasoning and reduction of a problem to a formal model, with an emphasis on semantic precision and conciseness.
- C05.** Classify a problem with respect to different models of Computation

PROGRAM OUTCOMES

- P01** Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
- P02** Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- P03** Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.
- P04** 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.
- P05** Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modelling to complex engineering activities.
- P06** The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.
- P07** 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.
- P08** Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- P09** Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- P010** Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.
- P011** 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.
- P012** 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. KIRAN G M					
BRANCH		CSE		ACADEMIC YEAR		2022-23	
COURSE	B.E	SEMESTER		V	SECTION		
SUBJECT		Automata Theory and Computability			SUBJECT CODE		18CS54

COs	CO-PO-PSO Mapping												PSOs		
	Pos														
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	1	1	-	-	-	-	-	-	-	-	1	-	-	2
CO2	2	-	-	-	-	-	-	-	-	-	-	1	-	-	2
CO3	1	-	-	-	-	-	-	-	-	-	-	1	-	-	2
CO4	1	1	2	-	-	-	-	-	-	-	-	-	-	-	2
CO5	2	2	-	-	-	-	-	-	-	-	-	1	-	-	2
Average	1.8	1.3	1.5	-	-	-	-	-	-	-	-	1.0	-	-	2.0

CO AND PO ATTAINMENT

ATTAINMENT TABLE

COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	73.4	2.20	0.73	0.73									0.73			1.46
CO2	71.6	1.43											0.71			1.43
CO3	71.2	0.71														1.42
CO4	76.8	0.76	0.76	1.53									0.76			1.53
CO5	76.1	1.52	1.52										0.76			1.52
AVERAGE		1.32	1.00	1.13									0.73			1.47

42	1SV20CS046	SIDHANT PANDIT	15	15	27	15	10	5	14	13	2	2	2	2	2	12	2.4	2.4	2.4	2.4	2.4	19.4	14.4	9.4	18.4	17.4	15.8			
43	1SV20CS047	SMBITI DEWANGAN	29	22	30	29	11	11	15	15	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	36.2	18.2	18.2	22.2	22.2	23.4			
44	1SV20CS048	SOUVIK KARAK	20	18	30	20	10	8	15	15	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	27.2	17.2	15.2	22.2	22.2	20.8			
45	1SV20CS049	SRIKIRAN B	5	18	18	5	10	8	10	8	2	2	2	2	2	15	3.0	3.0	3.0	3.0	3.0	10.0	15.0	13.0	15.0	13.0	13.2			
46	1SV20CS050	SUSHMITHA K	30	28	27	30	14	14	14	13	2	2	2	2	2	29	5.8	5.8	5.8	5.8	5.8	37.8	21.8	21.8	21.8	20.8	24.8			
47	1SV20CS051	TEJASHWINI R	29	27	27	29	14	13	14	13	2	2	2	2	2	23	4.6	4.6	4.6	4.6	4.6	35.6	20.6	19.6	20.6	19.6	23.2			
48	1SV20CS052	TEJESHWAR T R	22	24	30	22	12	12	15	15	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	28.2	18.2	18.2	21.2	21.2	21.4			
49	1SV20CS053	USHA B N	30	29	30	30	14	15	15	15	2	2	2	2	2	42	8.4	8.4	8.4	8.4	8.4	40.4	24.4	25.4	25.4	25.4	28.2			
50	1SV20CS054	VAISHNAVI BHUSHAN	30	30	30	30	15	15	15	15	2	2	2	2	2	36	7.2	7.2	7.2	7.2	7.2	39.2	24.2	24.2	24.2	24.2	27.2			
51	1SV20CS055	VARSHITHA T N	29	29	30	29	15	14	15	15	2	2	2	2	2	29	5.8	5.8	5.8	5.8	5.8	36.8	22.8	21.8	22.8	22.8	25.4			
52	1SV20CS056	VENKATESH	30	30	30	30	15	15	15	15	2	2	2	2	2	33	6.6	6.6	6.6	6.6	6.6	32.3	19.3	19.2	20.7	20.5	26.6			
																					73.4	71.6	71.2	76.8	76.1					

Ky

Bal

Nimisha Lakshmi
 PRINCIPAL
 SIET. TUMKUR.

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

SUBJECT	APPLICATION DEVELOPMENT USING PYTHON	SUBJECT CODE	18CS55
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COURSE OUTCOME

- C01.**Demonstrate proficiency in handling of loops and creation of functions.
- C02.**Identify the methods to create and manipulate lists, tuples and dictionaries.
- C03.**Discover the commonly used operations involving regular expressions and file system.
- C04.**Interpret the concepts of Object-Oriented Programming as used in Python
- C05.**Determine the need for scraping websites and working with CSV, JSON and other file formats.

PROGRAM OUTCOMES

- P01** Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
- P02** Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- P03** Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.
- P04** 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.
- P05** Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.
- P06** The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.
- P07** 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.
- P08** Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- P09** Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- P010** Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.
- P011** 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.
- P012** Life-long learning: 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. RENUKARADHYA P.C														
BRANCH	CSE			ACADEMIC YEAR				2022-23							
COURSE	B.E	SEMESTER			V										
SUBJECT	APPLICATION DEVELOPMENT USING PYTHON						SUBJECT CODE			18CS55					

CO & PO MAPPING


	PO 1	PO2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PSO 1	PSO 2	PSO 3
CO1	3	2	2	2	1		1		1			2	3	1	
CO2	3	2	2	3	1	2		2		2	1	2	1		2
CO3	2	2	2	2		1		3	2	1		2	3	1	1
CO4	3	3	1	2	1	1	3			2		1	2		2
CO5	2	3	3	3	2		1		1	2	3		1		3
AVERAGE	2.6	2.4	2	2.4	1.25	1.33	1.33	2.5	1.33	1.75	2	1.75	2	1	2
OVERALL MAPPING OF SUBJECT												1.90			

CO AND PO ATTAINMENT

	CO %	PO1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO 1	64.32	1.92	1.28	1.28	1.28	0.64		0.64		0.64			1.28	1.92	0.64	
CO 2	68.57	2.04	1.36	1.36	2.04	0.68	1.36		1.36		1.36	0.68	1.36	0.68		1.36
CO 3	64.70	1.28	1.28	1.28	1.28		0.64		1.92	1.28	0.64		1.28	1.92	0.64	0.64
CO 4	70.37	2.1	2.1	0.70	1.4	0.70	0.64	2.1			1.4		0.70	1.4		1.4
CO 5	68.02	1.36	2.04	2.04	2.04	1.36		0.68		0.68	1.36	2.04		0.68		2.04
AVERAGE	67.20	1.74	1.612	1.332	1.608	0.845	0.88	1.14	1.64	0.866	1.19	1.36	1.155	1.32	0.64	1.36
FINAL ATTAINMENT LEVEL												1.244				

46	ISV20CS050	SUSHMITHA K	20	20	40	18	18	36	20	20	40	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	27.2	25.2	25.2	27.2	27.2	26	5.2	
47	ISV20CS051	TEJASHWINI R	19	19	38	20	20	40	20	20	40	2	2	2	2	2	8.4	8.4	8.4	8.4	8.4	29.4	30.4	30.4	30.4	30.4	42	8.4	
48	ISV20CS052	TEJESHWAR T R	17	17	34	18	18	36	17	17	34	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	25.6	26.6	26.6	25.6	25.6	33	6.6	
49	ISV20CS053	USHA B N	17	15	32	17	17	34	19	19	38	2	2	2	2	2	7.8	7.8	7.8	7.8	7.8	26.8	26.8	26.8	28.8	28.8	39	7.8	
50	ISV20CS054	VAISHNAVI BHUSHAN	20	20	40	20	20	40	20	20	40	2	2	2	2	2	7.2	7.2	7.2	7.2	7.2	29.2	29.2	29.2	29.2	29.2	36	7.2	
51	ISV20CS055	VARSHITHA T N	17	9	26	17	17	34	18	18	36	2	2	2	2	2	6	6	6	6	6	25	25	25	26	26	30	6	
52	ISV20CS056	VENKATESH DALAWAI	20	20	40	19	19	38	18	18	36	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	28.4	27.4	27.4	26.4	26.4	32	6.4	
																					AVG	21.9	23.3	22	23.9	23.1			
																						PERC	64.3	68.6	64.7	70.4	68		

Signature of Staff


H.O.D.
COMPUTER SCIENCE & ENGG.,
SIET, TUMAKURU-06.


PRINCIPAL
SIET, TUMKUR.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY														
FACULTY NAME	PROF. SHANMUKASWAMY C V														
BRANCH	CS	ACADEMIC YEAR					2022-23								
PROGRAM	B.E	SEMESTER	V	SECTION	A [CSE]										
COURSE NAME	UNIX PROGRAMMING					COURSE CODE			18CS56						
CO & PO MAPPING															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	2	2						3	1			
CO2	3	3	2	2	1	2					2	1	2	1	
CO3	3	3	3	2	2							1	1		
CO4	3	3	3	3	2			1	3		3	3	3	2	
AVERAGE	3.0	3.0	2.5	2.25	1.75	2.0		1.0	3.0		2.6	1.5	2.0	1.5	
OVERALL MAPPING OF COURSE															2.18

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	70.8	2.1	2.1	1.4	1.4	1.4						2.1	0.7			
CO2	66	2.0	2.0	1.3	1.3	0.7	1.3					1.3	0.7	1.3	0.7	
CO3	62.5	1.9	1.9	1.9	1.2	1.2							0.6	0.6		
CO4	68.1	2.0	2.0	2.0	2.0	1.4			0.7	2.0		2.0	2.0	2.0	1.4	
AVERAGE		2.0	2.0	1.7	1.5	1.18	1.3		0.7	2.0		1.8	1.0	1.3	1.05	
FINAL ATTAINMENT LEVEL																1.46

*****END*****

Prof. Shanmukaswamy C V

Bas
HOD,
 COMPUTER SCIENCE & ENGS.,
 SIET, TUMAKURU-06.

Manish Kumar
PRINCIPAL
 SIET, TUMKUR.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
COsPOs ATTAINMENT
ACADEMIC YEAR -2022-23[ODD SEM]

CLASS:5TH SEM CSE

Course Name :Unix Programming [18CS56]

Roll No.	USN	Name	IA TEST I		IA TEST II		IA TEST III		Assignment[10/4]				SEE	SEE [60]				Final CO.s				Individual student %
			CO1 15	CO2 15	CO2 15	CO3 15	CO4 15	CO4 15	CO1 2	CO2 2	CO3 3	CO4 3		CO1 15	CO2 15	CO3 15	CO4 15	CO1 32	CO2 47	CO3 33	CO4 48	
1	1SV20CS001	ANUSHA B S	14	14	15	13	15	14	2	3	3	3	38	9	9	10	10	25	41	26	42	79
2	1SV20CS002	ANUSHA R	15	15	10	3	10	8	2	2	3	3	41	11	10	10	10	28	37	16	31	66
3	1SV20CS003	ASFA KHANUM	14	15	15	15	15	15	2	2	3	3	41	10	11	10	10	26	43	28	43	83
4	1SV20CS004	ASHA	14	15	12	12	12	12	2	2	3	3	26	7	7	6	6	23	36	21	33	67
5	1SV20CS005	ASHWINI S	15	15	15	15	14	15	2	2	3	3	47	12	12	12	11	29	44	30	43	86
6	1SV20CS006	BORISH KONGBRAILATPAM	15	15	15	13	8	14	2	2	3	3	44	11	11	11	11	28	43	27	36	79
7	1SV20CS007	DHEERAJ KUMAR P	0	0	15	14	6	9	2	2	3	3	41	11	10	10	10	13	27	27	28	56
8	1SV20CS008	DIBESH SRESTHA	14	6	7	9	11	12	2	2	3	3	28	7	7	7	7	23	22	19	33	57
9	1SV20CS009	EMILY LAURA	15	15	14	13	15	15	2	2	3	3	28	7	7	7	7	24	38	23	40	74
10	1SV20CS010	G MALINGARAYA	13	10	12	11	14	14	2	2	3	3	48	12	12	12	12	27	36	26	43	78
11	1SV20CS011	GIRISHA V	12	12	0	12	4	12	2	2	3	3	26	6	6	7	7	20	20	22	26	52
12	1SV20CS012	H R ABHINANDAN	13	7	12	13	6	13	2	2	3	3	33	9	8	8	8	24	29	24	30	63
13	1SV20CS013	HABIBULLA SADIK MULLA	14	13	10	13	9	5	2	2	3	3	37	9	9	10	9	25	34	26	26	66
14	1SV20CS014	HARSHITHA T A	13	15	15	14	15	15	2	2	3	3	30	8	8	7	7	23	40	24	40	75
15	1SV20CS015	JAHIDUL ISLAM	14	11	12	8	15	14	2	2	3	3	39	10	10	10	9	26	35	21	41	73
16	1SV20CS016	JAYANTH D S	11	6	6	7	6	12	2	2	3	3	21	5	5	5	6	18	19	15	27	47
17	1SV20CS017	KAVYA M	15	13	15	10	12	14	2	2	3	3	48	12	12	12	12	29	42	25	41	81
18	1SV20CS018	KEERTHANA KUMBAR	7	9	7	6	6	13	2	2	3	3	21	6	5	5	5	15	23	14	27	47
19	1SV20CS019	M P SHISHIER	0	0	6	1	12	11	2	2	3	3	3	1	1	1	0	3	9	5	26	25
20	1SV20CS020	MADHURA SHREE M	15	15	13	15	15	15	2	2	3	3	35	9	9	9	8	26	39	27	41	79
21	1SV20CS021	MAJMAANJUM	14	15	15	8	15	13	2	2	3	3	40	10	10	10	10	26	42	21	41	77
22	1SV20CS022	MAMATHA K	13	14	6	6	14	12	2	2	3	3	26	6	6	7	7	21	28	16	36	60
23	1SV20CS023	MANOJ KUMAR	12	6	7	5	0	6	2	2	3	3	28	7	7	7	7	21	22	15	16	44
24	1SV20CS024	MANTESH H RANGARADDI	13	13	14	11	0	15	2	2	3	3	38	10	10	9	9	25	39	23	27	67

Dr. Sharmila Kavya

HOD.
COMPUTER SCIENCE & ENGG.,
SIET, TUMAKURU-06.

PRINCIPAL
SIET, TUMKUR.

25	ISV20CS025	MOHAMMED NABIL	11	1	11	0	7	0	2	2	3	3	41	11	10	10	10	24	24	13	20	48
26	ISV20CS026	MOHAMMED OWAIS KHAN	11	1	2	0	12	5	2	2	3	3	21	6	5	5	5	19	10	8	25	37
27	ISV20CS028	MONIKA A	7	6	9	6	9	6	2	2	3	3	25	6	6	6	7	15	23	15	25	46
28	ISV20CS029	MYTHRI B N	14	14	13	12	12	5	2	2	3	3	13	3	3	3	4	19	32	18	24	55
29	ISV20CS031	NAYANA D G	7	8	7	11	15	15	2	2	3	3	34	9	9	8	8	18	26	22	41	63
30	ISV20CS032	NETHRA PRASAD D R	11	0	5	5	6	6	2	2	3	3	5	2	1	1	1	15	8	9	16	28
31	ISV20CS033	PARTHA H R	14	2	13	6	6	6	2	2	3	3	25	6	6	6	7	22	23	15	22	49
32	ISV20CS034	PUSHPRAJ	14	14	12	13	12	14	2	2	3	3	39	10	10	10	9	26	38	26	38	76
33	ISV20CS035	RAHUL AJITH KUMBAR	14	12	14	12	8	15	2	2	3	3	39	10	9	10	10	26	37	25	36	73
34	ISV20CS036	ROUSHANI BEGUM	15	15	15	8	12	13	2	2	3	3	34	8	8	9	9	25	40	20	37	72
35	ISV20CS037	SADASHISH KUMAR BHOKTA	15	15	14	15	15	15	2	2	3	3	44	11	11	11	11	28	42	29	44	85
36	ISV20CS038	SAGAR S K	6	0	0	0	10	12	2	2	3	3	15	4	4	4	3	12	6	7	28	31
37	ISV20CS039	SANIYA SARDAR	13	12	8	10	14	12	2	2	3	3	36	9	9	9	9	24	31	22	38	68
38	ISV20CS040	SEKH FARDEEN	11	9	8	12	14	14	2	2	3	3	29	7	7	7	8	20	26	22	39	63
39	ISV20CS041	SHAIK RABBANI	13	3	3	2	6	3	2	2	3	3	41	11	10	10	10	26	18	15	22	48
40	ISV20CS042	SHARIBA FIRDOSE	13	13	7	6	6	15	2	2	3	3	37	9	9	9	10	24	31	18	34	63
41	ISV20CS045	SHRAVANAKUMARA T	15	6	14	12	5	6	2	2	3	3	33	8	8	8	9	25	30	23	23	60
42	ISV20CS046	SIDHANT PANDIT	13	6	12	3	9	9	2	2	3	3	38	9	9	10	10	24	29	16	31	59
43	ISV20CS047	SMRITI DEWANGAN	14	14	14	5	12	7	2	2	3	3	35	8	8	10	9	24	38	18	31	66
44	ISV20CS048	SOUVIK KARAK	12	6	15	10	10	6	2	2	3	3	41	11	10	10	10	25	33	23	29	65
45	ISV20CS049	SRIKIRAN B	14	6	9	4	8	4	2	2	3	3	21	6	5	5	5	22	22	12	20	45
46	ISV20CS050	SUSHMITHA K	14	12	12	15	9	12	2	2	3	3	32	8	8	8	8	24	34	26	32	69
47	ISV20CS051	TEJASHWINI R	14	14	14	9	13	15	2	2	3	3	31	8	8	8	7	24	38	20	38	71
48	ISV20CS052	TEJESHWAR T R	8	11	13	12	12	12	2	2	3	3	35	9	9	9	8	19	35	24	35	67
49	ISV20CS053	USHA B N	10	13	12	11	9	11	2	2	3	3	32	8	8	8	8	20	35	22	31	64
50	ISV20CS054	VAISHNAVI BHUSHAN	15	15	15	15	15	15	2	2	3	3	40	10	10	10	10	27	42	28	43	83
51	ISV20CS055	VARSHITHA T N	12	7	12	13	11	14	2	2	3	3	42	11	11	10	10	25	32	26	38	72
52	ISV20CS056	VENKATESH DALAWAI	15	15	15	15	15	15	2	2	3	3	44	11	11	11	11	28	43	29	44	85

23	31	21	33
71	66	62	68

Attainment

Prof. Phani Kumar Swamy CV

B. H. O. D.
COMPUTER SCIENCE & ENGG.
SIET, TUMAKURU-06.


COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY															
FACULTY NAME	Mrs KOTRAMMA MATHADA															
BRANCH					CSE					ACADEMIC YEAR					2022-23	
COURSE	B.E		SEMESTER			VII		SECTION				B				
SUBJECT	Artificial Intelligence and Machine Learning								SUBJECT CODE				18CS71			


CO & PO-PSO MAPPING

CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	1	-	1	-	-	-	-	-	-	1	2	-	-
CO2	2	2	1	-	1	-	-	-	-	-	-	1	2	-	-
CO3	2	2	1	-	1	-	-	-	-	-	-	1	2	-	-
Avg	2	1.8	1	-	1	-	-	-	-	-	-	1	2	-	-
Mapping Average = 1.466															

CO-PO-PSOATTAINMENT

CO No.	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	64.48	1.28	0.64	0.64	-	0.64	-	-	-	-	-	-	0.64	1.28	-	-
CO2	66.98	1.33	1.33	0.66	-	0.66	-	-	-	-	-	-	0.66	1.33	-	-
CO3	73.01	1.46	1.46	0.73	-	0.73	-	-	-	-	-	-	0.73	1.46	-	-
Avg		1.35	1.14	0.67	-	0.67	-	-	-	-	-	-	0.67	1.35	-	-
Attainment average = 0.975																


STAFF INCHARGE


HOD,
COMPUTER SCIENCE & ENGG.,
SIET, TUMAKURU-06.


PRINCIPAL
SIET, TUMAKURU.

Roll No.	USN	Name	18CS71			2022-23 ODD			VII SEM B SECTION CSE			PROF. KOTRAMMA MATHADA							
			T1	T2	T3	T1	T2	T3	ASSIGNMENT 10/3			SEE			Final				
						CO1-30	CO2-30	CO3-30	CO1	CO2	CO3	SEE	SEE	SEE	CO1-53	CO2-53	CO3-54		
1	ISV19CS064	SATYAM KUMAR CHAUBEY	24	25	30	24	25	30	3	3	4	32	10.66667	10.66667	10.66667	37.66667	38.66667	44.66667	40.33333
2	ISV19CS065	SHAFIYA KHANUM	25	23	21	25	23	21	3	3	4	34	11.33333	11.33333	11.33333	39.33333	37.33333	36.33333	37.66667
3	ISV19CS066	SHAH HUSSAIN AHAMED S A	21	27	21	21	27	21	3	3	4	41	13.66667	13.66667	13.66667	37.66667	43.66667	38.66667	40
4	ISV19CS067	SHWET KUMAR	20	22	24	20	22	24	3	3	4	37	12.33333	12.33333	12.33333	35.33333	37.33333	40.33333	37.66667
5	ISV19CS068	SIDDALINGAIAH N M	12	21	26	12	21	26	3	3	4	28	9.33333	9.33333	9.33333	24.33333	33.33333	39.33333	32.33333
6	ISV19CS069	SIDDESHYADAV G S	24	25	27	24	25	27	3	3	4	30	10	10	10	37	38	41	38.66667
7	ISV19CS070	SIKAS S K	19	25	30	19	25	30	3	3	4	24	8	8	8	30	36	42	36
8	ISV19CS071	SINCHANA B S	29	28	29	29	28	29	3	3	4	38	12.66667	12.66667	12.66667	44.66667	43.66667	45.66667	44.66667
9	ISV19CS072	SRUJAN H K	25	23	24	25	23	24	3	3	4	27	9	9	9	37	35	37	36.33333
10	ISV19CS074	SUCHITRA H C	23	17	20	23	17	20	3	3	4	41	13.66667	13.66667	13.66667	39.66667	33.66667	37.66667	37
11	ISV19CS076	SUHAS H B	27	18	26	27	18	26	3	3	4	21	7	7	7	37	28	37	34
12	ISV19CS077	SUPRIYA C S	18	12	17	18	12	17	3	3	4	7	2.33333	2.33333	2.33333	23.33333	17.33333	23.33333	21.33333
13	ISV19CS079	TARUN R N	26	18	18	26	18	18	3	3	4	21	7	7	7	36	28	29	31
14	ISV19CS081	VARSHA N	16	24	24	16	24	24	3	3	4	32	10.66667	10.66667	10.66667	29.66667	37.66667	38.66667	35.33333
15	ISV19CS082	VARSHINI J	28	29	30	28	29	30	3	3	4	39	13	13	13	44	45	47	45.33333
16	ISV19CS083	Y S YASWANTH SAI	29	30	30	29	30	30	3	3	4	49	16.33333	16.33333	16.33333	48.33333	49.33333	50.33333	49.33333
17	ISV19CS084	YASHAS G	9	26	23	9	26	23	3	3	4	32	10.66667	10.66667	10.66667	22.66667	39.66667	37.66667	33.33333
18	ISV19CS085	YATHISH GOWDA K H	26	22	25	26	22	25	3	3	4	21	7	7	7	36	32	36	34.66667
19	ISV19CS086	ZAKAUR RAHMAN	22	26	30	22	26	30	3	3	4	29	9.66667	9.66667	9.66667	34.66667	38.66667	43.66667	39
20	ISV18CS002	AISHWARYA S	18	18	26	18	18	26	3	3	4	21	7	7	7	28	28	37	31
21	ISV18CS006	BHARATH KUMAR J	18	18	29	18	18	29	3	3	4	29	9.66667	9.66667	9.66667	30.66667	30.66667	42.66667	34.66667
22	ISV18CS009	DEEKSHITH R	15	15	29	15	15	29	3	3	4	26	8.66667	8.66667	8.66667	26.66667	26.66667	41.66667	31.66667
23	ISV18CS012	DIVYA DEEKSHITH S	23	26	26	23	26	26	3	3	4	26	8.66667	8.66667	8.66667	34.66667	37.66667	38.66667	37
24	ISV18CS018	GURUPRASAD B S	19	23	27	19	23	27	3	3	4	29	9.66667	9.66667	9.66667	31.66667	35.66667	40.66667	36
25	ISV18CS034	RAKSHITHA RANGANATH	15	25	26	15	25	26	3	3	4	23	7.66667	7.66667	7.66667	25.66667	35.66667	37.66667	33
26	ISV18CS047	P	13	20	27	13	20	27	3	3	4	44	14.66667	14.66667	14.66667	30.66667	37.66667	45.66667	38
27	ISV20CS400	HEMA M S	29	20	18	29	20	18	3	3	4	38	12.66667	12.66667	12.66667	44.66667	35.66667	34.66667	38.33333
28	ISV20CS401	SWATHI K M	18	22	27	18	22	27	3	3	4	27	9	9	9	30	34	40	34.66667
Total Number of Students=28									3	3	4	27	9	9	9	30	34	40	34.66667
																34.17857	35.5	39.42857	36.36905
																64.48787	66.98113	73.01587	68.16163

AK
(Kotramma mathada)

Bal
HOD,
COMPUTER SCIENCE & ENGG.,
SIET, TUMAKURU-06.

Nandhu Kumar
PRINCIPAL
SIET, TUMKUR.

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

SUBJECT	BIG DATA AND ANALYTICS	SUBJECT CODE	18CS72
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COURSE OUTCOME

- CO1.** Understand fundamentals of Big Data analytics.
 - CO2.** Investigate Hadoop framework and Hadoop Distributed File system.
 - CO3.** Illustrate the concepts of NoSQL using MongoDB and Cassandra for Big Data.
 - CO4.** Demonstrate the MapReduce programming model to process the big data along with Hadoop tools.
 - CO5.** Use Machine Learning algorithms for real world big data.
 - CO6.** Analyze web contents and Social Networks to provide analytics with relevant visualization tools
- 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: 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. RENUKARADHYA P.C														
BRANCH	CSE			ACADEMIC YEAR				2022-23							
COURSE	B.E	SEMESTER			VII										
SUBJECT	BIG DATA AND ANALYTICS					SUBJECT CODE			18CS72						

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2			1		1		1		2	2		2
CO2	3	2	2		2						2	2		1	
CO3	3	2			1	2		2				2	2		
CO4	3	2	2		1					2			1		
CO5	3	2				1		1						1	
CO6	3	2	1												
AVERAGE	3	2	1.75		1.33	1.33		1.33		1.5	2	2	1.66	1	1.5
OVERALL MAPPING OF SUBJECT												1.56			

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	79.57	2.38	1.59	1.59			0.79		0.79		0.79		1.59	1.59		1.59
CO2	72.21	2.16	1.44	1.44		1.44						1.44	1.44		0.72	
CO3	81.08	2.43	1.62			0.81	1.62		1.62				1.62	1.62		
CO4	78.48	2.35	1.56	1.56		0.78					1.56			0.78		0.78
CO5	86.73	2.60	1.73				0.86		0.86						0.86	
CO6	86.35	2.59	1.72	0.86												
AVERAGE	80.73	2.41	1.61	1.36		1.01	0.79		0.79		1.17	1.44	1.55	1.33	0.79	1.18
FINAL ATTAINMENT LEVEL													1.24			

SEM: VII, SEC: B

IA TEST 1

IA TEST 2

TEST 3

assignment=10/5

SUB: BDA

USN	CO1	CO2	CO3	TOT AL	CO2	CO3	TOT AL	CO4	CO5	TOT AL	CO1	CO2	CO3	CO4	CO5	SEE	CO1	CO2	CO3	CO4	CO5	CO1-34	CO2-44	CO3-49	CO4-34	CO5-34	AVG	
ISV19CS064	15	10	3	28	20	11	31	20	15	35	2	2	2	2	2	47	10	10	9	9	9	27	42	25	31	26	83.9	
ISV19CS065	20	10	8	38	20	15	35	15	13	28	2	2	2	2	2	26	6	5	5	5	5	28	37	30	22	20	76.1	
ISV19CS066	8	8	2	16	15	12	27	16	15	31	2	2	2	2	2	43	9	9	9	8	8	19	34	25	26	25	71.7	
ISV19CS067	8	8	2	16	10	6	16	14	14	28	2	2	2	2	2	43	9	9	9	8	8	19	29	19	24	24	63.9	
ISV19CS068	8	8	3	19	16	10	26	20	14	34	2	2	2	2	2	32	7	7	6	6	6	17	33	21	28	22	67.2	
ISV19CS069	10	7	6	23	4	4	8	15	8	23	2	2	2	2	2	21	5	4	4	4	4	17	17	16	21	14	47.2	
ISV19CS070	8	8	8	24	30	10	30	20	14	34	2	2	2	2	2	23	5	5	5	4	4	15	45	25	26	20	72.8	
ISV19CS071	20	10	8	38	20	16	36	18	18	36	2	2	2	2	2	45	9	9	9	9	9	31	41	35	29	29	91.7	
ISV19CS072	7	10	2	19	10	10	20	20	15	35	2	2	2	2	2	44	9	9	9	9	8	18	31	23	31	25	71.1	
ISV19CS074	8	4	4	16	10	6	16	18	14	32	2	2	2	2	2	41	9	9	9	9	5	19	25	21	29	21	63.9	
ISV19CS076	12	10	8	30	18	15	23	15	15	30	2	2	2	2	2	48	10	10	10	9	9	24	40	35	26	26	83.9	
ISV19CS077	8	8	8	24	10	6	16	10	6	16	2	2	2	2	2	23	5	5	5	5	3	15	25	21	17	11	49.4	
ISV19CS079	0	8	8	16	10	4	14	10	2	12	2	2	2	2	2	31	7	6	6	6	6	9	26	20	18	10	46.1	
ISV19CS081	12	14	2	28	6	6	12	20	15	35	2	2	2	2	2	31	7	6	6	6	6	21	28	16	28	23	64.4	
ISV19CS082	15	10	10	35	20	19	39	20	18	38	2	2	2	2	2	45	9	9	9	9	9	26	41	40	31	29	92.8	
ISV19CS083	20	10	10	40	19	19	38	20	20	40	2	2	2	2	2	44	9	9	9	9	8	31	40	40	31	30	95.6	
ISV19CS084	11	10	10	31	20	15	35	20	15	35	2	2	2	2	2	28	6	6	6	5	5	19	38	33	27	22	77.2	
ISV19CS085	10	5	5	20	18	18	36	14	10	24	2	2	2	2	2	48	10	10	10	10	8	22	35	35	26	20	76.7	
ISV19CS086	15	5	6	26	12	12	24	20	14	34	2	2	2	2	2	39	8	8	8	8	7	25	27	28	30	23	73.9	
ISV18CS002	10	5	5	20	15	15	30	20	14	34	2	2	2	2	2	25	5	5	5	5	5	17	27	27	27	21	66.1	
ISV18CS006	20	10	8	38	16	15	31	20	20	40	2	2	2	2	2	26	6	5	5	5	5	28	33	30	27	27	80.6	
ISV18CS009	10	5	5	20	10	2	12	20	14	24	2	2	2	2	2	26	6	5	5	5	5	18	22	14	27	21	56.7	
ISV18CS012	15	10	3	28	15	16	31	20	15	35	2	2	2	2	2	27	6	6	5	5	5	23	33	26	27	22	72.8	
ISV18CS018	10	4	2	16	18	6	24	20	12	32	2	2	2	2	2	26	6	5	5	5	5	18	29	15	27	19	60.0	
ISV18CS034	0	0	0	0	14	18	32	15	14	39	2	2	2	2	2	7	2	2	1	1	1	4	18	21	18	17	43.3	
ISV18CS047	10	5	5	20	18	10	28	14	14	28	2	2	2	2	2	27	6	6	6	6	3	18	31	23	22	19	62.8	
ISV20CS400	0	0	0	0	18	8	26	18	14	32	2	2	2	2	2	43	9	9	9	8	8	11	29	19	28	24	61.7	
ISV20CS401	10	5	4	19	18	8	26	18	10	28	2	2	2	2	2	24	5	5	5	5	4	17	30	19	25	16	59.4	
TOTAL	300	207	145	648	430	312	722	490	382	872												556	886	702	729	606	1933	
Total students	28			28	28	28	28	28	28	28												28	28	28	28	28		
Average																							19.9	31.6	25.1	26.0	21.6	
																							58.4	71.9	51.2	76.6	63.7	64.3

Dish

Bud
HOD,
COMPUTER SCIENCE & ENGG.,
SIET, TUMAKURU-08.

Narayan Kumar
PRINCIPAL
SIET, TUMKUR.



DEPARTMENT OF COMPUTERS SCIENCE AND ENGINEERING

SUBJECT	BigDataandAnalytics	SUBJECT CODE	18CS72
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COURSE OUTCOME

- CO1.** Understand fundamentals of Big Data analytics.
- CO2.** Understand Hadoop framework and Hadoop Distributed Filesystem.
- CO3.** Illustrate the concepts of NoSQL using MongoDB and Cassandra for Big Data.
- CO4.** Demonstrate the MapReduce programming model to process the big data along with Hadoop tools.
- CO5.** Apply machine learning algorithms for real world big data, web contents and Social Network to provide analytics with relevant visualization tools.

PROGRAM OUTCOMES

- P01** Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
- P02** Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- P03** Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.
- P04** 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.
- P05** Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.
- P06** The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.
- P07** 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.
- P08** Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- P09** Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- P010** Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.
- P011** 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.
- P012** 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	Dr. Dinesha H A												
BRANCH	CSE	ACADEMIC YEAR				2022-23							
COURSE	B. E	SEMESTER	VII TH			SECTION			B				
SUBJECT	BIGDATAANDANALYTICS				SUBJECT CODE		18CS72						

CO & PO MAPPING

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
CO1	2	-	-	1	-	-	-	-	-	-	-	1	1	1	1
CO2	2	-	1	1	-	-	-	-	-	-	-	1	1	-	-
CO3	2	-	2	1	-	-	-	-	-	-	-	1	1	-	-
CO4	2	1	2	1	-	-	-	-	-	-	-	1	1	-	1
CO5	2	2	2	1	-	-	-	-	-	-	-	1	1	-	1
AVG	2.0	1.5	1.75	1.0	-	-	-	-	-	-	-	1.0	1.0	0.2	0.6
OVERALL MAPPING OF SUBJECT															1.11

1.36

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO 4	PO5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO12	PSO1	PSO2	PSO3
CO1	37.4	2	-	-	1	-	-	-	-	-	-	-	1	1	1	1
CO2	56.3	2	-	1	1	-	-	-	-	-	-	-	1	1	-	-
CO3	37.39	2	-	2	1	-	-	-	-	-	-	-	1	1	-	-
CO4	57.35	2	1	2	1	-	-	-	-	-	-	-	1	1	-	1
CO5	46.00	2	2	2	1	-	-	-	-	-	-	-	1	1	-	1
AVERAGE	46.88	1.37	1.11	0.95		0.83	-	-	-	-	-	-	1.37	0.6924	1.004	0.86453
FINAL ATTAINMENT LEVEL																1.02

46	1SV19CS051	NOOR JAHAN	15	2	17	0	0	0	17	17	34	47	7.83	7.83	7.83	7.83	7.83	24.4	11.4	9.43	9.43	26.4	26.4	1.6	1.6	1.6	1.6	1.6	1.6	
47	1SV19CS052	PRAMOD R	14	13	27	12	6	18	18	18	36	55	9.17	9.17	9.17	9.17	9.17	24.8	23.8	22.8	16.8	28.8	28.8	1.6	1.6	1.6	1.6	1.6	1.6	
48	1SV19CS053	PRIYA R ACHARYA	18	18	36	20	20	40	20	20	40	71	11.8	11.8	11.8	11.8	11.8	31.4	31.4	33.4	33.4	33.4	33.4	1.6	1.6	1.6	1.6	1.6	1.6	
49	1SV19CS054	RAHUL S	16	0	16	12	2	14	16	16	32	89	14.8	14.8	14.8	14.8	14.8	32.4	16.4	28.4	18.4	32.4	32.4	1.6	1.6	1.6	1.6	1.6	1.6	
50	1SV19CS055	RAJAN KUMAR PATEL	12	13	25	14	14	28	18	16	34	78	13	13	13	13	13	26.6	27.6	28.6	28.6	32.6	30.6	1.6	1.6	1.6	1.6	1.6	1.6	
51	1SV19CS056	RAKSHITH B R	12	10	22	18	18	36	18	18	36	74	12.3	12.3	12.3	12.3	12.3	25.9	23.9	31.9	31.9	31.9	31.9	1.6	1.6	1.6	1.6	1.6	1.6	
52	1SV19CS057	RAVINDRA H V	20	20	40	20	20	40	20	20	40	67	11.2	11.2	11.2	11.2	11.2	32.8	32.8	32.8	32.8	32.8	32.8	1.6	1.6	1.6	1.6	1.6	1.6	
53	1SV19CS058	S ANKITHA	17	16	33	18	20	38	19	19	38	68	11.3	11.3	11.3	11.3	11.3	29.9	28.9	30.9	32.9	31.9	31.9	1.6	1.6	1.6	1.6	1.6	1.6	
54	1SV19CS059	SAHANA B R	8	2	10	12	6	18	8	16	24	48	8	8	8	8	8	17.6	11.6	21.6	15.6	17.6	25.6	1.6	1.6	1.6	1.6	1.6	1.6	
55	1SV19CS060	SAHANA SHARANAPPA	18	16	34	15	16	31	16	16	32	64	10.7	10.7	10.7	10.7	10.7	30.3	28.3	27.3	28.3	28.3	28.3	1.6	1.6	1.6	1.6	1.6	1.6	
56	1SV19CS061	SAI KISHAN M R	16	20	36	16	16	32	18	13	31	55	9.17	9.17	9.17	9.17	9.17	26.8	30.8	26.8	26.8	28.8	23.8	1.6	1.6	1.6	1.6	1.6	1.6	
57	1SV19CS062	SANIHA C	16	8	24	16	8	24	18	18	36	50	8.33	8.33	8.33	8.33	8.33	25.9	17.9	25.9	17.9	27.9	27.9	1.6	1.6	1.6	1.6	1.6	1.6	
58	1SV19CS063	SANTHOSH C	15	14	29	16	16	32	16	6	22	45	7.5	7.5	7.5	7.5	7.5	24.1	23.1	25.1	25.1	25.1	15.1	1.6	1.6	1.6	1.6	1.6	1.6	
																		AVG	25.1	22.8	25.6	24.8	27.4	27.3						
																		PERC	79.6	72.2	81.1	78.5	86.7	86.4						

A
Signature of Staff

Boj
H.O.D.
COMPUTER SCIENCE & ENGG..
SIET, TUMAKURU-06.

Manjunath
PRINCIPAL
SIET, TUMKUR.

**DEPARTMENT OF COMPUTER SCIENCE / INFORMATION SCIENCE**

SUBJECT	USER INTERFACE DESIGN	SUBJECT CODE	18CS734
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COURSE OUTCOME

CO 1. Design the User Interface, design, menu creation, windows creation and connection between menus and windows.

PSO1: To Create, select, and apply appropriate techniques, resources, modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

PSO2: To manage complex IT projects with consideration of the human, financial, ethical and environmental factors and an understanding of risk management processes, and operational and policy implications.

PSO3: Acquaint module knowledge on emerging trends of the modern era in computer science and engineering.

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 analyse 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 modelling 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	Dr.CHARAN K V											
BRANCH	CSE / ISE			ACADEMIC YEAR				2022-23				
COURSE	B.E	SEMESTER		VII (B)	SECTION			A & B				
SUBJECT	USER INTERFACE DESIGN						SUBJECT CODE			18CS734		
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	3	1	3			2	1	1	1	2
AVERAGE	3	3	3	1	3			2	1	1	1	2
OVERALL MAPPING OF SUBJECT												1.66

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	30.09	0.90	0.90	0.90	0.30	0.90			0.60	0.30	0.30	0.30	0.60
AVERAGE	30.09	0.90	0.90	0.90	0.30	0.90			0.60	0.30	0.30	0.30	0.60
FINAL ATTAINMENT LEVEL													0.60

	PSO1	PSO2	PSO3
CO1	2	2	2
AVERAGE	2	2	2

Academic year	2022-23		SEM		Total strength		57			
SEM:7th ,SEC:B (CSE/ ISE)	IA TEST 1(30M)		IA TEST 2(30M)		IA TEST 3(30M)		ASSIGN/ QUIZ(10 M)	SEE MARKS(60)	% of individual CO	Total CO's Attainment
USN	CO1	TOTAL	CO1	TOTAL	CO1	TOTAL	CO1	CO1=60	CO1=160	CO1
1SV19CS064	30	30	27	27	29	29	10	40	85	136
1SV19CS065	24	24	21	21	30	30	10	31	72.5	116
1SV19CS066	17	17	27	27	23	23	10	37	71.25	114
1SV19CS067	26	26	27	27	23	23	10	26	70	112
1SV19CS068	29	29	23	23	21	21	10	41	77.5	124
1SV19CS069	24	24	26	26	30	30	10	36	78.75	126
1SV19CS070	30	30	27	27	30	30	10	39	85	136
1SV19CS071	26	26	27	27	29	29	10	39	81.875	131
1SV19CS072	26	26	29	29	24	24	10	32	75.625	121
1SV19CS074	23	23	27	27	26	26	10	42	80	128
1SV19CS076	26	26	27	27	26	26	10	35	77.5	124
1SV19CS077	15	15	23	23	24	24	10	23	59.375	95
1SV19CS079	10	10	0	0	26	26	10	35	50.625	81
1SV19CS081	27	27	30	30	27	27	10	40	83.75	134
1SV19CS082	30	30	27	27	29	29	10	45	88.125	141
1SV19CS083	30	30	30	30	30	30	10	38	86.25	138
1SV19CS084	21	21	27	27	30	30	10	44	82.5	132
1SV19CS085	24	24	24	24	24	24	10	24	66.25	106
1SV19CS086	30	30	29	29	30	30	10	42	88.125	141
1SV18CS002	0	0	18	18	23	23	10	27	48.75	78
1SV18CS006	30	30	25	25	27	27	10	37	80.625	129
1SV18CS009	24	24	21	21	27	27	10	15	60.625	97
1SV18CS012	30	30	29	29	29	29	10	33	81.875	131
1SV18CS018	27	27	24	24	21	21	10	47	80.625	129
1SV18CS034	25	25	27	27	24	24	10	42	80	128
1SV18CS047	27	27	27	27	21	21	10	32	73.125	117
1SV20CS400	27	27	15	15	27	27	10	40	74.375	119
1SV20CS401	21	21	24	24	23	23	10	28	66.25	106
1SV19IS001	0	0	30	30	29	29	10	35	65	104
1SV19IS002	24	24	24	24	30	30	10	21	68.125	109
1SV19IS003	27	27	27	27	30	30	10	32	78.75	126
1SV19IS005	23	23	12	12	26	26	10	24	59.375	95
1SV19IS006	29	29	26	26	26	26	10	35	78.75	126
1SV19IS007	24	24	29	29	29	29	10	39	81.875	131
1SV19IS008	26	26	29	29	24	24	10	24	70.625	113
1SV19IS009	23	23	20	20	27	27	10	23	64.375	103
1SV19IS010	24	24	20	20	29	29	10	21	65	104
1SV19IS011	27	27	27	27	29	29	10	51	90	144
1SV19IS012	24	24	26	26	24	24	10	37	75.625	121
1SV19IS013	30	30	30	30	30	30	10	44	90	144
1SV19IS014	30	30	30	30	30	30	10	47	91.875	147
1SV19IS015	15	15	23	23	23	23	10	21	57.5	92
1SV19IS016	23	23	23	23	14	14	10	30	62.5	100
1SV19IS017	26	26	27	27	29	29	10	30	76.25	122
1SV19IS018	21	21	20	20	23	23	10	41	71.875	115

Academic year	2022-23		SEM		Total strength		57			
SEM:7th ,SEC:B (CSE/ ISE)	IA TEST 1(30M)		IA TEST 2(30M)		IA TEST 3(30M)		ASSIGN/ QUIZ(10 M)	SEE MARKS(60)	% of individual CO	Total CO's Attainment
ISV19IS019	24	24	29	29	27	27	10	45	84.375	135
ISV19IS020	26	26	21	21	27	27	10	35	74.375	119
ISV19IS022	23	23	29	29	29	29	10	34	78.125	125
ISV19IS023	30	30	27	27	30	30	10	29	78.75	126
ISV19IS024	30	30	27	27	30	30	10	33	81.25	130
ISV19IS025	30	30	29	29	28	28	10	39	85	136
ISV19IS026	27	27	20	20	26	26	10	44	79.375	127
ISV19IS027	30	30	24	24	24	24	10	38	78.75	126
ISV18IS001	30	30	20	20	30	30	10	41	81.875	131

30.90278

Bas
H O S,
COMPUTER SCIENCE & ENGG.,
SIET, TUMAKURU-06.

M. S. Srinivasan
PRINCIPAL
SIET, TUMKUR.



SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

Department of Computer Science and Engineering

COURSE OUTCOME

- C01.** Define cryptography and its principles
- C02.** Explain Cryptography algorithms
- C03.** Illustrate Public and Private Key cryptography
- C04.** Explain Key management, distribution and certification
- C05.** Explain authentication protocols
- C06.** Tell about IPsec

PROGRAM OUTCOMES

- P01** Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
- P02** Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- P03** Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.
- P04** 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.
- P05** Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modelling to complex engineering activities.
- P06** The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.
- P07** 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.
- P08** Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- P09** Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- P010** Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.
- P011** 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.
- P012** 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. KIRAN G M					
BRANCH	CSE	ACADEMIC YEAR			2022-23	
COURSE	B.E	SEMESTER		SECTION		
SUBJECT	Cryptography			SUBJECT CODE	18CS744	

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		
CO2		3											2		
CO3					2								2		3
CO4		2													3
CO5													2	2	
CO6													2	2	
Average	2	2.5			2			2				2			

CO AND PO ATTAINMENT

ATTAINMENT TABLE																
CO	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	65.9	1.31							1.31			1.31		1.31		
CO2	63.2		1.89											1.26		
CO3	68.4					1.36								1.36		2.05
CO4	68		1.36													2.04
CO5	65													1.3	1.3	
CO6	66.3													1.32	1.32	
AVERAGE		1.31	1.62			1.36			1.31			1.31		1.31	1.31	2.04



Department of Information Science and Engineering

COURSE OUTCOME

- CO1. Define cryptography and its principles
- CO2. Explain Cryptography algorithms
- CO3. Illustrate Public and Private Key cryptography
- CO4. Explain Key management, distribution and certification
- CO5. Explain authentication protocols

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 SUTHAN R													
BRANCH		CSE				ACADEMIC YEAR				2022-23					
COURSE	B.E	SEMESTER				VII		SECTION				B			
SUBJECT		CRYPTOGRAPHY						SUBJECT CODE				18CS744			

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2							2			2		2		
CO2		3											2		
CO3					2								2		3
CO4		2													3
CO5													2	2	
AVERAGE	2	2.5			2			2			2		2	2	3
OVERALL MAPPING OF SUBJECT												2.19			

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	63.62	1.27							1.27			1.27		1.27		
CO2	72.11		2.16											1.44		
CO3	71.29					1.43								1.43		2.14
CO4	77.90		1.56													2.34
CO5	77.35													1.55	1.54	
AVERAGE	72.45	1.27	1.86			1.43			1.27			1.27		1.45	1.45	2.17
FINAL ATTAINMENT LEVEL													1.52			

Academic year 2022-23		SEM VII -B			Total strength : 27					Subject : CRYPTOGRAPHY					Subject Code : 18CS744																				SEE Total				
ROLL NO	USN	A TEST 1(30M)		IA TEST 2(30M)			IA TEST 3(30M)			ASSIGNMENT / QUIZ(10 M)					SEE MARKS(60)					Total Cos ATTAINMENT					% of individual CO					60M									
		CO1	TOTAL	CO2	CO3	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1-12	CO2	CO3	CO4	CO5	CO1-44	CO2-29	CO3-29	CO4-29	CO5-29	CO1	CO2	CO3	CO4	CO5										
1	ISV19CS064	20	20	12	12	24	15	14	29	2	2	2	2	2	9	9	9	9	9	31	23	23	26	25	70.45455	79.31034	79.3103	89.6552	86.207	45									
2	ISV19CS065	17	17	11	11	22	14	15	29	2	2	2	2	2	6.8	6.8	6.8	6.8	6.8	25.8	19.8	19.8	22.8	23.8	58.63636	68.27586	68.2759	78.6207	82.069	34									
3	ISV19CS066	18	18	9	9	18	14	15	29	2	2	2	2	2	9.2	9.2	9.2	9.2	9.2	29.2	20.2	20.2	25.2	26.2	66.36364	69.65517	69.6552	86.8966	90.345	46									
4	ISV19CS067	20	20	0	0	0	12	12	24	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	27.2	7.2	7.2	19.2	19.2	61.81818	24.82759	24.8276	66.2069	66.207	26									
5	ISV19CS068	22	22	11	11	22	11	11	22	2	2	2	2	2	7.8	7.8	7.8	7.8	7.8	31.8	20.8	20.8	20.8	20.8	72.27273	71.72414	71.7241	71.7241	71.724	39									
6	ISV19CS069	15	15	15	14	29	15	15	30	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	23.4	23.4	22.4	23.4	23.4	53.18182	80.68966	77.2414	80.6897	80.69	32									
7	ISV19CS070	24	24	13	13	26	14	15	29	2	2	2	2	2	6	6	6	6	6	32	21	21	22	23	72.72727	72.41379	72.4138	75.8621	79.31	30									
8	ISV19CS071	23	23	15	15	30	15	15	30	2	2	2	2	2	8.4	8.4	8.4	8.4	8.4	33.4	25.4	25.4	25.4	25.4	75.90909	87.58621	87.5862	87.5862	87.586	42									
9	ISV19CS072	5	5	10	9	19	14	15	19	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	13.4	18.4	17.4	22.4	23.4	30.45455	63.44828	60	77.2414	80.69	32									
10	ISV19CS074	14	14	7	7	14	6	6	12	2	2	2	2	2	8.4	8.4	8.4	8.4	8.4	24.4	17.4	17.4	16.4	16.4	55.45455	60	60	56.5517	56.552	42									
11	ISV19CS076	18	18	7	7	14	11	11	22	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	24.8	13.8	13.8	17.8	17.8	56.36364	47.58621	47.5862	61.3793	61.379	24									
12	ISV19CS077	4	4	7	8	15	8	8	16	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	11.2	14.2	15.2	15.2	15.2	25.45455	48.96552	52.4138	52.4138	52.414	26									
13	ISV19CS081	17	17	10	11	21	8	8	16	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	23.8	16.8	17.8	14.8	14.8	54.09091	57.93103	61.3793	51.0345	51.034	24									
14	ISV19CS082	22	22	15	14	29	15	14	29	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	30.6	23.6	22.6	23.6	22.6	69.54545	81.37931	77.931	81.3793	77.931	33									
15	ISV19CS083	25	25	14	15	29	14	15	29	2	2	2	2	2	7.6	7.6	7.6	7.6	7.6	34.6	23.6	24.6	23.6	24.6	78.63636	81.37931	84.8276	81.3793	84.828	38									
16	ISV19CS084	14	14	4	4	8	13	13	26	2	2	2	2	2	6.2	6.2	6.2	6.2	6.2	22.2	12.2	12.2	21.2	21.2	50.45455	42.06897	42.069	73.1034	73.103	31									
17	ISV19CS085	13	13	7	8	15	13	14	27	2	2	2	2	2	8.8	8.8	8.8	8.8	8.8	23.8	17.8	18.8	23.8	24.8	54.09091	61.37931	64.8276	82.069	85.517	44									
18	ISV19CS086	10	10	13	13	26	12	12	24	2	2	2	2	2	6	6	6	6	6	18	21	21	20	20	40.90909	72.41379	72.4138	68.9655	68.966	30									
19	ISV18CS002	8	8	12	11	23	14	14	18	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	14.2	18.2	17.2	20.2	20.2	32.27273	62.75862	59.3103	69.6552	69.655	21									
20	ISV18CS006	21	21	14	14	28	14	15	29	2	2	2	2	2	9	9	9	9	9	32	25	25	25	26	72.72727	86.2069	86.2069	86.2069	89.655	45									
21	ISV18CS009	19	19	13	13	26	14	14	18	2	2	2	2	2	1.8	1.8	1.8	1.8	1.8	22.8	16.8	16.8	17.8	17.8	51.81818	57.93103	57.931	61.3793	61.379	9									
22	ISV18CS012	13	13	13	14	27	13	14	27	2	2	2	2	2	6	6	6	6	6	21	21	22	21	22	47.72727	72.41379	75.8621	72.4138	75.862	30									
23	ISV18CS018	14	14	13	13	26	15	15	30	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	22.4	21.4	21.4	23.4	23.4	50.90909	73.7931	73.7931	80.6897	80.69	32									
24	ISV18CS034	11	11	13	14	27	13	14	27	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	17.2	19.2	20.2	19.2	20.2	39.09091	66.2069	69.6552	66.2069	69.655	21									
25	ISV18CS047	9	9	10	10	20	10	10	20	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	17.4	18.4	18.4	18.4	18.4	39.54545	63.44828	63.4483	63.4483	63.448	32									
26	ISV20CS400	14	14	7	8	15	10	10	20	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	20.8	13.8	14.8	16.8	16.8	47.27273	47.58621	51.0345	57.931	57.931	24									
27	ISV20CS401	19	19	12	11	23	12	11	23	2	2	2	2	2	7.4	7.4	7.4	7.4	7.4	28.4	21.4	20.4	21.4	20.4	64.54545	73.7931	70.3448	73.7931	70.345	37									
																									55.2862	65.74713	66.0026	72.3883	73.155	32.185									
																															53.642								

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SIET, TUMAKURU-06.

Principals
PRINCIPAL
SIET, TUMKUR.



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

SUBJECT	PROJECT MANAGEMENT	SUBJECT CODE	18MN752
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COURSE OUTCOME

- CO1:** Understand the selection, prioritization and initiation of individual projects
- CO2:** Understand the strategic role of project management. work breakdown structure by integrating it with organization.
- CO3:** Understand the scheduling and uncertainty in projects. analyze risk management planning using Project quality tools.
- CO4:** Understand the activities like purchasing, acquisitions, contracting, partnering and collaborations related to performing projects.
- CO5:** Determine project progress and results through a balanced scorecard approach. draw the network diagram to calculate the duration of the project and reduce it using crashing.

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: 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	Dr. MANJULA .T														
BRANCH	CSE	ACADEMIC YEAR				2022-23									
COURSE	B.E	SEMESTER		VII											
SUBJECT	PROJECT MANAGEMENT					SUBJECT CODE		18MN752							

CO & PO MAPPING

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PO11	PO12	PS O1	PSO 2	PSO 3
CO1	1					2		2	2	2	3	1	2		
CO2	1					2		2	2	2	3	1	2		
CO3	1					2		2	2	2	3	1	2		
CO4	1					2		2	2	2	3	1	2		
CO5	1					2		2	2	2	3	1	2		
AVERAGE	1					2		2	2	2	3	1	2		
OVERALL MAPPING OF SUBJECT															

CO AND PO ATTAINMENT

	CO%	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO 1	70.59	0.70					1.41		1.41	1.41	1.41	2.12	0.70	1.41		
CO 2	72.36	0.72					1.44		1.44	1.44	1.44	2.17	0.72	1.44		
CO 3	70.06	0.70					1.40		1.40	1.40	1.40	2.10	0.70	1.40		
CO 4	77.85	0.77					1.55		1.55	1.55	1.55	2.34	0.77	1.55		
CO 5	76.57	0.76					1.53		1.53	1.53	1.53	2.29	0.76	1.53		
AV ER AG E	73.486	0.73					1.46		1.46	1.46	1.46	2.20	0.73	1.46		
FINAL ATTAINMENT LEVEL																1.37

ISV19CS056	25	25	12	13	25	14	14	28	2	2	2	2	2	6.8	6.8	6.8	6.8	6.8	33.8	20.8	22	22.8	22.8	76.82	71.72	75.17	78.62	78.62	34	6.8
ISV19CS057	25	25	15	15	30	15	15	30	2	2	2	2	2	9.4	9.4	9.4	9.4	9.4	36.4	26.4	26	26.4	26.4	82.73	91.03	91.03	91.03	91.03	47	9.4
ISV19CS058	26	26	15	15	30	15	14	29	2	2	2	2	2	9.4	9.4	9.4	9.4	9.4	37.4	26.4	26	26.4	25.4	85	91.03	91.03	91.03	87.59	47	9.4
ISV19CS059	24	24	8	5	13	14	11	25	2	2	2	2	2	5.4	5.4	5.4	5.4	5.4	31.4	15.4	12	21.4	18.4	71.36	53.1	42.76	73.79	63.45	27	5.4
ISV19CS060	23	23	8	15	23	15	14	29	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	29.6	14.6	22	21.6	20.6	67.27	50.34	74.48	74.48	71.03	23	4.6
ISV19CS061	18	18	6	12	18	11	12	23	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	26.6	14.6	21	19.6	20.6	60.45	50.34	71.03	67.59	71.03	33	6.6
ISV19CS062	18	18	4	0	4	8	11	19	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	24.2	10.2	6	14.2	17.2	55	35.17	21.38	48.97	59.31	21	4.2
ISV19CS063	16	16	5	8	13	9	2	11	2	2	2	2	2	5.4	5.4	5.4	5.4	5.4	23.4	12.4	15	16.4	9.4	53.18	42.76	53.1	56.55	32.41	27	5.4

35.02

70.59	72.36	70.06	77.85	76.58	64.85
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COMPUTER SCIENCE & ENGG.,
SIET, TUMAKURU-06.

Nanda Kumari
PRINCIPAL
SIET, TUMKUR.

AY-2022-2023

EVEN

Department of Computer Science and Engineering

2022-2023

COURSE OUTCOMES

COURSE: DESIGN AND ANALYSIS OF ALGORITHMS (21CS42)

- CO1. Analyze the performance of the algorithms, state the efficiency using asymptotic notations and analyze mathematically the complexity of the algorithm.
- CO2. Apply divide and conquer approaches and decrease and conquer approaches in solving the problems analyze the same
- CO3. Apply the appropriate algorithmic design technique like greedy method, transform and conquer approaches and compare the efficiency of algorithms to solve the given problem.
- CO4. Apply and analyze dynamic programming approaches to solve some problems. And improve an algorithm time efficiency by sacrificing space.
- CO5. Apply and analyze backtracking, branch and bound methods and to describe P, NP and NP-Complete problems.

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 modelling 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: 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. CHETHAN M S													
BRANCH		CSE				ACADEMIC YEAR				2022-2023					
COURSE	B.E	SEMESTER				IV		SECTION				A			
SUBJECT	DESIGN AND ANALYSIS OF ALGORITHMS						SUBJECT CODE				21CS42				
CO & PO MAPPING															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	1	1	-	-	-	-	-	-	-	2	3	2	3
CO2	3	2	3	2	-	-	-	-	-	-	-	2	3	2	2
CO3	3	2	3	2	-	-	-	-	-	-	-	2	3	3	2
CO4	3	2	3	2	-	-	-	-	-	-	-	2	3	3	2
CO5	3	2	3	2	-	-	-	-	-	-	-	2	3	2	3
AVG	3.0	2.0	2.6	1.8	-	-	-	-	-	-	-	2.0	3.0	2.4	2.4
OVERALL MAPPING OF SUBJECT												2.4			

CO AND PO ATTAINMENT

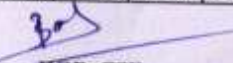
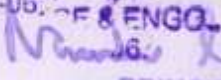
	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	65.6	1.96	1.31	0.65	0.65								1.31	1.96	1.31	1.96
CO2	74.3	2.22	1.48	2.22	1.48								1.48	2.22	1.48	1.48
CO3	72.7	2.18	1.45	2.18	1.45								1.45	2.18	2.18	1.45
CO4	67.9	2.03	1.35	2.03	1.35								1.35	2.03	2.03	1.35
CO5	67.8	2.03	1.35	2.03	1.35								1.35	2.03	1.35	2.03
AVERAGE		2.08	1.38	1.82	1.25								1.38	2.08	1.67	1.65
FINAL ATTAINMENT LEVEL													1.66			

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

SUB:Design & Analysis of Algorithm			Sem:IV 'A' SEC					2022-23					EVEN					FACULTY:Mr.Chethan M S												
Roll No.	USN	Name	21CS42			T1			T2			T3			ASSIGNMENT 10 + Practical 20					EXTERNAL					Final					TOTAL AVG
			T1	T2	T3	CO1-20	CO2-10	CO3-10	CO4-10	CO5-10	CO1-6	CO2-6	CO3-6	CO4-6	CO5-6	SEE (50)	CO1-10	CO2-10	CO3-10	CO4-10	CO5-10	CO1-36	CO2-26	CO3-26	CO4-26	CO5-26				
1	ISV21CS001	AASTHA PANDDY	13	18	11	13	10	8	6	5	6	6	6	6	6	33	6.6	6.6	6.6	6.6	6.6	25.6	22.6	20.6	18.6	17.6	21			
2	ISV21CS002	ABDUL MOHSIN J KHAN	18	20	15	18	10	10	7	8	6	6	6	6	6	37	7.4	7.4	7.4	7.4	7.4	31.4	23.4	23.4	20.4	21.4	24			
3	ISV21CS003	ABHINAV DEVARAJ T R	7	12	4	7	6	6	2	2	6	6	6	6	6	36	7.2	7.2	7.2	7.2	7.2	20.2	19.2	19.2	15.2	15.2	17.8			
4	ISV21CS004	ABHISHEK RANJAN	3	6	0	3	3	3	0	0	6	6	5	5	5	18	3.6	3.6	3.6	3.6	3.6	12.6	12.6	11.6	8.6	8.6	10.8			
5	ISV21CS005	ABRAR AHAMED I	13	17	10	13	10	7	5	5	6	6	5	5	5	38	7.6	7.6	7.6	7.6	7.6	26.6	23.6	19.6	17.6	17.6	21			
6	ISV21CS006	AISHWARYA S	20	18	15	20	9	9	7	8	6	6	6	6	6	28	5.6	5.6	5.6	5.6	5.6	31.6	20.6	20.6	18.6	19.6	22.2			
7	ISV21CS008	ANANYA M J	9	19	16	9	10	9	8	8	5	6	6	6	6	25	5	5	5	5	5	19	21	20	19	19	19.6			
8	ISV21CS009	ARSHIYA NAAZ	14	15	11	14	8	7	6	5	6	5	6	6	6	30	6	6	6	6	6	26	19	19	18	17	19.8			
9	ISV21CS010	BHARATH M H	10	18	13	10	10	8	6	7	6	6	6	6	6	28	5.6	5.6	5.6	5.6	5.6	21.6	21.6	19.6	17.6	18.6	19.8			
10	ISV21CS011	BHAVANA M R	14	20	17	14	10	10	10	7	6	6	6	6	6	34	6.8	6.8	6.8	6.8	6.8	26.8	22.8	22.8	22.8	19.8	23			
11	ISV21CS012	BHAVYA A	16	20	14	16	10	10	7	7	6	6	6	6	6	37	7.4	7.4	7.4	7.4	7.4	29.4	23.4	23.4	20.4	20.4	23.4			
12	ISV21CS013	BHAVYA S	7	15	14	7	8	7	7	7	6	6	6	6	6	24	4.8	4.8	4.8	4.8	4.8	17.8	18.8	17.8	17.8	17.8	18			
13	ISV21CS014	BHOOMIKA Y	14	20	19	14	10	10	10	9	6	6	6	6	6	45	9	9	9	9	9	29	25	25	25	24	25.6			
14	ISV21CS015	BHUVAN G RAMALADA	16	11	16	16	5	6	8	8	6	6	6	6	6	29	5.8	5.8	5.8	5.8	5.8	27.8	16.8	17.8	19.8	19.8	20.4			
15	ISV21CS016	BIMMI KUMARI	20	20	20	20	10	10	10	10	6	6	6	6	6	32	6.4	6.4	6.4	6.4	6.4	32.4	22.4	22.4	22.4	22.4	24.4			
16	ISV21CS017	BINDHUSHREE R	1	20	10	1	10	10	5	5	6	6	5	6	6	25	5	5	5	5	5	12	21	20	16	16	17			
17	ISV21CS018	CHAITHRA P	19	20	20	19	10	10	10	10	6	6	6	6	6	38	7.6	7.6	7.6	7.6	7.6	32.6	23.6	23.6	23.6	23.6	25.4			
18	ISV21CS019	CHAITHRA V	5	8	2	5	4	4	0	2	6	5	6	6	6	23	4.6	4.6	4.6	4.6	4.6	15.6	13.6	14.6	10.6	12.6	13.4			
19	ISV21CS020	CHANDANA G	13	17	16	13	10	7	8	8	6	6	6	6	6	36	7.2	7.2	7.2	7.2	7.2	26.2	23.2	20.2	21.2	21.2	22.4			
20	ISV21CS021	CHANDANA N H	5	14	2	5	7	7	0	2	6	6	6	6	6	12	2.4	2.4	2.4	2.4	2.4	13.4	15.4	15.4	8.4	10.4	12.6			
21	ISV21CS022	CHANDU P	15	20	20	15	10	10	10	10	6	6	6	6	6	34	6.8	6.8	6.8	6.8	6.8	27.8	22.8	22.8	22.8	22.8	23.8			
22	ISV21CS023	CHITHRA J P	13	19	10	13	10	9	5	5	6	6	6	6	6	30	6	6	6	6	6	25	22	21	17	17	20.4			
23	ISV21CS024	D P HARSHITHA	11	18	17	11	8	10	10	7	6	6	5	6	6	33	6.6	6.6	6.6	6.6	6.6	23.6	20.6	21.6	22.6	19.6	21.6			
24	ISV21CS025	DARSHAN K	15	19	11	15	10	9	6	5	6	6	6	6	6	25	5	5	5	5	5	26	21	20	17	16	20			
25	ISV21CS026	DHANUSH K R	19	20	20	19	10	10	10	10	6	6	6	6	6	40	8	8	8	8	8	33	24	24	24	24	25.8			
26	ISV21CS027	DHEERAJ S	13	11	7	13	6	5	4	3	6	6	6	6	6	32	6.4	6.4	6.4	6.4	6.4	25.4	18.4	17.4	16.4	15.4	18.6			
27	ISV21CS028	DIPENDU KUMBHAKAR	11	12	5	11	6	6	3	2	6	6	6	5	5	26	5.2	5.2	5.2	5.2	5.2	22.2	17.2	17.2	13.2	12.2	16.4			
28	ISV21CS029	DIVYA A C	13	16	13	13	8	8	6	7	6	6	6	6	6	33	6.6	6.6	6.6	6.6	6.6	25.6	20.6	20.6	18.6	19.6	21			
29	ISV21CS030	DIVYA D R	17	20	17	17	10	10	10	7	6	6	6	6	6	38	7.6	7.6	7.6	7.6	7.6	30.6	23.6	23.6	23.6	20.6	24.4			
30	ISV21CS032	HARSHITHA B	5	13	3	5	7	6	0	3	6	6	5	6	6	11	2.2	2.2	2.2	2.2	2.2	13.2	15.2	13.2	8.2	11.2	12.2			
31	ISV21CS033	HEMANTH YALLAPPA	1	10	13	1	5	5	6	7	4	4	4	4	6	19	3.8	3.8	3.8	3.8	3.8	8.8	12.8	12.8	13.8	16.8	13			
32	ISV21CS034	HEMASHREE M	2	9	1	2	5	4	0	1	6	5	5	6	6	18	3.6	3.6	3.6	3.6	3.6	11.6	13.6	12.6	9.6	10.6	11.6			

Roll No.	USN	Name	21CS42			T1		T2			T3					ASSIGNMENT 10 + Practical 20					EXTERNAL					Final					TOTAL AVG
			T1	T2	T3	CO1-20	CO2-10	CO3-10	CO4-10	CO5-10	CO1-6	CO2-6	CO3-6	CO4-6	CO5-6	SEE (50)	CO1-10	CO2-10	CO3-10	CO4-10	CO5-10	CO1-36	CO2-26	CO3-26	CO4-26	CO5-26					
33	ISV21CS035	HENJESH K O	19	20	18	19	10	10	10	8	6	6	6	6	6	22	4.4	4.4	4.4	4.4	4.4	29.4	20.4	20.4	20.4	18.4	21.8				
34	ISV21CS036	KARUNAKARA L	13	20	11	13	10	10	6	5	6	5	6	6	36	7.2	7.2	7.2	7.2	7.2	26.2	22.2	23.2	19.2	18.2	21.8					
35	ISV21CS037	KIRAN S	11	11	9	11	6	5	5	4	6	6	5	6	20	4	4	4	4	4	21	16	14	15	14	16					
36	ISV21CS038	KISHOR N	15	20	19	15	10	10	10	9	6	6	5	6	31	6.2	6.2	6.2	6.2	6.2	27.2	22.2	21.2	22.2	21.2	22.8					
37	ISV21CS039	KUSUMA R	2	1	3	2	0	1	0	3	6	5	5	5	14	2.8	2.8	2.8	2.8	2.8	10.8	7.8	8.8	7.8	11.8	9.4					
38	ISV21CS040	LAXMI SONNAD	18	20	20	18	10	10	10	10	6	6	6	6	37	7.4	7.4	7.4	7.4	7.4	31.4	23.4	23.4	23.4	23.4	25					
39	ISV21CS041	LKITHA T P	11	18	12	11	10	8	6	6	6	6	6	6	30	6	6	6	6	6	23	22	20	18	18	20.2					
40	ISV21CS042	MAMATHA H R	13	19	15	13	10	9	7	8	6	6	6	6	28	5.6	5.6	5.6	5.6	5.6	24.6	21.6	20.6	18.6	19.6	21					
41	ISV21CS043	MANDARA H	10	10	11	10	5	5	6	5	6	6	6	6	37	7.4	7.4	7.4	7.4	7.4	23.4	18.4	18.4	19.4	18.4	19.6					
42	ISV21CS044	MANIKANTA M	10	15	4	10	7	8	2	2	6	5	5	6	27	5.4	5.4	5.4	5.4	5.4	21.4	17.4	18.4	13.4	13.4	16.8					
43	ISV21CS045	MANU S	15	19	20	15	10	9	10	10	6	6	6	6	39	7.8	7.8	7.8	7.8	7.8	28.8	23.8	22.8	23.8	23.8	24.6					
44	ISV21CS046	MAYUR KUSHAL PATIL	16	19	10	16	10	9	5	5	6	5	6	6	37	7.4	7.4	7.4	7.4	7.4	29.4	22.4	22.4	18.4	18.4	22.2					
45	ISV21CS048	MOHAMMED JUNAID	9	13	8	9	6	7	4	4	6	6	6	6	25	5	5	5	5	5	20	17	18	15	15	17					
46	ISV21CS049	NAGAPOOJA M	20	20	20	20	10	10	10	10	6	6	6	6	35	7	7	7	7	7	33	23	23	23	23	25					
47	ISV21CS050	NAHIDA K	18	20	11	18	10	10	6	5	6	6	6	6	37	7.4	7.4	7.4	7.4	7.4	31.4	23.4	23.4	19.4	18.4	23.2					
48	ISV21CS051	NANDAN L	6	0	8	6	0	0	4	4	6	5	5	6	21	4.2	4.2	4.2	4.2	4.2	16.2	9.2	9.2	14.2	14.2	12.6					
49	ISV21CS052	P A NIVEDITHA	13	18	15	13	10	8	7	8	6	6	6	6	42	8.4	8.4	8.4	8.4	8.4	27.4	24.4	22.4	21.4	22.4	23.6					
50	ISV21CS053	PANEENDRA E	11	5	12	11	0	5	6	6	4	4	4	6	29	5.8	5.8	5.8	5.8	5.8	20.8	9.8	14.8	15.8	17.8	15.8					
51	ISV21CS054	POOJA G	12	11	10	12	6	5	5	5	6	5	6	6	28	5.6	5.6	5.6	5.6	5.6	23.6	16.6	16.6	16.6	16.6	18					
52	ISV21CS055	PRADEEP KUMAR H G	11	17	15	11	10	7	7	8	6	6	6	6	41	8.2	8.2	8.2	8.2	8.2	25.2	24.2	21.2	21.2	22.2	22.8					
53	ISV21CS056	PRIYANSHU PRASHAD	12	15	15	12	7	8	7	8	6	6	6	6	30	6	6	6	6	6	24	19	20	19	20	20.4					
54	ISV21CS057	PUNEETH KUMAR R	14	17	14	14	10	7	7	7	6	4	4	4	28	5.6	5.6	5.6	5.6	5.6	25.6	19.6	16.6	16.6	16.6	19					
55	ISV21CS058	PUNEETH N	12	14	9	12	7	7	5	4	6	6	5	6	28	5.6	5.6	5.6	5.6	5.6	23.6	18.6	17.6	16.6	15.6	18.4					
56	ISV21CS059	PUNITH KUMAR H S	17	20	14	17	10	10	7	7	6	6	6	6	31	6.2	6.2	6.2	6.2	6.2	29.2	22.2	22.2	19.2	19.2	22.4					
57	ISV21CS060	RAJAN KUMAR SAH	9	0	7	9	0	0	4	3	6	6	6	6	21	4.2	4.2	4.2	4.2	4.2	19.2	10.2	10.2	14.2	13.2	13.4					
59	ISV21CS062	RAKSHITHA P B	9	19	12	9	10	9	6	6	6	6	6	6	18	3.6	3.6	3.6	3.6	3.6	18.6	19.6	18.6	15.6	15.6	17.6					
60	ISV21CS063	RAMYASHREE N	18	20	17	18	10	10	10	7	6	6	6	6	39	7.8	7.8	7.8	7.8	7.8	31.8	23.8	23.8	23.8	20.8	24.8					
																					23.61	19.33	18.91	17.66	17.63						
																					65.6%	74.3%	72.7%	67.9%	67.8%						


Staff Signature


HOD, CSE
COMPUTER SCIENCE & ENGG
SIET, TUMAKURU-06.
F & ENGG.

PRINCIPAL
SIET, TUMKUR.



SHRIDEVI
EDUCATION

(Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka and Affiliated to Visvesvaraya Technological University, Belagavi)

Sri Shridevi Charitable Trust (R.)

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY

Sira Road, Tumkur - 572 106, Karnataka, India.

Phone: 0816 - 2212629 | Principal: 0816 - 2212627, 9686114899 | Telefax: 0816 - 2212628

Email: info@shrideviengineering.org, principal@shrideviengineering.org | Website: www.shrideviengineering.org

ESTD: 2002



Department of Computer Science and Engineering

2022-2023

COURSE OUTCOMES

COURSE: DESIGN AND ANALYSIS OF ALGORITHMS (21CS42)

- CO1. Analyze the performance of the algorithms, state the efficiency using asymptotic notations and analyze mathematically the complexity of the algorithm.
- CO2. Apply divide and conquer approaches and decrease and conquer approaches in solving the problems analyze the same
- CO3. Apply the appropriate algorithmic design technique like greedy method, transform and conquer approaches and compare the efficiency of algorithms to solve the given problem.
- CO4. Apply and analyze dynamic programming approaches to solve some problems. And improve an algorithm time efficiency by sacrificing space.
- CO5. Apply and analyze backtracking, branch and bound methods and to describe P, NP and NP-Complete problems.

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 modelling 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.
- PO.9 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: 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. CHETHAN M S													
BRANCH		CSE				ACADEMIC YEAR				2022-2023					
COURSE	B.E	SEMESTER				IV		SECTION				B			
SUBJECT	DESIGN AND ANALYSIS OF ALGORITHMS						SUBJECT CODE				21CS42				
CO & PO MAPPING															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	1	1	-	-	-	-	-	-	-	2	3	2	3
CO2	3	2	3	2	-	-	-	-	-	-	-	2	3	2	2
CO3	3	2	3	2	-	-	-	-	-	-	-	2	3	3	2
CO4	3	2	3	2	-	-	-	-	-	-	-	2	3	3	2
CO5	3	2	3	2	-	-	-	-	-	-	-	2	3	2	3
AVG	3.0	2.0	2.6	1.8	-	-	-	-	-	-	-	2.0	3.0	2.4	2.4
OVERALL MAPPING OF SUBJECT												2.4			

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	54.5	1.63	1.09	0.54	0.54								1.09	1.63	1.09	1.63
CO2	65.4	1.96	1.30	1.96	1.30								1.30	1.96	1.30	1.30
CO3	65.9	1.97	1.31	1.97	1.31								1.31	1.97	1.97	1.31
CO4	61.4	1.84	1.22	1.84	1.22								1.22	1.84	1.84	1.22
CO5	60.4	1.81	1.20	1.81	1.20								1.20	1.81	1.20	1.81
		1.84	1.22	1.62	1.11								1.22	1.84	1.48	1.45
FINAL ATTAINMENT LEVEL													1.47			

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

SUB:Design & Analysis of Algorithm			Sem:IV 'B' SEC					2022-23					EVEN					FACULTY NAME :Mr.Chethan M S					TOTAL AVG							
Roll No.	USN	Name	21CS42			T1	T2		T3		ASSIGNMENT 10 + Practical 20					EXTERNAL					Final									
			T1	T2	T3	CO1- 20	CO2- 10	CO3- 10	CO4- 10	CO5- 10	CO1- 6	CO2- 6	CO3- 6	CO4- 6	CO5- 6	SEE (50)	CO1- 10	CO2- 10	CO3- 10	CO4- 10	CO5- 10	CO1- 36		CO2- 26	CO3- 26	CO4- 26	CO5- 26			
1	ISV21CS064	ROJA G	6	8	5	6	4	4	2	3	6	6	6	6	6	8	2	2	2	2	2	14	12	12	10	11	11			
2	ISV21CS065	SAHANA D N	0	7	1	0	3	4	0	1	6	6	6	6	6	13	3	3	3	3	3	9	12	13	9	10	10			
3	ISV21CS066	SAHIL MUBARAK	6	10	3	6	5	5	2	1	6	6	6	6	6	25	5	5	5	5	5	17	16	16	13	12	15			
4	ISV21CS067	SANJAY RAMESH NAIK	10	15	4	10	7	8	2	2	6	6	6	6	6	25	5	5	5	5	5	21	18	19	13	13	17			
5	ISV21CS068	SARANYA B	19	17	13	19	10	7	6	7	6	6	6	6	6	33	7	7	7	7	7	32	23	20	19	20	22			
6	ISV21CS069	SHASHIREKHA K N	3	5	0	3	2	3	0	0	6	6	6	6	6	21	4	4	4	4	4	13	12	13	10	10	12			
7	ISV21CS070	SHREYA T S	14	19	15	14	10	9	7	8	6	6	6	6	6	32	6	6	6	6	6	26	22	21	19	20	22			
8	ISV21CS071	SHREYAS SURESH SALUNKHE	17	20	19	17	10	10	10	9	6	6	6	6	6	38	8	8	8	8	8	31	24	24	24	23	25			
9	ISV21CS072	SNEHA G	10	14	7	10	7	7	4	3	6	6	6	6	6	32	6	6	6	6	6	22	19	19	16	15	19			
10	ISV21CS073	SOUMYA	9	16	16	9	8	8	8	8	6	6	6	6	6	39	8	8	8	8	8	23	22	22	22	22	22			
11	ISV21CS074	SOWMYASHRI S	10	16	13	10	8	8	6	7	6	6	6	6	6	18	4	4	4	4	4	20	18	18	16	17	17			
12	ISV21CS075	SOWNDARYA K A	0	0	7	0	0	0	4	3	6	6	6	6	6	21	4	4	4	4	4	10	10	10	14	13	12			
13	ISV21CS076	SPANDANA B GOWDA	14	20	18	14	10	10	10	8	6	6	6	6	6	44	9	9	9	9	9	29	25	25	25	23	25			
14	ISV21CS077	SUJAN TIMMAPPA NAIK	4	15	6	4	7	8	3	3	6	6	6	6	6	23	5	5	5	5	5	15	18	19	14	14	16			
15	ISV21CS078	SUMA M T	16	20	15	16	10	10	7	8	6	6	6	6	6	28	6	6	6	6	6	28	22	22	19	20	22			
16	ISV21CS080	TASMIYA BANU	5	5	3	5	2	3	2	1	6	6	6	6	6	21	4	4	4	4	4	15	12	13	12	11	13			
17	ISV21CS081	UMESH	9	5	6	9	3	2	3	3	6	5	5	6	6	18	4	4	4	4	4	19	12	11	13	13	13			
18	ISV21CS082	VEENA N	10	15	17	10	7	8	10	7	6	6	6	6	6	43	9	9	9	9	9	25	22	23	25	22	23			
19	ISV21CS083	VIDHYA S	0	2	5	0	0	2	2	3	6	6	6	6	6	22	4	4	4	4	4	10	10	12	12	13	12			
20	ISV21CS084	VINAY KUMAR R	6	10	3	6	5	5	3	0	6	6	6	6	6	26	5	5	5	5	5	17	16	16	14	11	15			
21	ISV21CS085	VISHNU THIRTA TADPATRI	1	0	7	1	0	0	4	3	6	6	6	6	6	26	5	5	5	5	5	12	11	11	15	14	13			
22	ISV21CS086	YOJITH SIDDESHWAR G	12	20	13	12	10	10	6	7	6	6	6	6	6	22	4	4	4	4	4	22	20	20	16	17	19			
23	ISV21CS087	ZAINAB FAKRUDDIN	11	10	14	11	5	5	7	7	6	6	6	6	6	27	5	5	5	5	5	22	16	16	18	18	18			
																					19.61	17.00	17.13	15.96	15.70					
																					54.5%	65.4%	65.9%	61.4%	60.4%					

Chethan M S
STAFF SIGNATURE

Bas
HOD, CSE
HOD,
COMPUTER SCIENCE & ENGG.,
SIET, TUMAKURU-06.
Manjunath Kumar
PRINCIPAL
SIET, TUMKUR.

Department of Computer Science and Engineering

COURSE OUTCOME

- C01.** Explain C-Compilers and optimization
- C02.** Describe the ARM microcontroller's architectural features and program module.
- C03.** Apply the knowledge gained from programming on ARM to different applications.
- C04.** Program the basic hardware components and their application selection method.
- C05.** Demonstrate the need for a real-time operating system for embedded system application.

PROGRAM OUTCOMES

- P01** Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
- P02** Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- P03** Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.
- P04** 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.
- P05** Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.
- P06** The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.
- P07** 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.
- P08** Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- P09** Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- P010** Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.
- P011** 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.
- P012** 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. LAVANYA K														
BRANCH	CSE			ACADEMIC YEAR				2022-23							
COURSE	B.E	SEMESTER		IV	SECTION			A							
SUBJECT	MICROCONTROLLER AND EMBEDDED SYSTEMS					SUBJECT CODE			21CS43						
CO & PO MAPPING															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1					1							1	1	1	
CO2			2												
CO3	2									1		2	1	1	
CO4	2									2		1	1	1	
CO5	1									1		1			
AVERAGE	1.66		2		1					1.33		1.66	1	1	
OVERALL MAPPING OF SUBJECT												1.37			

CO - PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	75.2					0.75							0.75	0.75	0.75	
CO2	78.5			1.57												
CO3	76.8	1.53									0.76		1.53	0.76	0.76	
CO4	77.6	1.56									1.56		0.77	0.77	0.77	
CO5	75.1	0.75									0.75		0.75			
	1.28			1.57		0.75					1.02		0.95	0.76	0.76	
FINAL ATTAINMENT LEVEL													1.02			

Lavanya K

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

SUB:Microcontroller and Embedded System			Sem:IV 'A' SEC					2022-23					EVEN					FACULTY: Mrs.Lavanya K					TOTAL AVG					
Roll No.	USN	Name	21CS43			T1		T2			T3		ASSIGNMENT 10 + Practical 20					EXTERNAL						FINAL				
			T1	T2	T3	CO1-20	CO2-10	CO3-10	CO4-10	CO5-10	CO1-6	CO2-6	CO3-6	CO4-6	CO5-6	SEE (50)	CO1-10	CO2-10	CO3-10	CO4-10	CO5-10	CO1-36		CO2-26	CO3-26	CO4-26	CO5-26	
1	ISV21CS001	AASTHA PANDDY	16	12	17	16	8	4	9	8	6	6	6	6	25	5	5	5	5	5	27	19	15	20	19	20		
2	ISV21CS002	ABDUL MOHSIN J KHAN	19	18	18	19	9	9	10	8	6	6	6	6	38	8	8	8	8	8	33	23	23	24	22	25		
3	ISV21CS003	ABHINAV DEVARAJ T R	11	16	12	11	10	6	7	5	6	6	6	6	22	4	4	4	4	4	21	20	16	17	15	18		
4	ISV21CS004	ABHISHEK RANJAN	12	11	8	12	6	5	5	3	6	6	6	6	19	4	4	4	4	4	22	16	15	15	13	16		
5	ISV21CS005	ABRAR AHAMED I	14	16	14	14	9	7	8	6	6	6	6	6	31	6	6	6	6	6	26	21	19	20	18	21		
6	ISV21CS006	AISHWARYA S	18	19	18	18	10	9	10	8	6	6	6	6	36	7	7	7	7	7	31	23	22	23	21	24		
7	ISV21CS008	ANANYA M J	17	13	15	17	6	7	8	7	6	6	6	6	26	5	5	5	5	5	28	17	18	19	18	20		
8	ISV21CS009	ARSHIYA NAAZ	15	19	15	15	10	9	9	6	6	6	6	6	21	4	4	4	4	4	25	20	19	19	16	20		
9	ISV21CS010	BHARATH M H	14	14	18	14	6	8	8	10	6	6	6	6	10	2	2	2	2	2	22	14	16	16	18	17		
10	ISV21CS011	BHAVANA M R	17	19	18	17	10	9	10	8	6	6	6	6	32	6	6	6	6	6	29	22	21	22	20	23		
11	ISV21CS012	BHAVYA A	17	19	20	17	10	9	10	10	6	6	6	6	30	6	6	6	6	6	29	22	21	22	22	23		
12	ISV21CS013	BHAVYA S	17	17	18	17	9	8	10	8	6	6	6	6	26	5	5	5	5	5	28	20	19	21	19	22		
13	ISV21CS014	BHOOMIKA Y	18	20	19	18	10	10	10	9	6	6	6	6	25	5	5	5	5	5	29	21	21	21	20	22		
14	ISV21CS015	BHUVAN G RAMALADA	17	19	16	17	9	10	7	9	6	6	6	6	33	7	7	7	7	7	30	22	23	20	22	23		
15	ISV21CS016	BIMMI KUMARI	19	20	20	19	10	10	10	10	6	6	6	6	31	6	6	6	6	6	31	22	22	22	22	24		
16	ISV21CS017	BINDHUSHREE R	18	14	17	18	8	6	9	8	6	6	6	6	25	5	5	5	5	5	29	19	17	20	19	21		
17	ISV21CS018	CHAITHRA P	15	20	17	15	10	10	9	8	6	6	6	6	41	8	8	8	8	8	29	24	24	23	22	25		
18	ISV21CS019	CHAITHRA V	15	17	18	15	9	8	10	8	6	6	6	6	27	5	5	5	5	5	26	20	19	21	19	21		
19	ISV21CS020	CHANDANA G	14	19	17	14	10	9	10	7	6	6	6	6	28	6	6	6	6	6	26	22	21	22	19	22		
20	ISV21CS021	CHANDANA N H	11	10	11	11	4	6	6	5	6	6	6	6	18	4	4	4	4	4	21	14	16	16	15	16		
21	ISV21CS022	CHANDU P	18	20	19	18	10	10	9	10	6	6	6	6	35	7	7	7	7	7	31	23	23	22	23	24		
22	ISV21CS023	CHITHRA J P	16	18	19	16	10	8	10	9	6	6	6	6	35	7	7	7	7	7	29	23	21	23	22	24		
23	ISV21CS024	D P HARSHITHA	18	15	17	18	8	7	7	10	5	5	5	6	25	5	5	5	5	5	28	18	17	18	21	20		
24	ISV21CS025	DARSHAN K	17	17	16	17	9	8	6	10	6	6	6	6	27	5	5	5	5	5	28	20	19	17	21	21		
25	ISV21CS026	DHANUSH K R	16	19	19	16	10	9	10	9	6	6	6	6	37	7	7	7	7	7	29	23	22	23	22	24		
26	ISV21CS027	DHEERAJ S	10	16	13	10	8	8	7	6	6	6	6	6	18	4	4	4	4	4	20	18	18	17	16	17		
27	ISV21CS028	DIPENDU KUMBHAKAR	13	19	18	13	10	9	10	8	6	6	6	6	33	7	7	7	7	7	26	23	22	23	21	23		
28	ISV21CS029	DIVYA A C	18	20	20	18	10	10	10	10	6	6	6	6	34	7	7	7	7	7	31	23	23	23	23	24		
29	ISV21CS030	DIVYA D R	18	20	17	18	10	10	10	7	6	6	6	6	36	7	7	7	7	7	31	23	23	23	20	24		
30	ISV21CS032	HARSHITHA B	13	15	16	13	8	7	9	7	6	6	6	6	0	0	0	0	0	0	19	14	13	15	13	15		
31	ISV21CS033	HEMANTH YALLAPPA HADAPAD	11	18	14	11	9	9	7	7	6	6	6	6	21	4	4	4	4	4	21	19	19	17	17	19		
32	ISV21CS034	HEMASHREE M	9	15	12	9	7	8	7	5	4	4	4	4	21	4	4	4	4	4	17	15	16	15	13	15		
33	ISV21CS035	HENJESH K O	17	20	19	17	10	10	10	9	6	6	6	6	26	5	5	5	5	5	28	21	21	21	20	22		
34	ISV21CS036	KARUNAKARA L	17	19	18	17	10	9	9	9	6	6	6	6	36	7	7	7	7	7	30	23	22	22	22	24		
35	ISV21CS037	KIRAN S	17	19	17	17	10	9	9	8	6	6	6	5	28	6	6	6	6	6	29	22	21	20	20	22		
36	ISV21CS038	KISHOR N	19	19	20	19	10	9	10	10	6	6	6	6	35	7	7	7	7	7	32	23	22	23	23	25		
37	ISV21CS039	KUSUMA R	11	10	13	11	5	5	7	6	6	6	6	6	3	1	1	1	1	1	18	12	12	14	13	13		
38	ISV21CS040	LAXMI SONNAD	20	20	19	20	10	10	10	9	6	6	6	6	38	8	8	8	8	8	34	24	24	24	23	25		
39	ISV21CS041	LIKITHA T P	18	16	13	18	8	8	7	6	6	6	6	6	25	5	5	5	5	5	29	19	19	18	17	20		

40	ISV21CS042	MAMATHA H R	16	20	18	16	10	10	8	10	6	6	6	6	6	27	5	5	5	5	5	27	21	21	19	21	22									
41	ISV21CS043	MANDARA H	14	19	15	14	10	9	9	6	6	6	6	6	6	41	8	8	8	8	8	28	24	23	23	20	24									
42	ISV21CS044	MANIKANTA M	13	15	14	13	7	8	8	6	6	6	6	6	6	30	6	6	6	6	6	25	19	20	20	18	20									
43	ISV21CS045	MANU S	19	20	17	19	10	10	10	7	6	6	6	6	6	36	7	7	7	7	7	32	23	23	23	20	24									
44	ISV21CS046	MAYUR KUSHAL PATIL	18	18	18	18	8	10	9	9	6	6	6	6	6	34	7	7	7	7	7	31	21	23	22	22	24									
45	ISV21CS048	MOHAMMED JUNAID PASHA	0	15	13	0	8	7	6	7	5	5	5	6	6	35	7	7	7	7	7	12	20	19	19	20	18									
46	ISV21CS049	NAGAPOOJA M	19	20	19	19	10	10	10	9	6	6	6	6	6	30	6	6	6	6	6	31	22	22	22	21	24									
47	ISV21CS050	NAHIDA K	19	19	18	19	10	9	9	9	5	6	6	6	6	35	7	7	7	7	7	31	23	22	22	22	24									
48	ISV21CS051	NANDAN L	10	15	14	10	6	9	7	7	5	5	6	6	6	20	4	4	4	4	4	19	15	19	17	17	17									
49	ISV21CS052	P A NIVEDITHA	19	20	18	19	10	10	8	10	6	6	6	6	6	27	5	5	5	5	5	30	21	21	19	21	23									
50	ISV21CS053	PANEENDRA E	17	17	14	17	9	8	7	7	6	5	5	5	6	30	6	6	6	6	6	29	20	19	18	19	21									
51	ISV21CS054	POOJA G	17	16	17	17	9	7	9	8	6	6	6	6	6	25	5	5	5	5	5	28	20	18	20	19	21									
52	ISV21CS055	PRADEEP KUMAR H G	16	20	17	16	10	10	10	7	6	6	6	6	6	42	8	8	8	8	8	30	24	24	24	21	25									
53	ISV21CS056	PRIYANSHU PRASHAD	17	17	17	17	9	8	8	9	6	6	6	6	6	26	5	5	5	5	5	28	20	19	19	20	21									
54	ISV21CS057	PUNEETH KUMAR R	18	17	18	18	9	8	10	8	6	6	6	6	6	37	7	7	7	7	7	31	22	21	23	21	24									
55	ISV21CS058	PUNEETH N	16	17	17	16	9	8	8	9	6	6	6	6	6	40	8	8	8	8	8	30	23	22	22	23	24									
56	ISV21CS059	PUNITH KUMAR H S	17	20	18	17	10	10	9	9	6	6	6	6	6	26	5	5	5	5	5	28	21	21	20	20	22									
57	ISV21CS060	RAJAN KUMAR SAH	10	18	14	10	9	9	7	7	6	6	6	6	6	12	2	2	2	2	2	18	17	17	15	15	17									
58	ISV21CS062	RAKSHITHA P B	11	9	14	11	5	4	7	7	6	6	6	6	6	25	5	5	5	5	5	22	16	15	18	18	18									
59	ISV21CS063	RAMYASHREE N	20	20	20	20	10	10	10	10	6	6	6	6	6	29	6	6	6	6	6	32	22	22	22	22	24									
																						27.1	20.4	20.0	20.2	19.5										
																						75.2%	78.5%	76.8%	77.6%	75.1%										

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Bas
HOD,
COMPUTER SCIENCE & ENGG.,
SIET, TUMKURU-05.

Principal Signature
PRINCIPAL
SIET, TUMKUR.



Department of Computer Science and Engineering

COURSE OUTCOME

- C01.** Explain C-Compilers and optimization
- C02.** Describe the ARM microcontroller's architectural features and program module.
- C03.** Apply the knowledge gained from programming on ARM to different applications.
- C04.** Program the basic hardware components and their application selection method.
- C05.** Demonstrate the need for a real-time operating system for embedded system application.

PROGRAM OUTCOMES

- P01** Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
- P02** Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- P03** Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.
- P04** 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.
- P05** Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.
- P06** The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.
- P07** 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.
- P08** Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- P09** Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- P010** Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.
- P011** 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.
- P012** 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. LAVANYA K														
BRANCH	CSE			ACADEMIC YEAR				2022-23							
COURSE	B.E	SEMESTER		IV	SECTION			B							
SUBJECT	MICROCONTROLLER AND EMBEDDED SYSTEMS				SUBJECT CODE			21CS43							
CO & PO MAPPING															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1					1							1	1	1	
CO2			2												
CO3	2									1		2	1	1	
CO4	2									2		1	1	1	
CO5	1									1		1			
AVERAGE	1.66		2		1					1.33		1.66	1	1	
OVERALL MAPPING OF SUBJECT												1.37			

CO - PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	65.3					0.65							0.65	0.65		
CO2	59.1			1.18												
CO3	56.5	1.13									0.56		1.13	0.56	0.56	
CO4	58.6	1.17									1.17		0.58	0.58	0.58	
CO5	56.1	0.56									0.56		0.56			
		0.95		1.18		0.65					0.76		0.73	0.59	0.57	
FINAL ATTAINMENT LEVEL													0.78			

Bas
HOD,
COMPUTER SCIENCE & ENGG.,
SIET, TUMAKURU-06.

Lavanya K

Lavanya K
PRINCIPAL
SIET, TUMKUR.



Department of Computer Science and Engineering

COURSE OUTCOME

- CO 1. Identify the structure of an operating system and its scheduling mechanism.
- CO 2. Demonstrate the allocation of resources for a process using scheduling algorithm.
- CO 3. Identify root causes of deadlock and provide the solution for deadlock elimination
- CO 4. Explore about the storage structures and learn about the Linux Operating system.
- CO 5. Analyze Storage Structures and Implement Customized Case study.

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 modelling 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: 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	RASHMI N						
BRANCH	CSE	ACADEMIC YEAR			2022-23		
COURSE	B.E	SEMESTER	IV	SECTION	A		
SUBJECT	OPERATING SYSTEM			SUBJECT CODE	21CS44		

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	3										3	2	3
CO2	3	3	2										2	2	2
CO3	3	3	3										3	2	3
CO4	3	2	2										2	2	2
CO5	3	2	3										3	2	3
Average	5	2.6	2.6										2.6	2	2.6

CO AND PO ATTAINMENT

ATTAINMENT TABLE																
COs	AVG	PO1	PO2	PO3	PO4	PO5	P O6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	27.9	0.84	0.56	0.84										0.84	0.56	0.84
CO2	21.3	0.64	0.64	0.43										0.43	0.43	0.43
CO3	21.3	0.64	0.64	0.64										0.64	0.43	0.64
CO4	23.3	0.67	0.47	0.47										0.47	0.47	0.47
CO5	23.3	0.67	0.47	0.67										0.67	0.47	0.67
AVERAGE		0.63	0.56	0.61										0.61	0.47	0.61

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

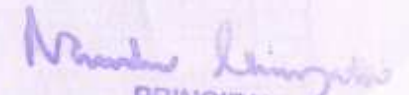
SUB:Operating System			Sem:IV 'B' SEC								2022-23								FACULTY NAME: Rashmi N											
Roll No.	USN	Name	21CS44			T1			T2			T3			ASSIGNMENT (20) + SEMINAR(20)/8					EXTERNAL					Final					TOTAL AVG
			T1 (20)	T2 (20)	T3 (20)	CO1-20	CO2-10	CO3-10	CO4-10	CO5-10	CO1-8	CO2-8	CO3-8	CO4-8	CO5-8	SEE (50)	CO1-10	CO2-10	CO3-10	CO4-10	CO5-10	CO1-38	CO2-28	CO3-28	CO4-28	CO5-28				
1	1SV21CS001	AASTHA PANDEY	18	17	20	18	9	9	10	10	8	8	8	8	8	38	7.6	7.6	7.6	7.6	7.6	33.6	24.1	24.1	25.6	25.6	26.6			
2	1SV21CS002	ABDUL MOHSIN J KHAN	19	17	20	19	9	9	10	10	8	8	8	8	8	33	6.6	6.6	6.6	6.6	6.6	33.6	23.1	23.1	24.6	24.6	25.8			
3	1SV21CS003	ABHINAV DEVARAJ T R	15	12	18	15	6	6	9	9	8	8	8	8	8	24	4.8	4.8	4.8	4.8	4.8	27.8	18.8	18.8	21.8	21.8	21.8			
4	1SV21CS004	ABHISHEK RANJAN	7	11	14	7	6	6	7	7	8	8	8	8	8	26	5.2	5.2	5.2	5.2	5.2	20.2	18.7	18.7	20.2	20.2	19.6			
5	1SV21CS005	ABRAR AHAMED I	13	10	15	13	5	5	8	8	8	8	8	8	8	34	6.8	6.8	6.8	6.8	6.8	27.8	19.8	19.8	22.3	22.3	22.4			
6	1SV21CS006	AISHWARYA S	16	13	20	16	7	7	10	10	8	8	8	8	8	27	5.4	5.4	5.4	5.4	5.4	29.4	19.9	19.9	23.4	23.4	23.2			
7	1SV21CS008	ANANYA M J	16	17	20	16	9	9	10	10	8	8	8	8	8	19	3.8	3.8	3.8	3.8	3.8	27.8	20.3	20.3	21.8	21.8	22.4			
8	1SV21CS009	ARSHIYA NAAZ	17	17	20	17	9	9	10	10	8	8	8	8	8	18	3.6	3.6	3.6	3.6	3.6	28.6	20.1	20.1	21.6	21.6	22.4			
9	1SV21CS010	BHARATH M H	12	16	20	12	8	8	10	10	8	8	8	8	8	35	7	7	7	7	7	27.0	23.0	23.0	25.0	25.0	24.6			
10	1SV21CS011	BHAVANA M R	16	15	20	16	8	8	10	10	8	8	8	8	8	25	5	5	5	5	5	29.0	20.5	20.5	23.0	23.0	23.2			
11	1SV21CS012	BHAVYA A	18	14	20	18	7	7	10	10	8	8	8	8	8	31	6.2	6.2	6.2	6.2	6.2	32.2	21.2	21.2	24.2	24.2	24.6			
12	1SV21CS013	BHAVYA S	16	14	16	16	7	7	8	8	8	8	8	8	8	29	5.8	5.8	5.8	5.8	5.8	29.8	20.8	20.8	21.8	21.8	23.0			
13	1SV21CS014	BHOOMIKA Y	9	12	18	9	6	6	9	9	8	8	8	8	8	33	6.6	6.6	6.6	6.6	6.6	23.6	20.6	20.6	23.6	23.6	22.4			
14	1SV21CS015	BHUVAN G RAMALADA	16	15	20	16	8	8	10	10	8	8	8	8	8	29	5.8	5.8	5.8	5.8	5.8	29.8	21.3	21.3	23.8	23.8	24.0			
15	1SV21CS016	BIMMI KUMARI	20	19	20	20	10	10	10	10	8	8	8	8	8	34	6.8	6.8	6.8	6.8	6.8	34.8	24.3	24.3	24.8	24.8	26.6			
16	1SV21CS017	BINDHUSHREE R	16	16	20	16	8	8	10	10	8	8	8	8	8	22	4.4	4.4	4.4	4.4	4.4	28.4	20.4	20.4	22.4	22.4	22.8			
17	1SV21CS018	CHAITHRA P	16	17	20	16	9	9	10	10	8	8	8	8	8	30	6	6	6	6	6	30.0	22.5	22.5	24.0	24.0	24.6			
18	1SV21CS019	CHAITHRA V	15	16	20	15	8	8	10	10	8	8	8	8	8	36	7.2	7.2	7.2	7.2	7.2	30.2	23.2	23.2	25.2	25.2	25.4			
19	1SV21CS020	CHANDANA G	16	15	20	16	8	8	10	10	8	8	8	8	8	29	5.8	5.8	5.8	5.8	5.8	29.8	21.3	21.3	23.8	23.8	24.0			
20	1SV21CS021	CHANDANA N H	7	9	13	7	5	5	7	7	8	8	8	8	8	18	3.6	3.6	3.6	3.6	3.6	18.6	16.1	16.1	18.1	18.1	17.4			
21	1SV21CS022	CHANDU P	19	19	20	19	10	10	10	10	8	8	8	8	8	34	6.8	6.8	6.8	6.8	6.8	33.8	24.3	24.3	24.8	24.8	26.4			
22	1SV21CS023	CHITHRA J P	14	17	20	14	9	9	10	10	8	8	8	8	8	37	7.4	7.4	7.4	7.4	7.4	29.4	23.9	23.9	25.4	25.4	25.6			
23	1SV21CS024	D P HARSHITHA	15	15	20	15	8	8	10	10	8	8	8	8	8	26	5.2	5.2	5.2	5.2	5.2	28.2	20.7	20.7	23.2	23.2	23.2			
24	1SV21CS025	DARSHAN K	12	11	18	12	6	6	9	9	8	8	8	8	8	29	5.8	5.8	5.8	5.8	5.8	25.8	19.3	19.3	22.8	22.8	22.0			
25	1SV21CS026	DHANUSH K R	17	19	20	17	10	10	10	10	8	8	8	8	8	39	7.8	7.8	7.8	7.8	7.8	32.8	25.3	25.3	25.8	25.8	27.0			
26	1SV21CS027	DHEERAJ S	10	14	14	10	7	7	7	7	8	8	8	8	8	28	5.6	5.6	5.6	5.6	5.6	23.6	20.6	20.6	20.6	20.6	21.2			
27	1SV21CS028	DIPENDU KUMBHAKAR	12	16	20	12	8	8	10	10	8	8	8	8	8	18	3.6	3.6	3.6	3.6	3.6	23.6	19.6	19.6	21.6	21.6	21.2			
28	1SV21CS029	DIVYA A C	15	17	20	15	9	9	10	10	8	8	8	8	8	34	6.8	6.8	6.8	6.8	6.8	29.8	23.3	23.3	24.8	24.8	25.2			
29	1SV21CS030	DIVYA D R	18	18	20	18	9	9	10	10	8	8	8	8	8	36	7.2	7.2	7.2	7.2	7.2	33.2	24.2	24.2	25.2	25.2	26.4			
30	1SV21CS032	HARSHITHA B	11	10	13	11	5	5	7	7	8	8	8	8	8	19	3.8	3.8	3.8	3.8	3.8	22.8	16.8	16.8	18.3	18.3	18.6			
31	1SV21CS033	HEMANTH YALLAPPA HADAPAD	5	14	17	5	7	7	9	9	8	8	8	8	8	12	2.4	2.4	2.4	2.4	2.4	15.4	17.4	17.4	18.9	18.9	17.6			
32	1SV21CS034	HEMASHREE M	4	12	18	4	6	6	9	9	8	8	8	8	8	31	6.2	6.2	6.2	6.2	6.2	18.2	20.2	20.2	23.2	23.2	21.0			
33	1SV21CS035	HENJESH K O	18	14	20	18	7	7	10	10	8	8	8	8	8	26	5.2	5.2	5.2	5.2	5.2	31.2	20.2	20.2	23.2	23.2	23.6			
34	1SV21CS036	KARUNAKARA L	16	15	19	16	8	8	10	10	8	8	8	8	8	33	6.6	6.6	6.6	6.6	6.6	30.6	22.1	22.1	24.1	24.1	24.6			
35	1SV21CS037	KIRAN S	11	10	20	11	5	5	10	10	8	8	8	8	8	25	5	5	5	5	5	24.0	18.0	18.0	23.0	23.0	21.2			
36	1SV21CS038	KISHOR N	17	18	20	17	9	9	10	10	8	8	8	8	8	38	7.6	7.6	7.6	7.6	7.6	32.6	24.6	24.6	25.6	25.6	26.6			
37	1SV21CS039	KUSUMA R	4	10	16	4	5	5	8	8	8	8	8	8	8	7	1.4	1.4	1.4	1.4	1.4	13.4	14.4	14.4	17.4	17.4	15.4			
38	1SV21CS040	LAXMI SONNAD	17	18	20	17	9	9	10	10	8	8	8	8	8	37	7.4	7.4	7.4	7.4	7.4	32.4	24.4	24.4	25.4	25.4	26.4			
39	1SV21CS041	LIKITHA T P	12	15	19	12	8	8	10	10	8	8	8	8	8	39	7.8	7.8	7.8	7.8	7.8	27.8	23.3	23.3	25.3	25.3	25.0			

40	ISV21CS042	MAMATHA H R	12	19	20	12	10	10	10	10	8	8	8	8	8	32	6.4	6.4	6.4	6.4	6.4	26.4	23.9	23.9	24.4	24.4	24.6																		
41	ISV21CS043	MANDARA H	16	13	19	16	7	7	10	10	8	8	8	8	8	43	8.6	8.6	8.6	8.6	8.6	32.6	23.1	23.1	26.1	26.1	26.2																		
42	ISV21CS044	MANIKANTA M	9	13	18	9	7	7	9	9	8	8	8	8	8	24	4.8	4.8	4.8	4.8	4.8	21.8	19.3	19.3	21.8	21.8	20.8																		
43	ISV21CS045	MANU S	17	17	20	17	9	9	10	10	8	8	8	8	8	37	7.4	7.4	7.4	7.4	7.4	32.4	23.9	23.9	25.4	25.4	26.2																		
44	ISV21CS046	MAYUR KUSHAL PATIL	15	7	14	15	4	4	7	7	8	8	8	8	8	40	8	8	8	8	8	31.0	19.5	19.5	23.0	23.0	23.2																		
45	ISV21CS048	MOHAMMED JUNAID PASHA	15	12	20	15	6	6	10	10	8	8	8	8	8	90	18	18	18	18	18	41.0	32.0	32.0	36.0	36.0	35.4																		
46	ISV21CS049	NAGAPOOJA M	17	19	20	17	10	10	10	10	8	8	8	8	8	38	7.6	7.6	7.6	7.6	7.6	32.6	25.1	25.1	25.6	25.6	26.8																		
47	ISV21CS050	NAHIDA K	13	17	20	13	9	9	10	10	8	8	8	8	8	35	7	7	7	7	7	28.0	23.5	23.5	25.0	25.0	25.0																		
48	ISV21CS051	NANDAN L	10	6	13	10	3	3	7	7	8	8	8	8	8	25	5	5	5	5	5	23.0	16.0	16.0	19.5	19.5	18.8																		
49	ISV21CS052	P A NIVEDITHA	16	17	20	16	9	9	10	10	8	8	8	8	8	41	8.2	8.2	8.2	8.2	8.2	32.2	24.7	24.7	26.2	26.2	26.8																		
50	ISV21CS053	PANEENDRA E	10	11	17	10	6	6	9	9	8	8	8	8	8	27	5.4	5.4	5.4	5.4	5.4	23.4	18.9	18.9	21.9	21.9	21.0																		
51	ISV21CS054	POOJA G	11	9	18	11	5	5	9	9	8	8	8	8	8	36	7.2	7.2	7.2	7.2	7.2	26.2	19.7	19.7	24.2	24.2	22.8																		
52	ISV21CS055	PRADEEP KUMAR H G	12	15	20	12	8	8	10	10	8	8	8	8	8	34	6.8	6.8	6.8	6.8	6.8	26.8	22.3	22.3	24.8	24.8	24.2																		
53	ISV21CS056	PRIYANSHU PRASHAD	18	14	19	18	7	7	10	10	8	8	8	8	8	21	4.2	4.2	4.2	4.2	4.2	30.2	19.2	19.2	21.7	21.7	22.4																		
54	ISV21CS057	PUNEETH KUMAR R	10	9	14	10	5	5	7	7	8	8	8	8	8	35	7	7	7	7	7	25.0	19.5	19.5	22.0	22.0	21.6																		
55	ISV21CS058	PUNEETH N	11	15	18	11	8	8	9	9	8	8	8	8	8	22	4.4	4.4	4.4	4.4	4.4	23.4	19.9	19.9	21.4	21.4	21.2																		
56	ISV21CS059	PUNITH KUMAR H S	18	12	16	18	6	6	8	8	8	8	8	8	8	32	6.4	6.4	6.4	6.4	6.4	32.4	20.4	20.4	22.4	22.4	23.6																		
57	ISV21CS060	RAJAN KUMAR SAH	10	16	16	10	8	8	8	8	8	8	8	8	8	19	3.8	3.8	3.8	3.8	3.8	21.8	19.8	19.8	19.8	19.8	20.2																		
58	ISV21CS062	RAKSHITHA P B	10	12	13	10	6	6	7	7	8	8	8	8	8	23	4.6	4.6	4.6	4.6	4.6	22.6	18.6	18.6	19.1	19.1	19.6																		
59	ISV21CS063	RAMYASHREE N	16	19	20	16	10	10	10	10	8	8	8	8	8	38	7.6	7.6	7.6	7.6	7.6	31.6	25.1	25.1	25.6	25.6	26.6																		
																							27.9	21.3	21.3	23.3	23.3																		


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COMPUTER SCIENCE & ENGG.,
SIET, TUMAKURU-06.


PRINCIPAL
SIET, TUMKUR.



Department of Computer Science and Engineering

COURSE OUTCOME

- C01.** Identify the structure of an operating system and its scheduling mechanism.
- C02.** Demonstrate the allocation of resources for a process using scheduling algorithm.
- C03.** Identify root causes of deadlock and provide the solution for deadlock elimination
- C04.** Explore about the storage structures and learn about the Linux Operating system.
- C05.** Analyze Storage Structures and Implement Customized Case study

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 modelling 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: 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	DR. RAJESWARI R					
BRANCH	CSE	ACADEMIC YEAR			2022-23	
COURSE	B.E	SEMESTER	IV	SECTION	B	
SUBJECT	OPERATING SYSTEM			SUBJECT CODE	21CS44	

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	3										3	2	3
CO2	3	3	2										2	2	2
CO3	3	3	3										3	2	3
CO4	3	2	2										2	2	2
CO5	3	2	3										3	2	3
Average	5	2.6	2.6										2.6	2	2.6

CO AND PO ATTAINMENT

ATTAINMENT TABLE																
COs	AV G	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	24.2	0.73	0.49	0.73										0.73	0.49	0.73
CO2	24.0	0.72	0.72	0.48										0.48	0.48	0.48
CO3	20.4	0.61	0.61	0.61										0.61	0.41	0.61
CO4	21.1	0.63	0.42	0.42										0.42	0.42	0.42
CO5	21.1	0.63	0.42	0.63										0.63	0.42	0.63
AVERAGE		2.8	0.53	0.57										0.57	0.44	0.57

Department of Computer Science & Engineering

SUB: Operating System			Sem:IV 'B' SEC													2022-23		EVEN					FACULTY:Dr Rajeswari.R					TOTAL AVG								
Roll No.	USN	Name	21CS44			T1		T2		T3		SIGNMENT (20) + SEMINAR(20)					EXTERNAL					Final														
			T1 (20)	T2 (20)	T3 (20)	CO1- 15	CO2-5	CO2- 10	CO3- 10	CO4- 10	CO5- 10	CO1- 8	CO2- 8	CO3-8	CO4-8	CO5- 8	SEE (50)	CO1- 10	CO2- 10	CO3- 10	CO4- 10	CO5- 10	CO1- 20	CO2- 20	CO3- 20	CO4- 20	CO5- 20									
1	1SV21CS064	ROJA G	9	10	12	7	2.3	5.0	5.0	6.0	6.0	8	8	8	8	8	6	1.2	1.2	1.2	1.2	1.2	16.0	16.5	14.2	15.2	15.2	15.4								
2	1SV21CS065	SAHANA D N	14	15	14	11	3.5	7.5	7.5	7.0	7.0	8	8	8	8	8	23	4.6	4.6	4.6	4.6	4.6	23.1	23.6	20.1	19.6	19.6	21.2								
3	1SV21CS066	SAHIL MUBARAK	13	8	10	10	3.3	4.0	4.0	5.0	5.0	8	8	8	8	8	18	3.6	3.6	3.6	3.6	3.6	21.4	18.9	15.6	16.6	16.6	17.8								
4	1SV21CS067	SANJAY RAMESH NAIK	14	17	15	11	3.5	8.5	8.5	7.5	7.5	8	8	8	8	8	21	4.2	4.2	4.2	4.2	4.2	22.7	24.2	20.7	19.7	19.7	21.4								
5	1SV21CS068	SARANYA B	15	14	16	11	3.8	7.0	7.0	8.0	8.0	8	8	8	8	8	34	6.8	6.8	6.8	6.8	6.8	26.1	25.6	21.8	22.8	22.8	23.8								
6	1SV21CS069	SHASHIREKHA K N	13	7	13	10	3.3	3.5	3.5	6.5	6.5	8	8	8	8	8	29	5.8	5.8	5.8	5.8	5.8	23.6	20.6	17.3	20.3	20.3	20.4								
7	1SV21CS070	SHREYA T S	17	19	20	13	4.3	9.5	9.5	10.0	10.0	8	8	8	8	8	43	8.6	8.6	8.6	8.6	8.6	29.4	30.4	26.1	26.6	26.6	27.8								
8	1SV21CS071	SHREYAS SURESH	15	16	19	11	3.8	8.0	8.0	9.5	9.5	8	8	8	8	8	34	6.8	6.8	6.8	6.8	6.8	26.1	26.6	22.8	24.3	24.3	24.8								
9	1SV21CS072	SNEHA G	17	17	20	13	4.3	8.5	8.5	10.0	10.0	8	8	8	8	8	37	7.4	7.4	7.4	7.4	7.4	28.2	28.2	23.9	25.4	25.4	26.2								
10	1SV21CS073	SOUMYA	16	16	19	12	4.0	8.0	8.0	9.5	9.5	8	8	8	8	8	28	5.6	5.6	5.6	5.6	5.6	25.6	25.6	21.6	23.1	23.1	23.8								
11	1SV21CS074	SOWMYASHRI S	15	13	15	11	3.8	6.5	6.5	7.5	7.5	8	8	8	8	8	18	3.6	3.6	3.6	3.6	3.6	22.9	21.9	18.1	19.1	19.1	20.2								
12	1SV21CS075	SOWNDARYA K A	14	10	14	11	3.5	5.0	5.0	7.0	7.0	8	8	8	8	8	24	4.8	4.8	4.8	4.8	4.8	23.3	21.3	17.8	19.8	19.8	20.4								
13	1SV21CS076	SPANDANA B GOWDA	17	19	20	13	4.3	9.5	9.5	10.0	10.0	8	8	8	8	8	30	6	6	6	6	6	26.8	27.8	23.5	24.0	24.0	25.2								
14	1SV21CS077	SUJAN TIMMAPPA NAIK	17	15	16	13	4.3	7.5	7.5	8.0	8.0	8	8	8	8	8	31	6.2	6.2	6.2	6.2	6.2	27.0	26.0	21.7	22.2	22.2	23.8								
15	1SV21CS078	SUMA M T	17	19	20	13	4.3	9.5	9.5	10.0	10.0	8	8	8	8	8	41	8.2	8.2	8.2	8.2	8.2	29.0	30.0	25.7	26.2	26.2	27.4								
16	1SV21CS080	TASMIYA BANU	9	14	10	7	2.3	7.0	7.0	5.0	5.0	8	8	8	8	8	18	3.6	3.6	3.6	3.6	3.6	18.4	20.9	18.6	16.6	16.6	18.2								
17	1SV21CS081	UMESH	14	10	8	11	3.5	5.0	5.0	4.0	4.0	8	8	8	8	8	18	3.6	3.6	3.6	3.6	3.6	22.1	20.1	16.6	15.6	15.6	18.0								
18	1SV21CS082	VEENA N	15	18	18	11	3.8	9.0	9.0	9.0	9.0	8	8	8	8	8	38	7.6	7.6	7.6	7.6	7.6	26.9	28.4	24.6	24.6	24.6	25.8								
19	1SV21CS083	VIDHYA S	12	11	17	9	3.0	5.5	5.5	8.5	8.5	8	8	8	8	8	18	3.6	3.6	3.6	3.6	3.6	20.6	20.1	17.1	20.1	20.1	19.6								
20	1SV21CS084	VINAY KUMAR R	12	10	9	9	3.0	5.0	5.0	4.5	4.5	8	8	8	8	8	22	4.4	4.4	4.4	4.4	4.4	21.4	20.4	17.4	16.9	16.9	18.6								
21	1SV21CS085	VISHNU THIRTHA TADPATRI	13	7	13	10	3.3	3.5	3.5	6.5	6.5	8	8	8	8	8	22	4.4	4.4	4.4	4.4	4.4	22.2	19.2	15.9	18.9	18.9	19.0								
22	1SV21CS086	YOJITH SIDDESHWAR G	19	16	17	14	4.8	8.0	8.0	8.5	8.5	8	8	8	8	8	36	7.2	7.2	7.2	7.2	7.2	29.5	28.0	23.2	23.7	23.7	25.6								
23	1SV21CS087	ZAINAB FAKRUDDIN	14	17	16	11	3.5	8.5	8.5	8.0	8.0	8	8	8	8	8	37	7.4	7.4	7.4	7.4	7.4	25.9	27.4	23.9	23.4	23.4	24.8								
																						24.2	24.0	20.4	21.1	21.1										

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COMPUTER SCIENCE & ENGG.
SIET, TUMAKURU-06.

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SIET, TUMKUR.

Department of Computer Science and Engineering

COURSE OUTCOME

- CO1.** Holistic vision of life
- CO2.** Socially responsible behaviour
- CO3.** Environmentally responsible work
- CO4.** Ethical human conduct
- CO5.** Having Competence and Capabilities for Maintaining Health and Hygiene
- CO6.** Appreciation and aspiration for excellence (merit) and gratitude for all

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. UMESH B L															
BRANCH	CSE			ACADEMIC YEAR				2022-23								
COURSE	B.E	SEMESTER		IV	SECTION			B								
SUBJECT	UNIVERSAL HUMAN VALUES					SUBJECT CODE			21UHV49							
CO & PO MAPPING																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	
CO1		1										3	1	2	1	
CO2							1						1			
CO3						2							2	1		
CO4								3				1	1		2	
CO5							2					1	1		1	
CO6	1	1		1				1					2	1		
AVERAGE	1	1		1		2	1.5	2					1.6	1.3	1.3	1.3
OVERALL MAPPING OF SUBJECT												1.4				

CO - PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	85.9		0.85										2.57	0.85	1.71	0.85
CO2	84.6							0.84						0.84		
CO3	85.2						1.70							1.70	0.85	
CO4	81								2.43				0.81	0.81		1.62
CO5	74.6							1.49					0.74	0.74		0.74
CO6	67.8	0.67	0.67		0.67				0.67					1.35	0.67	
AVERAGE		0.67	0.76		0.67		1.70	1.16	1.55				1.37	1.04	1.07	1.07
FINAL ATTAINMENT LEVEL													1.10			

SUB: Universal Human Values			Sem: IV 'B' SEC						2022-23						EVEN						DEPT: ISE						FACULTY: MR Umesh B L						TOTAL AVG			
Roll No.	USN	Name	21UB09			T1			T2			T3			ASSIGNMENT 10 + Quiz 20						EXTERNAL						FINAL									
			T1	T2	T3	CO1-10	CO2-10	CO3-10	CO4-10	CO5-10	CO6-10	CO1-5	CO2-5	CO3-5	CO4-5	CO5-5	CO6-5	SEE (50)	CO1-8	CO2-8	CO3-8	CO4-8	CO5-8	CO6-10	CO1-23	CO2-23	CO3-23	CO4-23	CO5-23	CO6-25						
1	1SV21CS064	ROJA G	15	19	14	8	7	10	9	7	7	5	4	4	5	5	5	19	3.2	3.2	3.2	3.2	3.2	3.2	16.2	14.2	17.2	17.2	15.2	15.2	15.8					
2	1SV21CS065	SAHANA D N	15	20	12	7	8	10	10	6	6	5	4	5	5	5	5	26	4.3	4.3	4.3	4.3	4.3	4.3	16.3	16.3	19.3	19.3	15.3	15.3	17.0					
3	1SV21CS066	SAHIL MUBARAK	17	17	13	8	9	10	7	6	7	4	4	4	4	5	41	6.8	6.8	6.8	6.8	6.8	6.8	18.8	19.8	20.8	17.8	16.8	18.8	18.8						
4	1SV21CS067	SANJAY RAMESH NAIK	19	17	13	10	9	10	7	6	7	5	5	5	5	4	40	6.7	6.7	6.7	6.7	6.7	6.7	21.7	20.7	21.7	18.7	17.7	17.7	19.7						
5	1SV21CS068	SARANYA B	20	18	14	10	10	10	8	7	7	5	5	5	5	5	37	6.2	6.2	6.2	6.2	6.2	6.2	21.2	21.2	21.2	19.2	18.2	18.2	19.8						
6	1SV21CS069	SHASHIREKHA K N	18	16	14	10	8	8	8	7	7	4	4	4	5	5	5	27	4.5	4.5	4.5	4.5	4.5	4.5	18.5	16.5	16.5	17.5	16.5	16.5	17.0					
7	1SV21CS070	SHREYA T S	19	19	15	10	9	10	9	7	8	5	5	5	5	5	4	42	7.0	7.0	7.0	7.0	7.0	7.0	22.0	21.0	22.0	21.0	19.0	19.0	20.7					
8	1SV21CS071	SHREYAS SURESH SALUNKHE	20	17	14	10	10	8	9	7	7	4	5	5	5	5	4	27	4.5	4.5	4.5	4.5	4.5	4.5	18.5	19.5	17.5	18.5	16.5	15.5	17.7					
9	1SV21CS072	SNEHA G	20	18	17	10	10	10	8	10	7	4	5	5	5	4	42	7.0	7.0	7.0	7.0	7.0	7.0	21.0	22.0	22.0	20.0	22.0	18.0	20.8						
10	1SV21CS073	SOUMYA	20	16	13	10	10	8	8	6	7	5	5	5	5	5	44	7.3	7.3	7.3	7.3	7.3	7.3	22.3	22.3	20.3	20.3	18.3	19.3	20.5						
11	1SV21CS074	SOWMYASHRI S	20	10	13	10	10	5	5	6	7	5	5	5	5	4	41	6.8	6.8	6.8	6.8	6.8	6.8	21.8	21.8	16.8	16.8	17.8	17.8	18.8						
12	1SV21CS075	SOWNDARYA K A	20	17	13	10	10	10	7	7	6	5	5	5	5	4	20	3.3	3.3	3.3	3.3	3.3	3.3	18.3	18.3	18.3	15.3	15.3	13.3	16.5						
13	1SV21CS076	SPANDANA B GOWDA	20	17	14	10	10	8	9	7	7	5	5	5	5	5	37	6.2	6.2	6.2	6.2	6.2	6.2	21.2	21.2	19.2	20.2	18.2	18.2	19.7						
14	1SV21CS077	SUJAN TIMMAPPANAIK	19	15	12	10	9	7	8	6	6	5	5	5	5	5	37	6.2	6.2	6.2	6.2	6.2	6.2	21.2	20.2	18.2	19.2	17.2	17.2	18.8						
15	1SV21CS078	SUMA M T	20	17	13	10	10	10	7	7	6	5	5	5	5	5	33	5.5	5.5	5.5	5.5	5.5	5.5	20.5	20.5	20.5	17.5	17.5	16.5	18.8						
16	1SV21CS080	TASMIYA BANU	17	20	15	10	7	10	10	7	8	3	4	4	5	5	4	39	6.5	6.5	6.5	6.5	6.5	6.5	19.5	17.5	20.5	21.5	18.5	18.5	19.3					
17	1SV21CS081	UMESH	18	18	12	10	8	10	8	6	6	3	4	4	5	5	5	32	5.3	5.3	5.3	5.3	5.3	5.3	18.3	17.3	19.3	18.3	16.3	16.3	17.7					
18	1SV21CS082	VEENA N	19	18	13	10	9	10	8	7	6	5	5	5	5	4	4	35	5.8	5.8	5.8	5.8	5.8	5.8	20.8	19.8	20.8	18.8	16.8	15.8	18.8					
19	1SV21CS083	VIDHYA S	20	18	10	10	10	10	8	5	5	4	4	4	5	4	4	27	4.5	4.5	4.5	4.5	4.5	4.5	18.5	18.5	18.5	17.5	13.5	13.5	16.7					
20	1SV21CS084	VINAY KUMAR R	20	18	12	10	10	10	8	6	6	3	4	4	5	5	5	32	5.3	5.3	5.3	5.3	5.3	5.3	18.3	19.3	19.3	18.3	16.3	16.3	18.0					
21	1SV21CS085	VISHNU THIRTHA TADPATRI	18	13	12	10	8	7	6	6	6	4	5	5	5	3	4	37	6.2	6.2	6.2	6.2	6.2	6.2	20.2	19.2	18.2	17.2	15.2	16.2	17.7					
22	1SV21CS086	YOJITH SIDDESHWAR G	20	19	15	10	10	10	9	7	8	3	4	5	5	5	5	37	6.2	6.2	6.2	6.2	6.2	6.2	19.2	20.2	21.2	20.2	18.2	19.2	19.7					
23	1SV21CS087	ZAINAB FAKRUDDIN	20	17	15	10	10	10	7	8	7	4	4	5	5	4	4	38	6.3	6.3	6.3	6.3	6.3	6.3	20.3	20.3	21.3	18.3	18.3	17.3	19.3					
			19.77	19.46	19.59	18.64	17.16	16.94																												
			85.9%	84.6%	85.2%	81.0%	74.6%	67.8%																												


STAFF SIGNATURE


HOD, CSE
HOD,
COMPUTER SCIENCE & ENGG.,
SIET, TUMAKURU-08.
PRINCIPAL
SIET, TUMKUR.

Department of Computer Science and Engineering

COURSE OUTCOME

- CO1.** Explain System software.
- CO2.** Design and develop lexical analyzers, parsers and code generators.
- CO3.** Utilize lex and yacc tools for implementing different concepts of system software.

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. MERLIN B														
BRANCH	CSE			ACADEMIC YEAR				2022-23							
COURSE	B.E	SEMESTER			VI	SECTION									
SUBJECT	SYSTEM SOFTWARE AND COMPILERS						SUBJECT CODE			18CS61					
CO & PO MAPPING															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2											2	3	2
CO2	3	3	2										2	3	3
CO3	3	3	1										2	3	3
AVERAGE	3	2.66	1.5										2	3	2.66
OVERALL MAPPING OF SUBJECT												2.47			

CO - PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	70.3	2.10	1.40											1.40	2.10	1.40
CO2	75.3	2.25	2.25	1.50										1.50	2.25	2.25
CO3	74.8	2.24	2.24	0.74										1.49	2.24	2.24
AVERAGE		2.19	1.96	1.12										1.46	2.19	1.96
FINAL ATTAINMENT LEVEL													1.81			

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

SUB: System Software & Compilers			Sem: VI			2022-23			EVEN			FACULTY NAME:			MRS. MERLIN B			TOTAL AVG	
Roll No.	USN	NAME	18CS61			T1	T2	T3	ASSIGNMENT 10			EXTERNAL			FINAL				
			T1	T2	T3	CO1-30	CO2-30	CO3-30	CO1-3	CO2-5	CO3-2	SEE (60)	CO1-20	CO2-20	CO3-20	CO1-53	CO2-55		CO3-52
1	ISV19CS017	BHARGAV N	17	21	14	17	21	14	3	5	2	6	2	2	2	22	28	18	22.7
2	ISV20CS001	ANUSHA B S	29	30	30	29	30	30	3	5	2	33	11	11	11	43	46	43	44.0
3	ISV20CS002	ANUSHA R	30	30	30	30	30	30	3	5	2	34	11.3	11.3	11.3	44	46	43	44.7
4	ISV20CS003	ASFA KHANUM	26	30	30	26	30	30	3	5	2	36	12	12	12	41	47	44	44.0
5	ISV20CS004	ASHA	30	30	30	30	30	30	3	5	2	33	11	11	11	44	46	43	44.3
6	ISV20CS005	ASHWINI S	27	30	30	27	30	30	3	5	2	27	9	9	9	39	44	41	41.3
7	ISV20CS006	BORISH KONGBRAILATPAM	26	24	30	26	24	30	3	5	2	29	9.7	9.7	9.7	39	39	42	39.7
8	ISV20CS007	DHEERAJ KUMAR P	14	17	20	14	17	20	3	5	2	6	2	2	2	19	24	24	22.3
9	ISV20CS008	DIBESH SRESTHA	26	30	30	26	30	30	3	5	2	27	9	9	9	38	44	41	41.0
10	ISV20CS009	EMILY LAURA	27	30	30	27	30	30	3	5	2	31	10.3	10.3	10.3	40	45	42	42.7
11	ISV20CS010	G MALINGARAYA	30	30	30	30	30	30	3	5	2	44	14.7	14.7	14.7	48	50	47	48.0
12	ISV20CS011	GIRISHA V	23	27	27	23	27	27	3	5	2	32	10.7	10.7	10.7	37	43	40	39.7
13	ISV20CS012	H R ABHINANDAN	20	25	28	20	25	28	3	5	2	31	10.3	10.3	10.3	33	40	40	38.0
14	ISV20CS013	HABIBULLA SADIK MULLA	23	30	30	23	30	30	3	5	2	48	16	16	16	42	51	48	47.0
15	ISV20CS014	HARSHITHA T A	30	30	30	30	30	30	3	5	2	43	14.3	14.3	14.3	47	49	46	47.7
16	ISV20CS015	JAHDUL ISLAM	30	29	30	30	29	30	3	5	2	32	10.7	10.7	10.7	44	45	43	43.7
17	ISV20CS016	JAYANTH D S	26	30	26	26	30	26	3	5	2	25	8.3	8.3	8.3	37	43	36	39.0
18	ISV20CS017	KAVYA M	30	30	30	30	30	30	3	5	2	37	12.3	12.3	12.3	45	47	44	45.7
19	ISV20CS018	KEERTHANA KUMBAR	27	30	30	27	30	30	3	5	2	38	12.7	12.7	12.7	43	48	45	45.0
20	ISV20CS019	M P SHISHIER	15	30	15	15	30	15	3	5	2	1	0.3	0.3	0.3	18	35	17	23.7
21	ISV20CS020	MADHURA SHREE M	30	30	30	30	30	30	3	5	2	34	11.3	11.3	11.3	44	46	43	44.7
22	ISV20CS021	MAJMAANJUM	26	30	30	26	30	30	3	5	2	23	7.7	7.7	7.7	37	43	40	39.7
23	ISV20CS022	MAMATHA K	19	30	27	19	30	27	3	5	2	44	14.7	14.7	14.7	37	50	44	43.3
24	ISV20CS023	MANOJ KUMAR PATIL	21	24	24	21	24	24	3	5	2	27	9	9	9	33	38	35	35.3
25	ISV20CS024	MANTESH H RANGARADDI	28	25	30	28	25	30	3	5	2	39	13	13	13	44	43	45	44.0
26	ISV20CS025	MOHAMMED NABIL	15	15	20	15	15	20	3	5	2	11	3.7	3.7	3.7	22	24	26	23.7
27	ISV20CS026	MOHAMMED OWAIS KHAN	15	15	19	15	15	19	3	5	2	24	8	8	8	26	28	29	27.7
28	ISV20CS028	MONIKA A	23	30	30	23	30	30	3	5	2	28	9.3	9.3	9.3	35	44	41	40.3
29	ISV20CS029	MYTHRI B N	23	29	19	23	29	19	3	5	2	29	9.7	9.7	9.7	36	44	31	36.7
30	ISV20CS031	NAYANA D G	27	30	30	27	30	30	3	5	2	31	10.3	10.3	10.3	40	45	42	42.7
31	ISV20CS032	NETHRA PRASAD D R	17	24	25	17	24	25	3	5	2	21	7	7	7	27	36	34	32.3

Roll No.	USN	NAME	18CS61			T1	T2	T3	ASSIGNMENT 10			EXTERNAL			FINAL			TOTAL AVG		
			T1	T2	T3	COI-30	CO2-30	CO3-30	COI-3	CO2-5	CO3-2	SEE (60)	COI-20	CO2-20	CO3-20	COI-53	CO2-55		CO3-52	
32	1SV20CS033	PARTHA H R	30	30	30	30	30	30	3	5	2	15	5	5	5	38	40	37	38.3	
33	1SV20CS034	PUSHPRAJ	30	30	30	30	30	30	3	5	2	41	13.67	13.67	13.67	47	49	46	47.0	
34	1SV20CS035	RAHUL AJITH KUMBAR	28	30	30	28	30	30	3	5	2	21	7	7	7	38	42	39	39.7	
35	1SV20CS036	ROUSHANI BEGUM	24	30	30	24	30	30	3	5	2	28	9.3	9.3	9.3	36	44	41	40.7	
36	1SV20CS037	SADASHISH KUMAR BHOKTA	29	30	30	29	30	30	3	5	2	43	14.3	14.3	14.3	46	49	46	47.3	
37	1SV20CS038	SAGAR S K	22	15	24	22	15	24	3	5	2	6	2	2	2	27	22	28	25.7	
38	1SV20CS039	SANIYA SARDAR	30	30	30	30	30	30	3	5	2	45	15	15	15	48	50	47	48.3	
39	1SV20CS040	SEKH FARDEEN	20	30	30	20	30	30	3	5	2	41	13.67	13.67	13.67	37	49	46	43.7	
40	1SV20CS041	SHAIK RABBANI	23	18	8	23	18	8	3	5	2	33	11	11	11	37	34	21	30.7	
41	1SV20CS042	SHARIBA FIRDOSE	25	30	30	25	30	30	3	5	2	16	5.3	5.3	5.3	33	40	37	37.0	
42	1SV20CS045	SHRAVANAKUMARA T	24	30	30	24	30	30	3	5	2	25	8.3	8.3	8.3	35	43	40	39.7	
43	1SV20CS046	SIDHANT PANDIT	15	23	12	15	23	12	3	5	2	21	7	7	7	25	35	21	27.0	
44	1SV20CS047	SMRITI DEWANGAN	30	30	30	30	30	30	3	5	2	26	8.7	8.7	8.7	42	44	41	42.0	
45	1SV20CS048	SOUVIK KARAK	18	13	30	18	13	30	3	5	2	21	7	7	7	28	25	39	30.7	
46	1SV20CS049	SRIKIRAN B	16	12	30	16	12	30	3	5	2	30	10	10	10	29	27	42	32.7	
47	1SV20CS050	SUSHMITHA K	30	30	30	30	30	30	3	5	2	40	13.3	13.3	13.3	46	48	45	46.7	
48	1SV20CS051	TEJASHWINI R	23	30	30	23	30	30	3	5	2	24	8	8	8	34	43	40	39.0	
49	1SV20CS052	TEJESHWAR T R	13	10	23	13	10	23	3	5	2	14	4.7	4.7	4.7	21	20	30	23.3	
50	1SV20CS053	USHA B N	30	30	30	30	30	30	3	5	2	34	11.3	11.3	11.3	44	46	43	44.7	
51	1SV20CS054	VAISHNAVI BHUSHAN	30	30	30	30	30	30	3	5	2	39	13	13	13	46	48	45	46.3	
52	1SV20CS055	VARSHITHA T N	30	30	30	30	30	30	3	5	2	44	14.7	14.7	14.7	48	50	47	48.0	
53	1SV20CS056	VENKATESH DALAWAI	30	30	30	30	30	30	3	5	2	35	11.7	11.7	11.7	45	47	44	45.0	
																37.252	41.4403	38.9119		
																70.3%	75.3%	74.8%		


STAFF SIGNATURE


HOD, CSE
HOD,
COMPUTER SCIENCE & ENGG.
SIET, TUMAKURU-06.


PRINCIPAL
SIET, TUMKUR.

Department of Computer Science and Engineering

COURSE OUTCOME

- CO1.** Design and implement algorithms for 2D graphics primitives and attributes.
- CO2.** Illustrate Geometric transformations on both 2D and 3D objects.
- CO3.** Apply concepts of clipping and visible surface detection in 2D and 3D viewing, and Illumination Models.
- CO4.** Decide suitable hardware and software for developing graphics packages using OpenGL

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. RENUKARADHYA P C														
BRANCH	CSE			ACADEMIC YEAR				2022-23							
COURSE	B.E	SEMESTER		VI	SECTION										
SUBJECT	COMUTER GRAPHICS AND VISUALIZATION						SUBJECT CODE			18CS62					
CO & PO MAPPING															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2											2	3	2
CO2	3	3	2										2	3	3
CO3	3	3	1										2	3	3
CO4	3	3	1										2	3	3
AVERAGE	3	2.75	1.33										2	3	3
OVERALL MAPPING OF SUBJECT												2.51			

CO - PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	75.9	2.77	1.51											1.51	2.77	1.51
CO2	77.7	2.33	2.33	1.55										1.55	2.33	2.33
CO3	88.5	2.65	2.65	0.88										1.77	2.65	2.65
CO4	87.5	2.62	2.62	0.87										1.75	2.62	2.62
AVERAGE		2.59	2.27	1.1										1.64	2.59	2.27
FINAL ATTAINMENT LEVEL													2.07			

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

SUB:Computer Graphics and Visualization			Sem:VI				2022-23		EVEN				FACULTY NAME :Mr.Renukaradhya P C												
Roll No.	USN	NAME	18CS62			T1		T2		T3		ASSIGNMENT 10/10				EXTERNAL					FINAL				TOTAL AVG
			T1	T2	T3	CO1-30	CO2-30	CO3-10	CO4-10	CO1-3	CO2-2	CO3-3	CO4-2	SEE (60)	CO1-15	CO2-15	CO3-15	CO4-15	CO1-48	CO2-47	CO3-28	CO4-27			
1	1SV19CS017	BHARGAV N	12	14	27	12	14	14	13	3	2	3	2	21	5.25	5.25	5.25	5.25	20.25	21.25	22.25	20.25	21		
2	1SV20CS001	ANUSHA B S	30	30	30	30	30	15	15	3	2	3	2	49	12.25	12.25	12.25	12.25	45.25	44.25	30.25	29.25	37.25		
3	1SV20CS002	ANUSHA R	30	30	30	30	30	15	15	3	2	3	2	37	9.25	9.25	9.25	9.25	42.25	41.25	27.25	26.25	34.25		
4	1SV20CS003	ASFA KHANUM	30	30	30	30	30	15	15	3	2	3	2	53	13.25	13.25	13.25	13.25	46.25	45.25	31.25	30.25	38.25		
5	1SV20CS004	ASHA	30	30	29	30	30	15	14	3	2	3	2	48	12	12	12	12	45	44	30	28	36.75		
6	1SV20CS005	ASHWINI S	30	30	30	30	30	15	15	3	2	3	2	27	6.75	6.75	6.75	6.75	39.75	38.75	24.75	23.75	31.75		
7	1SV20CS006	BORISH KONGBRAILATPAM	29	30	29	29	30	15	14	3	2	3	2	38	9.5	9.5	9.5	9.5	41.5	41.5	27.5	25.5	34		
8	1SV20CS007	DHEERAJ KUMAR P	13	17	14	13	17	7	7	3	2	3	2	6	1.5	1.5	1.5	1.5	17.5	20.5	11.5	10.5	15		
9	1SV20CS008	DIBESH SRESTHA	26	27	30	26	27	15	15	3	2	3	2	35	8.75	8.75	8.75	8.75	37.75	37.75	26.75	25.75	32		
10	1SV20CS009	EMILY LAURA	30	30	30	30	30	15	15	3	2	3	2	39	9.75	9.75	9.75	9.75	42.75	41.75	27.75	26.75	34.75		
11	1SV20CS010	G MALINGARAYA	26	30	30	26	30	15	15	3	2	3	2	34	8.5	8.5	8.5	8.5	37.5	40.5	26.5	25.5	32.5		
12	1SV20CS011	GIRISHA V	22	30	30	22	30	15	15	3	2	3	2	30	7.5	7.5	7.5	7.5	32.5	39.5	25.5	24.5	30.5		
13	1SV20CS012	H R ABHINANDAN	30	30	29	30	30	15	14	3	2	3	2	32	8	8	8	8	41	40	26	24	32.75		
14	1SV20CS013	HABIBULLA SADIK MULLA	29	27	26	29	27	13	13	3	2	3	2	26	6.5	6.5	6.5	6.5	38.5	35.5	22.5	21.5	29.5		
15	1SV20CS014	HARSHITHA T A	30	30	30	30	30	15	15	3	2	3	2	41	10.25	10.25	10.25	10.25	43.25	42.25	28.25	27.25	35.25		
16	1SV20CS015	JAHIDUL ISLAM	29	30	29	29	30	15	14	3	2	3	2	41	10.25	10.25	10.25	10.25	42.25	42.25	28.25	26.25	34.75		
17	1SV20CS016	JAYANTH D S	26	30	21	26	30	10	11	3	2	3	2	41	10.25	10.25	10.25	10.25	39.25	42.25	23.25	23.25	32		
18	1SV20CS017	KAVYA M	25	30	30	25	30	15	15	3	2	3	2	33	8.25	8.25	8.25	8.25	36.25	40.25	26.25	25.25	32		
19	1SV20CS018	KEERTHANA KUMBAR	30	30	28	30	30	14	14	3	2	3	2	38	9.5	9.5	9.5	9.5	42.5	41.5	26.5	25.5	34		
20	1SV20CS019	M P SHISHIER	17	4	12	17	4	6	6	3	2	3	2	3	0.75	0.75	0.75	0.75	20.75	6.75	9.75	8.75	11.5		
21	1SV20CS020	MADHURA SHREE M	30	30	29	30	30	15	14	3	2	3	2	47	11.75	11.75	11.75	11.75	44.75	43.75	29.75	27.75	36.5		
22	1SV20CS021	MAJMAANJUM	30	30	30	30	30	15	15	3	2	3	2	44	11	11	11	11	44	43	29	28	36		
23	1SV20CS022	MAMATHA K	24	23	27	24	23	14	13	3	2	3	2	32	8	8	8	8	35	33	25	23	29		
24	1SV20CS023	MANOJ KUMAR PATIL	25	29	29	25	29	15	14	3	2	3	2	27	6.75	6.75	6.75	6.75	34.75	37.75	24.75	22.75	30		
25	1SV20CS024	MANTESH H RANGARADDI	30	30	30	30	30	15	15	3	2	3	2	41	10.25	10.25	10.25	10.25	43.25	42.25	28.25	27.25	35.25		
26	1SV20CS025	MOHAMMED NABIL	19	12	13	19	12	6	7	3	2	3	2	21	5.25	5.25	5.25	5.25	27.25	19.25	14.25	14.25	18.75		
27	1SV20CS026	MOHAMMED OWAIS KHAN	12	12	13	12	12	7	6	3	2	3	2	24	6	6	6	6	21	20	16	14	17.75		

Roll No.	USN	NAME	18CS62			T1	T2	T3		ASSIGNMENT 10/10				EXTERNAL					FINAL				TOTAL AVG	
			T1	T2	T3	CO1-30	CO2-30	CO3-10	CO4-10	CO1-3	CO2-2	CO3-3	CO4-2	SEE (60)	CO1-15	CO2-15	CO3-15	CO4-15	CO1-48	CO2-47	CO3-28	CO4-27		
28	1SV20CS028	MONIKA A	29	30	29	29	30	15	14	3	2	3	2	22	5.5	5.5	5.5	5.5	37.5	37.5	23.5	21.5	30	
29	1SV20CS029	MYTHRI B N	27	28	27	27	28	14	13	3	2	3	2	31	7.75	7.75	7.75	7.75	37.75	37.75	24.75	22.75	30.75	
30	1SV20CS031	NAYANA D G	30	30	30	30	30	15	15	3	2	3	2	30	7.5	7.5	7.5	7.5	40.5	39.5	25.5	24.5	32.5	
31	1SV20CS032	NETHRA PRASAD D R	29	24	20	29	24	10	10	3	2	3	2	23	5.75	5.75	5.75	5.75	37.75	31.75	18.75	17.75	26.5	
32	1SV20CS033	PARTHA H R	29	24	19	29	24	9	10	3	2	3	2	30	7.5	7.5	7.5	7.5	39.5	33.5	19.5	19.5	28	
33	1SV20CS034	PUSHPRAJ	30	30	30	30	30	15	15	3	2	3	2	33	8.25	8.25	8.25	8.25	41.25	40.25	26.25	25.25	33.25	
34	1SV20CS035	RAHUL AJITH KUMBAR	28	30	30	28	30	15	15	3	2	3	2	35	8.75	8.75	8.75	8.75	39.75	40.75	26.75	25.75	33.25	
35	1SV20CS036	ROUSHANI BEGUM	30	30	30	30	30	15	15	3	2	3	2	30	7.5	7.5	7.5	7.5	40.5	39.5	25.5	24.5	32.5	
36	1SV20CS037	SADASHISH KUMAR	24	30	30	24	30	15	15	3	2	3	2	38	9.5	9.5	9.5	9.5	36.5	41.5	27.5	26.5	33	
37	1SV20CS038	SAGAR S K	12	24	21	12	24	10	11	3	2	3	2	30	7.5	7.5	7.5	7.5	22.5	33.5	20.5	20.5	24.25	
38	1SV20CS039	SANIYA SARDAR	30	30	29	30	30	14	15	3	2	3	2	38	9.5	9.5	9.5	9.5	42.5	41.5	26.5	26.5	34.25	
39	1SV20CS040	SEKH FARDEEN	0	26	29	0	26	15	14	3	2	3	2	36	9	9	9	9	12	37	27	25	25.25	
40	1SV20CS041	SHAIK RABBANI	12	19	15	12	19	8	7	3	2	3	2	39	9.75	9.75	9.75	9.75	24.75	30.75	20.75	18.75	23.75	
41	1SV20CS042	SHARIBA FIRDOSE	30	30	30	30	30	15	15	3	2	3	2	27	6.75	6.75	6.75	6.75	39.75	38.75	24.75	23.75	31.75	
42	1SV20CS045	SHRAVANAKUMARA T	30	30	30	30	30	15	15	3	2	3	2	23	5.75	5.75	5.75	5.75	38.75	37.75	23.75	22.75	30.75	
43	1SV20CS046	SIDHANT PANDIT	14	0	15	14	0	7	8	3	2	3	2	30	7.5	7.5	7.5	7.5	24.5	9.5	17.5	17.5	17.25	
44	1SV20CS047	SMRITI DEWANGAN	22	30	30	22	30	15	15	3	2	3	2	31	7.75	7.75	7.75	7.75	32.75	39.75	25.75	24.75	30.75	
45	1SV20CS048	SOUVIK KARAK	17	15	26	17	15	13	13	3	2	3	2	33	8.25	8.25	8.25	8.25	28.25	25.25	24.25	23.25	25.25	
46	1SV20CS049	SRIKIRAN B	29	27	27	29	27	14	13	3	2	3	2	38	9.5	9.5	9.5	9.5	41.5	38.5	26.5	24.5	32.75	
47	1SV20CS050	SUSHMITHA K	23	30	30	23	30	15	15	3	2	3	2	44	11	11	11	11	37	43	29	28	34.25	
48	1SV20CS051	TEJASHWINI R	30	30	30	30	30	15	15	3	2	3	2	30	7.5	7.5	7.5	7.5	40.5	39.5	25.5	24.5	32.5	
49	1SV20CS052	TEJESHWAR T R	29	15	24	29	15	12	12	3	2	3	2	11	2.75	2.75	2.75	2.75	34.75	19.75	17.75	16.75	22.25	
50	1SV20CS053	USHA B N	22	30	30	22	30	15	15	3	2	3	2	51	12.75	12.75	12.75	12.75	37.75	44.75	30.75	29.75	35.75	
51	1SV20CS054	VAISHNAVI BHUSHAN	30	30	30	30	30	15	15	3	2	3	2	43	10.75	10.75	10.75	10.75	43.75	42.75	28.75	27.75	35.75	
52	1SV20CS055	VARSHITHA T N	25	30	30	25	30	15	15	3	2	3	2	44	11	11	11	11	39	43	29	28	34.75	
53	1SV20CS056	VENKATESH DALAWAI	24	30	30	24	30	15	15	3	2	3	2	41	10.25	10.25	10.25	10.25	37.25	42.25	28.25	27.25	33.75	
																			36.42	36.51	24.78	23.63		
																			75.9%	77.7%	88.5%	87.5%		

STAFF SIGNATURE

HOD,CSE

HOD,
COMPUTER SCIENCE & ENGG
SIET, TUMAKURU-06.

PRINCIPAL
SIET, TUMKUR.



Department of Computer Science and Engineering

COURSE OUTCOME

- CO1.** Adapt HTML and CSS syntax and semantics to build web pages.
- CO2.** Construct and visually format tables and forms using HTML and CSS
- CO3.** Develop Client-Side Scripts using JavaScript and Server-Side Scripts using PHP to generate and display the contents dynamically.
- CO4.** Appraise the principles of object oriented development using PHP
- CO5.** Inspect JavaScript frameworks like jQuery and Backbone which facilitates developer to focus on core features

PROGRAM OUTCOMES

- P01** Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
- P02** Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- P03** Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.
- P04** 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.
- P05** Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.
- P06** The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.
- P07** 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.
- P08** Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- P09** Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- P010** Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.
- P011** 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.
- P012** 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	Dr. Manjula T														
BRANCH	CSE			ACADEMIC YEAR				2022-23							
COURSE	B.E	SEMESTER			VI	SECTION									
SUBJECT	WEB TECHNOLOGY AND ITS APPLICATIONS						SUBJECT CODE			18CS63					
CO & PO MAPPING															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1		2									2	2	1	2
CO2	1		2									2	2	1	2
CO3	1		2									2	2	1	2
CO4	1		2									2	2	1	2
CO5	1		2									2	2	1	2
AVERAGE	1		2									2	2	1	2
OVERALL MAPPING OF SUBJECT												1.66			

CO - PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	51.3	0.51		1.02									1.02	1.02	0.51	1.02
CO2	61.6	0.61		1.23									1.23	1.23	0.61	1.23
CO3	60.4	0.60		1.20									1.20	1.20	0.60	1.20
CO4	62.9	0.62		1.25									1.25	1.25	0.62	1.25
CO5	63.0	0.63		1.26									1.26	1.26	0.63	1.26
AVERAGE		0.59		1.19									1.19	1.19	0.59	1.19
FINAL ATTAINMENT LEVEL													0.99			

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

SUB: Web Technology and its applications			Sem: VI		2022-23		EVEN					FACULTY: Dr.Manjula T															
Roll No.	USN	Name	18CS63			T1	T2		T3		ASSIGNMENT 10/10					EXTERNAL					Final					TOTAL AVG	
			T1	T2	T3	CO1-30	CO2-15	CO3-15	CO4-15	CO5-15	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	SEE (60)	CO1-12	CO2-12	CO3-12	CO4-12	CO5-12	CO1-44	CO2-29	CO3-29	CO4-29		CO5-29
1	1SV19CS017	BHARGAV N	20	0	10	20	0	0	5	5	2	2	2	2	2	14	3	3	3	3	3	25	5	5	10	10	10.8
2	1SV20CS001	ANUSHA B S	20	20	20	20	10	10	10	10	2	2	2	2	2	44	9	9	9	9	9	31	21	21	21	21	22.8
3	1SV20CS002	ANUSHA R	20	20	20	20	10	10	10	10	2	2	2	2	2	42	8	8	8	8	8	30	20	20	20	20	22.4
4	1SV20CS003	ASFA KHANUM	17	20	20	17	10	10	10	10	2	2	2	2	2	54	11	11	11	11	11	30	23	23	23	23	24.2
5	1SV20CS004	ASHA	17	20	20	17	10	10	10	10	2	2	2	2	2	45	9	9	9	9	9	28	21	21	21	21	22.4
6	1SV20CS005	ASHWINI S	15	15	20	15	8	7	10	10	2	2	2	2	2	36	7	7	7	7	7	24	17	16	19	19	19.2
7	1SV20CS006	BORISH KONGBRAILATPAM	0	20	10	0	10	10	5	5	2	2	2	2	2	46	9	9	9	9	9	11	21	21	16	16	17.2
8	1SV20CS007	DHEERAJ KUMAR P	17	18	20	17	9	9	10	10	2	2	2	2	2	21	4	4	4	4	4	23	15	15	16	16	17.2
9	1SV20CS008	DIBESH SRESTHA	19	20	20	19	10	10	10	10	2	2	2	2	2	42	8	8	8	8	8	29	20	20	20	20	22.2
10	1SV20CS009	EMILY LAURA	18	20	18	18	10	10	9	9	2	2	2	2	2	47	9	9	9	9	9	29	21	21	20	20	22.6
11	1SV20CS010	G MALINGARAYA	10	14	20	10	7	7	10	10	2	2	2	2	2	45	9	9	9	9	9	21	18	18	21	21	19.8
12	1SV20CS011	GIRISHA V	14	19	20	14	9	10	10	10	2	2	2	2	2	33	7	7	7	7	7	23	18	19	19	19	19.2
13	1SV20CS012	H R ABHINANDAN	17	20	20	17	10	10	10	10	2	2	2	2	2	33	7	7	7	7	7	26	19	19	19	19	20.0
14	1SV20CS013	HABIBULLA SADIK MULLA	19	20	20	19	10	10	10	10	2	2	2	2	2	47	9	9	9	9	9	30	21	21	21	21	23.2
15	1SV20CS014	HARSHITHA T A	17	20	20	17	10	10	10	10	2	2	2	2	2	44	9	9	9	9	9	28	21	21	21	21	22.2
16	1SV20CS015	JAHDUL ISLAM	18	20	20	18	10	10	10	10	2	2	2	2	2	36	7	7	7	7	7	27	19	19	19	19	20.8
17	1SV20CS016	JAYANTH D S	17	20	20	17	10	10	10	10	2	2	2	2	2	25	5	5	5	5	5	24	17	17	17	17	18.4
18	1SV20CS017	KAVYA M	18	20	20	18	10	10	10	10	2	2	2	2	2	36	7	7	7	7	7	27	19	19	19	19	20.8
19	1SV20CS018	KEERTHANA KUMBAR	17	20	20	17	10	10	10	10	2	2	2	2	2	39	8	8	8	8	8	27	20	20	20	20	21.2
20	1SV20CS019	M P SHISHIER	0	6	10	0	3	3	5	5	2	2	2	2	2	2	0	0	0	0	0	2	5	5	7	7	5.6
21	1SV20CS020	MADHURA SHREE M	12	20	20	12	10	10	10	10	2	2	2	2	2	32	6	6	6	6	6	20	18	18	18	18	18.8
22	1SV20CS021	MAJMAANJUM	17	20	20	17	10	10	10	10	2	2	2	2	2	34	7	7	7	7	7	26	19	19	19	19	20.2
23	1SV20CS022	MAMATHA K	20	20	10	20	10	10	5	5	2	2	2	2	2	6	1	1	1	1	1	23	13	13	8	8	13.2
24	1SV20CS023	MANOJ KUMAR PATIL	0	10	20	0	5	5	10	10	2	2	2	2	2	43	9	9	9	9	9	11	16	16	21	21	16.6
25	1SV20CS024	MANESH H RANGARADDI	15	20	16	15	10	10	8	8	2	2	2	2	2	37	7	7	7	7	7	24	19	19	17	17	19.6
26	1SV20CS025	MOHAMMED NABIL	0	17	20	0	10	7	10	10	2	2	2	2	2	27	5	5	5	5	5	7	17	14	17	17	14.8
27	1SV20CS026	MOHAMMED OWAIS KHAN	0	20	10	0	10	10	5	5	2	2	2	2	2	10	2	2	2	2	2	4	14	14	9	9	10.0
28	1SV20CS028	MONIKA A	13	12	20	13	6	6	10	10	2	2	2	2	2	26	5	5	5	5	5	20	13	13	17	17	16.2
29	1SV20CS029	MYTHRI B N	11	17	20	11	10	7	10	10	2	2	2	2	2	28	6	6	6	6	6	19	18	15	18	18	17.2
30	1SV20CS031	NAYANA D G	12	20	20	12	10	10	10	10	2	2	2	2	2	30	6	6	6	6	6	20	18	18	18	18	18.4

Roll No.	USN	Name	18CS63			T1	T2		T3		ASSIGNMENT 10/10					EXTERNAL					Final					TOTAL AVG				
			T1	T2	T3	CO1-30	CO2-15	CO3-15	CO4-15	CO5-15	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	SEE (60)	CO1-12	CO2-12	CO3-12	CO4-12	CO5-12	CO1-44	CO2-29	CO3-29	CO4-29		CO5-29			
31	1SV20CS032	NETHRA PRASAD D R	9	17	20	9	10	7	10	10	2	2	2	2	2	33	7	7	7	7	7	18	19	16	19	19	17.8			
32	1SV20CS033	PARTHA H R	12	17	20	12	10	7	10	10	2	2	2	2	2	38	8	8	8	8	8	22	20	17	20	20	19.4			
33	1SV20CS034	PUSHPRAJ	20	20	20	20	10	10	10	10	2	2	2	2	2	39	8	8	8	8	8	30	20	20	20	20	21.8			
34	1SV20CS035	RAHUL AJITH KUMBAR	18	20	20	18	10	10	10	10	2	2	2	2	2	48	10	10	10	10	10	30	22	22	22	22	23.2			
35	1SV20CS036	ROUSHANI BEGUM	13	20	20	13	10	10	10	10	2	2	2	2	2	27	5	5	5	5	5	20	17	17	17	17	18.0			
36	1SV20CS037	SADASHISH KUMAR BUCKTA	19	20	20	19	10	10	10	10	2	2	2	2	2	36	7	7	7	7	7	28	19	19	19	19	21.0			
37	1SV20CS038	SAGAR S K	0	20	20	0	10	10	10	10	2	2	2	2	2	3	1	1	1	1	1	3	13	13	13	13	10.6			
38	1SV20CS039	SANIYA SARDAR	14	20	20	14	10	10	10	10	2	2	2	2	2	38	8	8	8	8	8	24	20	20	20	20	20.4			
39	1SV20CS040	SEKH FARDEEN	0	20	20	0	10	10	10	10	2	2	2	2	2	48	10	10	10	10	10	12	22	22	22	22	19.6			
40	1SV20CS041	SHAIK RABBANI	8	12	15	8	6	6	7	8	2	2	2	2	2	21	4	4	4	4	4	14	12	12	13	14	13.2			
41	1SV20CS042	SHARIBA FIRDOSE	16	19	20	16	10	9	10	10	2	2	2	2	2	16	3	3	3	3	3	21	15	14	15	15	16.2			
42	1SV20CS045	SHRAVANAKUMARA T	18	20	20	18	10	10	10	10	2	2	2	2	2	40	8	8	8	8	8	28	20	20	20	20	21.6			
43	1SV20CS046	SIDHANT PANDIT	12	0	20	12	0	0	10	10	2	2	2	2	2	23	5	5	5	5	5	19	7	7	17	17	13.0			
44	1SV20CS047	SMRITI DEWANGAN	19	20	20	19	10	10	10	10	2	2	2	2	2	26	5	5	5	5	5	26	17	17	17	17	19.0			
45	1SV20CS048	SOUVIK KARAK	11	15	20	11	8	7	10	10	2	2	2	2	2	42	8	8	8	8	8	21	18	17	20	20	19.6			
46	1SV20CS049	SRIKIRAN B	1	15	20	1	8	7	10	10	2	2	2	2	2	21	4	4	4	4	4	7	14	13	16	16	13.4			
47	1SV20CS050	SUSHMITHA K	20	20	20	20	10	10	10	10	2	2	2	2	2	50	10	10	10	10	10	32	22	22	22	22	24.0			
48	1SV20CS051	TEJASHWINI R	20	20	20	20	10	10	10	10	2	2	2	2	2	48	10	10	10	10	10	32	22	22	22	22	23.6			
49	1SV20CS052	TEJESHWAR T R	10	17	20	10	10	7	10	10	2	2	2	2	2	33	7	7	7	7	7	19	19	16	19	19	18.0			
50	1SV20CS053	USHA B N	20	20	20	20	10	10	10	10	2	2	2	2	2	42	8	8	8	8	8	30	20	20	20	20	22.4			
51	1SV20CS054	VAISHNAVI BHUSHAN	20	20	20	20	10	10	10	10	2	2	2	2	2	51	10	10	10	10	10	32	22	22	22	22	24.2			
52	1SV20CS055	VARSHITHA T N	18	20	20	18	10	10	10	10	2	2	2	2	2	33	7	7	7	7	7	27	19	19	19	19	20.2			
53	1SV20CS056	VENKATESH DALAWAI	20	20	20	20	10	10	10	10	2	2	2	2	2	50	10	10	10	10	10	32	22	22	22	22	24.0			
																					22.6	17.9	17.5	18.2	18.3					
																					51.3%	61.6%	60.4%	62.9%	63.0%					

Manjula T
Staff Signature

[Signature]
HOD, CSE

HOD,
COMPUTER SCIENCE & ENGG.
SLET, TUMAKURU-08.

Manjula Hemraj
PRINCIPAL
SLET, TUMKUR.



SHRIDEVI
EDUCATION

Sri Shridevi Charitable Trust (R.)
SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY
Sira Road, Tumkur - 572 106, Karnataka, India.
Phone: 0816 - 2212629 | Principal: 0816 - 2212627, 9686114899 | Telefax: 0816 - 2212628
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)

ESTD: 2002



Department of Computer Science and Engineering

COURSE OUTCOME

- C01.** Describe the concepts involved in Object-Oriented modelling and their benefits.
- C02.** Demonstrate concept of use-case model, sequence model and state chart model for a given problem.
- C03.** Explain the facets of the unified process approach to design and build a Software system.
- C04.** Translate the requirements into implementation for Object Oriented design.
- C05.** Choose an appropriate design pattern to facilitate development procedure.

PROGRAM OUTCOMES:

- P01** Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
- P02** Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- P03** Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.
- P04** 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.
- P05** Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.
- P06** The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.
- P07** 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.
- P08** Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- P09** Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- P010** Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.
- P011** 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.
- P012** Life long learning: A recognition of the need for, and an ability to engage in, continuous learning.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY														
FACULTY NAME	MR. VENUGOPAL D														
BRANCH	CSE			ACADEMIC YEAR				2022-23							
COURSE	B.E	SEMESTER			VI	SECTION									
SUBJECT	OBJECT ORIENTED MODELING AND DESIGN						SUBJECT CODE			18CS642					
CO & PO MAPPING															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1		2									2	2	1	2
CO2	1		2									2	2	1	2
CO3	1		2									2	2	1	2
CO4	1		2									2	2	1	2
CO5	1		2									2	2	1	2
AVERAGE	1		2									2	2	1	2
OVERALL MAPPING OF SUBJECT												1.66			

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	71.3	0.71		1.42									1.42	1.42	0.71	1.42
CO2	74.3	0.74		1.48									1.48	1.48	0.74	1.48
CO3	73.2	0.73		1.46									1.46	1.46	0.73	1.46
CO4	77.6	0.77		1.55									1.55	1.55	0.77	1.55
CO5	74.8	0.74		1.49									1.49	1.49	0.74	1.49
AVERAGE	0.73			1.48									1.48	1.48	0.73	1.48
FINAL ATTAINMENT LEVEL													1.23			

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

SUB: Object Oriented Modelling and Design			Sem:VI					2022-23					EVEN					FACULTY: Mr.Venugopal D										TOTAL AVG
Roll No.	USN	Name	18CS642			T1		T2		T3			ASSIGNMENT 10/10					EXTERNAL					Final					
			T1	T2	T3	CO1-30	CO2-15	CO3-15	CO4-15	CO5-15	CO1	CO2	CO3	CO4	CO5	SE E(6)	CO1-12	CO2-12	CO3-12	CO4-12	CO5-12	CO1-42	CO2-29	CO3-29	CO4-29	CO5-29		
1	ISV19CS017	BHARGAV N	21	20	21	21	10	10	10	11	2	2	2	2	2	0	0	0	0	0	23	12	12	12	13	14		
2	ISV20CS001	ANUSHA B S	29	30	30	29	15	15	15	15	2	2	2	2	2	44	9	9	9	9	9	40	26	26	26	26	29	
3	ISV20CS002	ANUSHA R	30	30	30	30	15	15	15	15	2	2	2	2	2	39	8	8	8	8	8	40	25	25	25	25	28	
4	ISV20CS003	ASFA KHANUM	27	30	28	27	15	15	14	14	2	2	2	2	2	41	8	8	8	8	8	37	25	25	24	24	27	
5	ISV20CS004	ASHA	29	30	30	29	15	15	15	15	2	2	2	2	2	38	8	8	8	8	8	39	25	25	25	25	27	
6	ISV20CS005	ASHWINI S	28	30	30	28	15	15	15	15	2	2	2	2	2	48	10	10	10	10	10	40	27	27	27	27	29	
7	ISV20CS006	BORISH KONGBRILATPAM	23	29	27	23	14	15	14	13	2	2	2	2	2	48	10	10	10	10	10	35	26	27	26	25	27	
8	ISV20CS007	DHEERAJ KUMAR P	14	8	18	14	0	8	10	8	2	2	2	2	2	15	3	3	3	3	3	19	5	13	15	13	13	
9	ISV20CS008	DIBESH SRESTHA	11	26	30	11	14	12	15	15	2	2	2	2	2	32	6	6	6	6	6	19	22	20	23	23	22	
10	ISV20CS009	EMILY LAURA	30	30	30	30	15	15	15	15	2	2	2	2	2	43	9	9	9	9	9	41	26	26	26	26	29	
11	ISV20CS010	G MALINGARAYA	24	28	26	24	14	14	13	13	2	2	2	2	2	32	6	6	6	6	6	32	22	22	21	21	24	
12	ISV20CS011	GIRISHA V	20	23	27	20	11	12	14	13	2	2	2	2	2	34	7	7	7	7	7	29	20	21	23	22	23	
13	ISV20CS012	H R ABHINANDAN	18	26	27	18	13	13	13	14	2	2	2	2	2	26	5	5	5	5	5	25	20	20	20	21	21	
14	ISV20CS013	HABIBULLA SADIK MULLA	19	26	17	19	13	13	10	7	2	2	2	2	2	30	6	6	6	6	6	27	21	21	18	15	20	
15	ISV20CS014	HARSHITHA T A	29	30	30	29	15	15	15	15	2	2	2	2	2	51	10	10	10	10	10	41	27	27	27	27	30	
16	ISV20CS015	JAHDUL ISLAM	22	30	30	22	15	15	15	15	2	2	2	2	2	44	9	9	9	9	9	33	26	26	26	26	27	
17	ISV20CS016	JAYANTH D S	17	26	26	17	13	13	13	13	2	2	2	2	2	39	8	8	8	8	8	27	23	23	23	23	24	
18	ISV20CS017	KAVYA M	30	29	30	30	15	14	15	15	2	2	2	2	2	44	9	9	9	9	9	41	26	25	26	26	29	
19	ISV20CS018	KEERTHANA KUMBAR	24	29	30	24	14	15	15	15	2	2	2	2	2	44	9	9	9	9	9	35	25	26	26	26	27	
20	ISV20CS019	M P SHISHIER	4	9	6	4	9	0	6	0	2	2	2	2	2	33	7	7	7	7	7	13	18	9	15	9	12	
21	ISV20CS020	MADHURA SHREE M	27	30	30	27	15	15	15	15	2	2	2	2	2	15	3	3	3	3	3	32	20	20	20	20	22	
22	ISV20CS021	MAJMAANJUM	29	29	30	29	15	14	15	15	2	2	2	2	2	30	6	6	6	6	6	37	23	22	23	23	26	
23	ISV20CS022	MAMATHA K	20	13	26	20	5	8	12	14	2	2	2	2	2	47	9	9	9	9	9	31	16	19	23	25	23	
24	ISV20CS023	MANOJ KUMAR PATIL	14	25	26	14	12	13	13	13	2	2	2	2	2	36	7	7	7	7	7	23	21	22	22	22	22	
25	ISV20CS024	MANTESH H RANGARADDI	20	29	30	20	15	14	15	15	2	2	2	2	2	41	8	8	8	8	8	30	25	24	25	25	26	
26	ISV20CS025	MOHAMMED NABIL	9	9	16	9	9	0	7	9	2	2	2	2	2	33	7	7	7	7	7	18	18	9	16	18	15	
27	ISV20CS026	MOHAMMED OWAIS KHAN	4	8	16	4	8	0	8	8	2	2	2	2	2	25	5	5	5	5	5	11	15	7	15	15	13	
28	ISV20CS028	MONIKA A	22	26	30	22	13	13	15	15	2	2	2	2	2	35	7	7	7	7	7	31	22	22	24	24	25	
29	ISV20CS029	MYTHRI B N	26	30	30	26	15	15	15	15	2	2	2	2	2	35	7	7	7	7	7	35	24	24	24	24	26	
30	ISV20CS031	NAYANA D G	29	30	30	29	15	15	15	15	2	2	2	2	2	31	6	6	6	6	6	37	23	23	23	23	26	
31	ISV20CS032	NETHRA PRASAD D R	13	18	20	13	12	6	14	6	2	2	2	2	2	25	5	5	5	5	5	20	19	13	21	13	17	
32	ISV20CS033	PARTHA H R	13	20	23	13	13	7	15	8	2	2	2	2	2	26	5	5	5	5	5	20	20	14	22	15	18	
33	ISV20CS034	PUSHRAJ	26	30	30	26	15	15	15	15	2	2	2	2	2	35	7	7	7	7	7	35	24	24	24	24	26	
34	ISV20CS035	RAHUL AJITH KUMBAR	26	29	30	26	14	15	15	15	2	2	2	2	2	44	9	9	9	9	9	37	25	26	26	26	28	

Roll No.	USN	Name	18CS642			T1		T2		T3		ASSIGNMENT 10/10					EXTERNAL					Final					TOTAL AVG			
			T1	T2	T3	CO1-30	CO2-15	CO3-15	CO4-15	CO5-15	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	SE E(6)	CO1-12	CO2-12	CO3-12	CO4-12	CO5-12	CO1-42	CO2-29	CO3-29	CO4-29	CO5-29				
35	1SV20CS036	ROUSHANI BEGUM	26	30	30	26	15	15	15	15	2	2	2	2	2	30	6	6	6	6	6	34	23	23	23	23	25			
36	1SV20CS037	SADASHISH KUMAR	3	30	30	3	15	15	15	15	2	2	2	2	2	48	10	10	10	10	10	15	27	27	27	27	24			
37	1SV20CS038	SAGAR S K	29	24	22	29	12	12	11	11	2	2	2	2	2	23	5	5	5	5	5	36	19	19	18	18	22			
38	1SV20CS039	SANIYA SARDAR	3	29	30	3	15	14	15	15	2	2	2	2	2	42	8	8	8	8	8	13	25	24	25	25	23			
39	1SV20CS040	SEKH FARDEEN	29	28	26	29	14	14	13	13	2	2	2	2	2	29	6	6	6	6	6	37	22	22	21	21	24			
40	1SV20CS041	SHAIK RABBANI	17	14	20	17	0	14	7	13	2	2	2	2	2	31	6	6	6	6	6	25	8	22	15	21	18			
41	1SV20CS042	SHARIBA FIRDOSE	14	30	30	14	15	15	15	15	2	2	2	2	2	44	9	9	9	9	9	25	26	26	26	26	26			
42	1SV20CS045	SHRAVANAKUMARA T	28	30	30	28	15	15	15	15	2	2	2	2	2	35	7	7	7	7	7	37	24	24	24	24	27			
43	1SV20CS046	SIDHANT PANDIT	26	0	23	26	0	0	13	10	2	2	2	2	2	21	4	4	4	4	4	32	6	6	19	16	16			
44	1SV20CS047	SMRITI DEWANGAN	12	30	30	12	15	15	15	15	2	2	2	2	2	35	7	7	7	7	7	21	24	24	24	24	23			
45	1SV20CS048	SOUVIK KARAK	27	25	14	27	12	13	14	0	2	2	2	2	2	26	5	5	5	5	5	34	19	20	21	7	20			
46	1SV20CS049	SRIKIRAN B	15	25	23	15	15	10	12	11	2	2	2	2	2	35	7	7	7	7	7	24	24	19	21	20	22			
47	1SV20CS050	SUSHMITHA K	6	28	30	6	14	14	15	15	2	2	2	2	2	33	7	7	7	7	7	15	23	23	24	24	21			
48	1SV20CS051	TEJASHWINI R	26	30	30	26	15	15	15	15	2	2	2	2	2	45	9	9	9	9	9	37	26	26	26	26	28			
49	1SV20CS052	TEJESHWAR T R	26	0	16	26	0	0	12	4	2	2	2	2	2	23	5	5	5	5	5	33	7	7	19	11	15			
50	1SV20CS053	USHA B N	17	30	30	17	15	15	15	15	2	2	2	2	2	38	8	8	8	8	8	27	25	25	25	25	25			
51	1SV20CS054	VAISHNAVI BHUSHAN	28	30	30	28	15	15	15	15	2	2	2	2	2	42	8	8	8	8	8	38	25	25	25	25	28			
52	1SV20CS055	VARSHITHA T N	27	30	30	27	15	15	15	15	2	2	2	2	2	39	8	8	8	8	8	37	25	25	25	25	27			
53	1SV20CS056	VENKATESH DALAWAI	26	30	30	26	15	15	15	15	2	2	2	2	2	40	8	8	8	8	8	36	25	25	25	25	27			
																					29.9	21.6	21.2	22.5	21.7					
																					71.3%	74.3%	73.2%	77.6%	74.8%					

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Bas
H O D,
COMPUTER SCIENCE & ENGG.,
SIET, TUMAKURU-08.

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PRINCIPAL
SIET, TUMKUR.

Department of Computer Science and Engineering

COURSE OUTCOME

- CO1.** Interpret the impact and challenges posed by IoT networks leading to new architectural models.
- CO2.** Compare and contrast the development of smart objects and the technologies to connect them to network.
- CO3.** Appraise the role of IoT protocols for efficient network communication.
- CO4.** Elaborate the need for Data Analytics and Security in IoT.
- CO5.** Illustrate different sensor technologies for sensing real world entities, and identify the applications of IoT in Industry.

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	Dr. MANJULA T														
BRANCH	CSE			ACADEMIC YEAR				2022-23							
COURSE	B.E	SEMESTER		VIII		SECTION			A						
SUBJECT	INTERNET OF THINGS					SUBJECT CODE			18CS81						
CO & PO MAPPING															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3												1		
CO2	2	2											2		
CO3	2	2											1		
CO4		1				2							1		
CO5	2	2											2	1	
AVERAGE	2.25	1.75				2							1.4	1	
OVERALL MAPPING OF SUBJECT												1.68			

CO - PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	68.2	2.04												0.68		
CO2	74.6	1.49	1.49											1.49		
CO3	72.7	1.45	1.45											0.72		
CO4	78.7		0.78				1.57							0.78		
CO5	77.8	1.22	1.55											1.55	0.77	
AVERAGE		1.55	1.31				1.57							1.04	0.77	
FINAL ATTAINMENT LEVEL													1.24			

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

SUB:Internet of Things			SEM:VIII			SEC: 'A'					2022-23		EVEN					FACULTY:Dr.Manjula T					TOTAL AVG				
Roll No.	USN	NAME	18CS81			T1	T2			T3		Report - 20					EXTERNAL					Final					
			T1	T2	T3	CO1-20	CO2-10	CO3-10	CO4-10	CO5-10	CO1-4	CO2-4	CO3-4	CO4-4	CO5-4	SEE (60)	CO1-12	CO2-12	CO3-12	CO4-12	CO5-12	CO1-36		CO2-26	CO3-26	CO4-26	CO5-26
1	ISV19CS001	AFREEN AFSHAN	11	15	19	11	7	8	10	9	4	4	4	4	4	42	8.4	8.4	8.4	8.4	8.4	23.4	19.4	20.4	22.4	21.4	21.4
2	ISV19CS003	AKASH KUMAR SINGH	18	18	20	18	10	8	10	10	4	4	4	4	4	45	9	9	9	9	9	31	23	21	23	23	24.2
3	ISV19CS005	AKSHATHA M	15	15	20	15	7	8	10	10	4	4	4	4	4	22	4.4	4.4	4.4	4.4	4.4	23.4	15.4	16.4	18.4	18.4	18.4
4	ISV19CS006	AMRIT GYAWALI	16	19	20	16	10	9	10	10	4	4	4	4	4	38	7.6	7.6	7.6	7.6	7.6	27.6	21.6	20.6	21.6	21.6	22.6
5	ISV19CS007	ANKITHA K	18	20	20	18	10	10	10	10	4	4	4	4	4	37	7.4	7.4	7.4	7.4	7.4	29.4	21.4	21.4	21.4	21.4	23
6	ISV19CS008	ANUSHA B	12	17	17	12	10	7	10	7	4	4	4	4	4	42	8.4	8.4	8.4	8.4	8.4	24.4	22.4	19.4	22.4	19.4	21.6
7	ISV19CS009	ARBIN TAJ	10	10	10	10	5	5	5	5	3	3	3	4	4	9	1.8	1.8	1.8	1.8	1.8	14.8	9.8	9.8	10.8	10.8	11.2
8	ISV19CS011	ASHRITH P	5	14	20	5	7	7	10	10	4	4	4	4	4	38	7.6	7.6	7.6	7.6	7.6	16.6	18.6	18.6	21.6	21.6	19.4
9	ISV19CS013	AYESHA SALEEM	17	20	20	17	10	10	10	10	4	4	4	4	4	45	9	9	9	9	9	30	23	23	23	23	24.4
10	ISV19CS014	BHAGYASHREE	3	17	15	3	10	7	8	7	3	3	3	3	3	6	1.2	1.2	1.2	1.2	1.2	7.2	14.2	11.2	12.2	11.2	11.2
11	ISV19CS015	BHAGYASHREE G	20	20	20	20	10	10	10	10	4	4	4	4	4	36	7.2	7.2	7.2	7.2	7.2	31.2	21.2	21.2	21.2	21.2	23.2
12	ISV19CS016	BHARATHI H	20	20	20	20	10	10	10	10	4	4	4	4	4	38	7.6	7.6	7.6	7.6	7.6	31.6	21.6	21.6	21.6	21.6	23.6
13	ISV19CS018	BHAVANA C	17	20	20	17	10	10	10	10	4	4	4	4	4	54	10.8	10.8	10.8	10.8	10.8	31.8	24.8	24.8	24.8	24.8	26.2
14	ISV19CS019	BHOJANNA AJAY	10	10	15	10	5	5	7	8	4	4	4	4	4	35	7	7	7	7	7	21	16	16	18	19	18
15	ISV19CS020	BHOOMIKA J N	8	12	18	8	6	6	10	8	4	4	4	4	4	35	7	7	7	7	7	19	17	17	21	19	18.6
16	ISV19CS021	BHUVANESHWARI	17	16	20	17	10	6	10	10	4	4	4	4	4	32	6.4	6.4	6.4	6.4	6.4	27.4	20.4	16.4	20.4	20.4	21
17	ISV19CS022	BHUVANESHWARI A	15	16	20	15	8	8	10	10	4	4	4	4	4	33	6.6	6.6	6.6	6.6	6.6	25.6	18.6	18.6	20.6	20.6	20.8
18	ISV19CS023	CHE THAN V	19	20	20	19	10	10	10	10	4	4	4	4	4	33	6.6	6.6	6.6	6.6	6.6	29.6	20.6	20.6	20.6	20.6	22.4
19	ISV19CS025	DEEKSHA K	15	16	10	15	10	6	5	5	4	4	4	4	4	0	0	0	0	0	19	14	10	9	9	12.2	
20	ISV19CS027	DISHAN M	18	18	20	18	10	8	10	10	4	4	4	4	4	43	8.6	8.6	8.6	8.6	8.6	30.6	22.6	20.6	22.6	22.6	23.8
21	ISV19CS028	DULARCHAND KALWAR	13	9	15	13	4	5	8	7	3	3	4	4	4	35	7	7	7	7	7	23	14	16	19	18	18
22	ISV19CS029	ESRA BANU	16	14	20	16	7	7	10	10	4	4	4	4	4	39	7.8	7.8	7.8	7.8	7.8	27.8	18.8	18.8	21.8	21.8	21.8
23	ISV19CS030	GAYITHRIDEVI K M	19	15	20	19	8	7	10	10	4	4	4	4	4	30	6	6	6	6	6	29	18	17	20	20	20.8
24	ISV19CS031	GOUDAR ROHIT RENU	0	14	20	0	7	7	10	10	4	4	4	4	4	26	5.2	5.2	5.2	5.2	5.2	9.2	16.2	16.2	19.2	19.2	16
25	ISV19CS032	H BARKATHULLA	14	15	20	14	8	7	10	10	4	4	4	4	4	26	5.2	5.2	5.2	5.2	5.2	23.2	17.2	16.2	19.2	19.2	19
26	ISV19CS033	HARISHA M R	20	20	20	20	10	10	10	10	4	4	4	4	4	39	7.8	7.8	7.8	7.8	7.8	31.8	21.8	21.8	21.8	21.8	23.8
27	ISV19CS034	HARSHITHA C	20	20	20	20	10	10	10	10	4	4	4	4	4	53	10.6	10.6	10.6	10.6	10.6	34.6	24.6	24.6	24.6	24.6	26.6
28	ISV19CS035	HEMANTH K R	20	17	20	20	10	7	10	10	4	4	4	4	4	41	8.2	8.2	8.2	8.2	8.2	32.2	22.2	19.2	22.2	22.2	23.6
29	ISV19CS036	J N SHREYAS	0	15	20	0	7	8	10	10	3	3	3	3	3	32	6.4	6.4	6.4	6.4	6.4	9.4	16.4	17.4	19.4	19.4	16.4
30	ISV19CS037	JYOTI MOHAN MADIWALAR	14	15	19	14	8	7	9	10	4	4	4	4	4	24	4.8	4.8	4.8	4.8	4.8	22.8	16.8	15.8	17.8	18.8	18.4
31	ISV19CS038	KALPANA M N	15	20	20	15	10	10	10	10	4	4	4	4	4	42	8.4	8.4	8.4	8.4	8.4	27.4	22.4	22.4	22.4	22.4	23.4
32	ISV19CS040	LAVANYA T S	16	20	20	16	10	10	10	10	4	4	4	4	4	44	8.8	8.8	8.8	8.8	8.8	28.8	22.8	22.8	22.8	22.8	24
33	ISV19CS041	MADHAVA REDDY M	0	16	19	0	8	8	10	9	4	4	4	4	4	39	7.8	7.8	7.8	7.8	7.8	11.8	19.8	19.8	21.8	20.8	18.8

34	ISV19CS042	MAHALAKSHMI H	15	11	20	15	5	6	10	10	4	4	4	4	4	41	8.2	8.2	8.2	8.2	8.2	27.2	17.2	18.2	22.2	22.2	21.4													
35	ISV19CS043	MONIKA P	10	13	20	10	7	6	10	10	4	4	4	4	4	42	8.4	8.4	8.4	8.4	8.4	22.4	19.4	18.4	22.4	22.4	21													
36	ISV19CS044	MONISHA P	18	18	16	18	9	9	8	8	4	4	4	4	4	43	8.6	8.6	8.6	8.6	8.6	30.6	21.6	21.6	20.6	20.6	23													
37	ISV19CS045	NAGAKRUPA D R	18	20	19	18	10	10	10	9	4	4	4	4	4	41	8.2	8.2	8.2	8.2	8.2	30.2	22.2	22.2	22.2	21.2	23.6													
38	ISV19CS046	NANDAN KUMAR M	15	15	19	15	7	8	10	9	4	4	4	4	4	55	11	11	11	11	11	30	22	23	25	24	24.8													
39	ISV19CS047	NANDINI A	19	20	20	19	10	10	10	10	4	4	4	4	4	22	4.4	4.4	4.4	4.4	4.4	27.4	18.4	18.4	18.4	18.4	20.2													
40	ISV19CS048	NAYANA H S	14	19	20	14	10	9	10	10	3	3	4	4	4	45	9	9	9	9	9	26	22	22	23	23	23.2													
41	ISV19CS050	NIKKI KISHORE	20	20	20	20	10	10	10	10	4	4	4	4	4	41	8.2	8.2	8.2	8.2	8.2	32.2	22.2	22.2	22.2	22.2	24.2													
42	ISV19CS051	NOOR JAHAN	10	13	12	10	6	7	6	6	3	3	3	3	3	44	8.8	8.8	8.8	8.8	8.8	21.8	17.8	18.8	17.8	17.8	18.8													
43	ISV19CS052	PRAMOD R	20	16	20	20	8	8	10	10	4	4	4	4	4	29	5.8	5.8	5.8	5.8	5.8	29.8	17.8	17.8	19.8	19.8	21													
44	ISV19CS053	PRIYA R ACHARYA	20	20	20	20	10	10	10	10	4	4	4	4	4	33	6.6	6.6	6.6	6.6	6.6	30.6	20.6	20.6	20.6	20.6	22.6													
45	ISV19CS054	RAHUL S	0	20	18	0	10	10	10	8	3	3	3	3	3	43	8.6	8.6	8.6	8.6	8.6	11.6	21.6	21.6	21.6	19.6	19.2													
46	ISV19CS055	RAJAN KUMAR PATEL	14	17	18	14	10	7	10	8	4	4	4	4	4	32	6.4	6.4	6.4	6.4	6.4	24.4	20.4	17.4	20.4	18.4	20.2													
47	ISV19CS056	RAKSHITH B R	15	17	19	15	10	7	9	10	4	4	4	4	4	41	8.2	8.2	8.2	8.2	8.2	27.2	22.2	19.2	21.2	22.2	22.4													
48	ISV19CS057	RAVINDRA H V	19	20	20	19	10	10	10	10	4	4	4	4	4	43	8.6	8.6	8.6	8.6	8.6	31.6	22.6	22.6	22.6	22.6	24.4													
49	ISV19CS058	S ANKITHA	0	19	20	0	10	10	10	10	4	4	4	4	4	47	9.4	9.4	9.4	9.4	9.4	13.4	23.4	23.4	23.4	23.4	21.4													
50	ISV19CS059	SAHANA B R	12	7	20	12	4	3	10	10	4	4	4	4	4	32	6.4	6.4	6.4	6.4	6.4	22.4	14.4	13.4	20.4	20.4	18.2													
51	ISV19CS060	SAHANA SHARANAPPA	8	18	20	8	10	8	10	10	4	4	4	4	4	24	4.8	4.8	4.8	4.8	4.8	16.8	18.8	16.8	18.8	18.8	18													
52	ISV19CS061	SAI KISHAN M R	13	15	18	13	7	8	10	8	4	4	4	4	4	24	4.8	4.8	4.8	4.8	4.8	21.8	15.8	16.8	18.8	16.8	18													
53	ISV19CS062	SANIHA C	8	7	20	8	4	3	10	10	4	4	4	4	4	21	4.2	4.2	4.2	4.2	4.2	16.2	12.2	11.2	18.2	18.2	15.2													
54	ISV19CS063	SANTHOSH C	16	15	13	16	7	8	6	7	4	4	4	4	4	35	7	7	7	7	7	27	18	19	17	18	19.8													
																					24.6	19.4	18.9	20.5	20.2															
																					68.2%	74.6%	72.7%	78.7%	77.8%															

STAFF SIGNATURE

HOD, CSE

HOD,
COMPUTER SCIENCE & ENGG.,
SIET, TUMAKURU-06.

PRINCIPAL
SIET, TUMKUR.

Department of Computer Science and Engineering

COURSE OUTCOME

- CO1.** Interpret the impact and challenges posed by IoT networks leading to new architectural models.
- CO2.** Compare and contrast the development of smart objects and the technologies to connect them to network.
- CO3.** Appraise the role of IoT protocols for efficient network communication.
- CO4.** Elaborate the need for Data Analytics and Security in IoT.
- CO5.** Illustrate different sensor technologies for sensing real world entities, and identify the applications of IoT in Industry.

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. MERLIN B														
BRANCH	CSE			ACADEMIC YEAR				2022-23							
COURSE	B.E	SEMESTER		VIII		SECTION			B						
SUBJECT	INTERNET OF THINGS					SUBJECT CODE			18CS81						
CO & PO MAPPING															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3												1		
CO2	2	2											2		
CO3	2	2											1		
CO4		1				2							1		
CO5	2	2											2	1	
AVERAGE	2.25	1.75				2							1.4	1	
OVERALL MAPPING OF SUBJECT												1.68			

CO - PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	67.2	2.01												0.67		
CO2	69.8	1.39	1.39											1.39		
CO3	64.7	1.29	1.29											0.64		
CO4	72.8		0.72				1.45							0.72		
CO5	66.9	1.33	1.33											1.33	0.66	
AVERAGE		1.50	1.18				1.45							0.95	0.66	
FINAL ATTAINMENT LEVEL													1.14			

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

SUB:Internet of Things			Sem:VIII 'B'SEC													2022-23					EVEN					FACULTY NAME:Mrs.Merlin B					TOTAL AVG
Roll No.	USN	NAME	18CS81			T1	T2	T3			ASSIGNMENT 20/5 (Project Report)					SEE (60)	EXTERNAL					Final									
			T1	T2	T3	CO1-20	CO2-10	CO3-10	CO4-10	CO5-10	CO1-4	CO2-4	CO3-4	CO4-4	CO5-4		CO1-12	CO2-12	CO3-12	CO4-12	CO5-12	CO1-36	CO2-26	CO3-26	CO4-26	CO5-26					
1	1SV19CS064	SATYAM KUMAR CHAUBEY	14	18	19	14	10	8	10	9	4	4	4	4	4	36	7.2	7.2	7.2	7.2	7.2	25	21	19	21	20	21.4				
2	1SV19CS065	SHAFIYA KHANUM	17	11	18	17	7	4	9	9	4	4	4	4	4	29	5.8	5.8	5.8	5.8	5.8	27	17	14	19	19	19.0				
3	1SV19CS066	SHAH HUSSAIN AHAMED S A	12	9	15	12	6	3	10	5	4	4	4	4	4	32	6.4	6.4	6.4	6.4	6.4	22	16	13	20	15	17.6				
4	1SV19CS067	SHWET KUMAR	15	14	15	15	8	6	9	6	4	4	4	4	4	27	5.4	5.4	5.4	5.4	5.4	23	16	12	17	12	16.4				
5	1SV19CS068	SIDDALINGALAH N.M	14	10	11	14	7	3	8	3	4	4	4	4	4	42	8.4	8.4	8.4	8.4	8.4	27	22	21	21	19	22.4				
6	1SV19CS069	SIDDESHYADAV G.S	15	19	16	15	10	9	9	7	4	4	4	4	4	30	6	6	6	6	6	29	20	17	20	19	21.0				
7	1SV19CS070	SIKAS S K	19	17	19	19	10	7	10	9	4	4	4	4	4	42	8.4	8.4	8.4	8.4	8.4	27	22	21	21	19	22.4				
8	1SV19CS071	SINCHANA B S	17	13	17	17	7	6	10	7	4	4	4	4	4	30	6	6	6	6	6	29	20	17	20	19	21.0				
9	1SV19CS072	SRUJAN H K	10	14	17	10	9	5	9	8	4	4	4	4	4	42	8.4	8.4	8.4	8.4	8.4	29	19	18	22	19	21.8				
10	1SV19CS074	SUCHITRA H C	17	17	14	17	10	7	8	6	4	4	4	4	4	48	9.6	9.6	9.6	9.6	9.6	24	23	19	23	22	21.8				
11	1SV19CS076	SUHAS H B	13	12	19	13	6	6	10	9	4	4	4	4	4	36	7.2	7.2	7.2	7.2	7.2	28	21	18	19	17	20.8				
12	1SV19CS077	SUPRIYA C S	8	0	13	8	0	0	6	7	4	4	4	4	4	35	7	7	7	7	7	24	17	17	21	20	19.8				
13	1SV19CS079	THARUN	10	7	10	10	0	7	0	10	4	4	4	4	4	21	4.2	4.2	4.2	4.2	4.2	16	8	8	14	15	12.4				
14	1SV19CS081	VARSHA N.	13	15	15	13	10	5	10	5	4	4	4	4	4	40	8	8	8	8	8	25	22	17	22	17	20.6				
15	1SV19CS082	VARSHINI J	16	17	16	16	10	7	9	7	4	4	4	4	4	32	6.4	6.4	6.4	6.4	6.4	26	20	17	19	17	20.2				
16	1SV19CS083	Y S.YASWANTH SAI	19	20	17	19	10	10	10	7	4	4	4	4	4	51	10.2	10.2	10.2	10.2	10.2	33	24	24	24	21	25.4				
17	1SV19CS084	YASHAS G	11	15	11	11	7	8	8	3	4	4	4	4	4	26	5.2	5.2	5.2	5.2	5.2	20	16	17	17	12	16.6				
18	1SV19CS085	YATHISH GOWDA K H	16	12	18	16	6	6	10	8	4	4	4	4	4	33	6.6	6.6	6.6	6.6	6.6	27	17	17	21	19	19.8				
19	1SV19CS086	ZAKAUR RAHMAN	15	11	15	15	6	5	9	6	4	4	4	4	4	40	8	8	8	8	8	27	18	17	21	18	20.2				
20	1SV18CS002	AISHWARYA S	12	14	12	12	6	8	6	6	4	4	4	4	4	28	5.6	5.6	5.6	5.6	5.6	22	16	18	16	16	17.2				
21	1SV18CS006	BHARATH KUMAR J	18	19	18	18	10	9	9	9	4	4	4	4	4	40	8	8	8	8	8	30	22	21	21	21	23.0				
22	1SV18CS009	DEEKSHITH R	6	18	16	6	9	9	7	9	4	4	4	4	4	44	8.8	8.8	8.8	8.8	8.8	19	22	22	20	22	20.8				
23	1SV18CS012	DIVYA DEEKSHITH S	12	13	17	12	7	6	9	8	4	4	4	4	4	21	4.2	4.2	4.2	4.2	4.2	20	15	14	17	16	16.6				
24	1SV18CS018	GURUPRASAD B S	15	14	15	15	8	6	8	7	4	4	4	4	4	27	5.4	5.4	5.4	5.4	5.4	24	17	15	17	16	18.2				
25	1SV18CS034	RAKSHITHA RANGANATH	12	15	13	12	9	6	8	5	4	4	4	4	4	22	4.4	4.4	4.4	4.4	4.4	20	17	14	16	13	16.4				
26	1SV18CS047	YASHVANTHKUMAR P	9	18	13	9	9	9	8	5	4	4	4	4	4	40	8	8	8	8	8	21	21	21	20	17	20.0				
27	1SV20CS400	HEMA M.S	13	13	14	13	7	6	9	5	4	4	4	4	4	29	5.8	5.8	5.8	5.8	5.8	23	17	16	19	15	17.8				
28	1SV20CS401	SWATHI K.M	13	10	10	13	7	3	5	5	4	4	4	4	4	36	7.2	7.2	7.2	7.2	7.2	24	18	14	16	16	17.8				

24.21	18.14	16.81	18.92	17.39
67.2%	69.8%	64.7%	72.8%	66.9%

Bas
HOD.
COMPUTER SCIENCE & ENGG.,
SIET, TUMAKURU-06.

Merlin B
PRINCIPAL
SIET, TUMKUR.

Department of Computer Science and Engineering

COURSE OUTCOME

- CO1. Evaluate storage architectures
- CO2. Define backup, recovery, disaster recovery, business continuity, and replication
- CO3. Examine emerging technologies including IP-SAN
- CO4. Understand logical and physical components of a storage infrastructure
- CO5. Identify components of managing and monitoring the data center.
- CO6: Define logical and physical components.

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. SHRUTHI S														
BRANCH	CSE			ACADEMIC YEAR				2022-23							
COURSE	B.E	SEMESTER		VIII		SECTION			"A"						
SUBJECT	STORAGE AREA NETWORKS					SUBJECT CODE			18CS822						
CO & PO MAPPING															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2											2		
CO2	1	2	2									1			
CO3	2												2		2
CO4	2		2		1	1							1	1	2
CO5	1	2										2			2
CO6	2	3	2		2	3						1	1	1	3
AVERAGE	1.83	2.25	2		1.5	2						1.33	1.5	1	2.25
OVERALL MAPPING OF SUBJECT												1.74			

CO - PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	88.3	2.64	1.76											1.76		
CO2	88.8	0.88	1.77	1.77									0.88			
CO3	93.2	1.86												1.86		1.86
CO4	71.6	1.43		1.43		0.71	0.71							0.71	0.71	1.43
CO5	58.6	0.58	1.17										1.17			1.17
CO6	80.7	1.61	2.42	1.61		1.61	2.42						0.80	0.80	0.80	2.42
AVERAGE		1.5	1.78	1.60		1.16	1.56						0.95	1.28	0.75	1.72
FINAL ATTAINMENT LEVEL													1.36			


H.Q.D.
COMPUTER SCIENCE & ENGG.,
S.I.E.T, TUMAKURU-06.

VIII SEM 'A' SECTION(CSE)

Storage Area Networks		Mrs.Shruthi S																		FINAL						TOTAL AVG						
		I8CS822			2022-2023			EVEN			NAME OF THE STAFF			ASSIGNMENT 10/6						SEE												
		IA MARKS			T1			T2			T3			ASSIGNMENT 10/6						SEE												
Roll No.	USN	Name	T1 (30)	T2 (30)	T3 (30)	CO1-15	CO1-15	CO2-15	CO3-15	CO4-6	CO5-9	CO6-15	CO1-2	CO2-2	CO3-2	CO4-2	CO5-1	CO6-1	SEE (60)	CO1-10	CO2-10	CO3-10	CO4-10	CO5-10	CO6-10	CO1-42	CO2-27	CO3-27	CO4-18	CO5-20	CO6-26	
1	ISV19CS001	AFREEN AFSHAN	23	29	30	20	10	20	19	8	12	20	2	2	2	2	1	1	56	9.33	9.33	9.33	9.33	9.33	9.33	41	41	50	38	30	42	41
2	ISV19CS003	AKASH KUMAR SINGH	29	27	30	20	18	18	18	8	12	20	2	2	2	2	1	1	47	7.83	7.83	7.83	7.83	7.83	7.83	48	46	46	36	29	41	41
3	ISV19CS005	AKSHATHA M	30	21	30	20	20	18	10	8	12	20	2	2	2	2	1	1	40	6.67	6.67	6.67	6.67	6.67	6.67	49	47	37	27	28	40	38
4	ISV19CS006	AMRIT GYAWALI	26	30	30	17	18	20	20	8	12	20	2	2	2	2	1	1	44	7.33	7.33	7.33	7.33	7.33	7.33	44	47	49	37	28	40	41
5	ISV19CS007	ANKITHA K	22	27	30	15	14	20	16	8	12	20	2	2	2	2	1	1	33	5.50	5.50	5.50	5.50	5.50	5.50	37	42	44	32	27	39	36
6	ISV19CS008	ANUSHA B	20	26	30	18	8	16	19	8	12	20	2	2	2	2	1	1	53	8.83	8.83	8.83	8.83	8.83	8.83	37	35	46	38	30	42	38
7	ISV19CS011	ASHRITH P	25	30	30	20	13	20	20	8	12	20	2	2	2	2	1	1	23	3.83	3.83	3.83	3.83	3.83	3.83	39	39	46	34	25	37	37
8	ISV19CS013	AYESHA SALEEM	24	29	30	15	17	20	19	8	12	20	2	2	2	2	1	1	44	7.33	7.33	7.33	7.33	7.33	7.33	41	46	48	36	28	40	40
9	ISV19CS015	BHAGYASHREE G	29	29	30	20	18	19	20	8	12	20	2	2	2	2	1	1	47	7.83	7.83	7.83	7.83	7.83	7.83	48	47	49	38	29	41	42
10	ISV19CS016	BHARATHI H	30	26	30	20	20	20	14	8	12	20	2	2	2	2	1	1	47	7.83	7.83	7.83	7.83	7.83	7.83	50	50	44	32	29	41	41
11	ISV19CS018	BHAVANA C	18	29	30	18	6	20	18	8	12	20	2	2	2	2	1	1	47	7.83	7.83	7.83	7.83	7.83	7.83	34	36	48	36	29	41	37
12	ISV19CS019	BHOJANNA AJAY	14	16	14	18	0	15	6	8	11	0	2	2	2	2	1	1	38	6.33	6.33	6.33	6.33	6.33	6.33	26	23	29	22	26	18	24
13	ISV19CS020	BHOOMIKA J N	23	30	30	20	10	20	20	8	12	20	2	2	2	2	1	1	39	6.50	6.50	6.50	6.50	6.50	6.50	39	39	49	37	28	40	38
14	ISV19CS021	BHUVANESHWARI	26	29	30	20	15	19	20	8	12	20	2	2	2	2	1	1	47	7.83	7.83	7.83	7.83	7.83	7.83	45	44	49	38	29	41	41
15	ISV19CS022	BHUVANESHWARI A	30	30	30	20	20	20	20	8	12	20	2	2	2	2	1	1	39	6.50	6.50	6.50	6.50	6.50	6.50	49	49	49	37	28	40	42
16	ISV19CS023	CETHAN V	26	28	29	20	15	19	18	8	11	20	2	2	2	2	1	1	45	7.50	7.50	7.50	7.50	7.50	7.50	45	44	47	36	28	40	40
17	ISV19CS025	DEEKSHA K	20	30	30	16	11	20	20	8	12	20	2	2	2	2	1	1	40	6.67	6.67	6.67	6.67	6.67	6.67	36	40	49	37	28	40	38
18	ISV19CS027	DISHAN M	30	30	30	20	20	20	20	8	12	20	2	2	2	2	1	1	41	6.83	6.83	6.83	6.83	6.83	6.83	49	49	49	37	28	40	42
19	ISV19CS028	DULARCHAND KALWAR	11	19	10	10	5	14	11	8	5	0	2	2	2	2	1	1	41	6.83	6.83	6.83	6.83	6.83	6.83	24	28	34	28	21	13	25
20	ISV19CS029	ESRA BANU	23	29	30	20	10	19	20	8	12	20	2	2	2	2	1	1	39	6.50	6.50	6.50	6.50	6.50	6.50	39	38	48	37	28	40	38
21	ISV19CS030	GAYATHRIDEVI K M	25	30	30	20	15	20	20	8	12	20	2	2	2	2	1	1	48	8.00	8.00	8.00	8.00	8.00	8.00	45	45	50	38	29	41	41
22	ISV19CS032	H BARKATHULLA	26	30	30	20	15	20	20	8	12	20	2	2	2	2	1	1	44	7.33	7.33	7.33	7.33	7.33	7.33	44	44	49	37	28	40	41
23	ISV19CS033	HARISHA M R	30	30	30	20	20	20	20	8	12	20	2	2	2	2	1	1	53	8.83	8.83	8.83	8.83	8.83	8.83	51	51	51	39	30	42	44
24	ISV19CS034	HARSHITHA C	30	30	30	20	20	20	20	8	12	20	2	2	2	2	1	1	36	6.00	6.00	6.00	6.00	6.00	6.00	48	48	48	36	27	39	41
25	ISV19CS035	HEMANTH K R	24	30	30	20	12	20	20	8	12	20	2	2	2	2	1	1	45	7.50	7.50	7.50	7.50	7.50	7.50	42	42	50	38	29	41	40
26	ISV19CS037	JYOTI MOHAN MADIWALAR	26	26	30	20	15	15	20	8	12	20	2	2	2	2	1	1	36	6.00	6.00	6.00	6.00	6.00	6.00	43	38	43	36	27	39	38
27	ISV19CS038	KALPANA M N	25	26	30	20	13	20	15	8	12	20	2	2	2	2	1	1	39	6.50	6.50	6.50	6.50	6.50	6.50	42	42	44	32	28	40	38
28	ISV19CS040	LAVANYA T S	26	30	30	20	15	20	20	8	12	20	2	2	2	2	1	1	40	6.67	6.67	6.67	6.67	6.67	6.67	44	44	49	37	28	40	40
29	ISV19CS041	MADHAVI REDDY M	25	17	23	20	13	12	10	8	12	10	2	2	2	2	1	1	41	6.83	6.83	6.83	6.83	6.83	6.83	42	34	31	27	28	30	32
30	ISV19CS042	MAHALAKSHMI H	30	18	30	20	20	10	14	8	12	20	2	2	2	2	1	1	32	5.33	5.33	5.33	5.33	5.33	5.33	47	37	31	29	26	38	35
31	ISV19CS043	MONIKA P	17	29	30	16	6	19	20	8	12	20	2	2	2	2	1	1	42	7.00	7.00	7.00	7.00	7.00	7.00	31	34	48	37	28	40	36
32	ISV19CS044	MONISHA P	30	30	30	20	20	20	20	8	12	20	2	2	2	2	1	1	43	7.17	7.17	7.17	7.17	7.17	7.17	49	49	49	37	28	40	42
33	ISV19CS045	NAGAKRUPA D R	25	29	30	14	19	19	20	8	12	20	2	2	2	2	1	1	35	5.83	5.83	5.83	5.83	5.83	5.83	41	46	47	36	27	39	39
34	ISV19CS046	NANDAN KUMAR M	30	30	30	20	20	20	20	8	12	20	2	2	2	2	1	1	33	5.50	5.50	5.50	5.50	5.50	5.50	48	48	48	36	27	39	41
35	ISV19CS047	NANDINI A	30	30	30	20	20	20	20	8	12	20	2	2	2	2	1	1	44	7.33	7.33	7.33	7.33	7.33	7.33	49	49	49	37	28	40	42
36	ISV19CS048	NAYANA H S	30	21	30	20	20	16	12	8	12	20	2	2	2	2	1	1	50	8.33	8.33	8.33	8.33	8.33	8.33	50	46	38	30	29	41	39
37	ISV19CS050	NIKKI KISHORE	30	30	30	20	20	20	20	8	12	20	2	2	2	2	1	1	48	8.00	8.00	8.00	8.00	8.00	8.00	50	50	50	38	29	41	43
38	ISV19CS051	NOOR JAHAN	28	24	30	20	17	20	12	8	12	20	2	2	2	2	1	1	40	6.67	6.67	6.67	6.67	6.67	6.67	46	46	41	29	28	40	38
39	ISV19CS053	PRIYA R ACHARYA	30	30	30	20	20	20	20	8	12	20	2	2	2	2	1	1	39	6.50	6.50	6.50	6.50	6.50	6.50	49	49	49	37	28	40	42
40	ISV19CS054	RAHUL S	25	8	14	20	13	8	3	7	12	0	2	2	2	2	1	1	27	4.50	4.50	4.50	4.50	4.50	4.50	40	28	18	17	25	18	24
41	ISV19CS055	RAJAN KUMAR PATEL	30	30	30	20	20	20	20	8	12	20	2	2	2	2	1	1	47	7.83	7.83	7.83	7.83	7.83	7.83	50	50	50	38	29	41	43
42	ISV19CS056	RAKSHITH B R	25	26	30	18	15	18	16	8	12	20	2	2	2	2	1	1	27	4.50	4.50	4.50	4.50	4.50	4.50	40	40	41	31	26	38	36
43	ISV19CS057	RAVINDRA H V	30	30	30	20	20	20	20	8	12	20	2	2	2	2	1	1	40	6.67	6.67	6.67	6.67	6.67	6.67	49	49	49	37	28	40	42
44	ISV19CS058	S ANKITHA	20	25	30	7	20	17	16	8	12	20	2	2	2	2	1	1	40	6.67	6.67	6.67	6.67	6.67	6.67	36	46	42	33	28	40	37
45	ISV19CS059	SAHANA B R	15	20	30	10	10	9	18	8	12	20	2	2	2	2	1	1	38	6.33	6.33	6.33	6.33	6.33	6.33	28	27	35	34	27	39	32
46	ISV19CS060	SAHANA SHARANAPPA GULARADDI	27	26	30	16	20	18	16	8	12	20	2	2	2	2	1	1	40	6.67	6.67	6.67	6.67	6.67	6.67	45	47	43	33	28	40	39
47	ISV19CS061	SAI KISHAN M R	14	20	30	8	10	16	10	8	12	20	2	2	2	2	1	1	44	7.33	7.33	7.33	7.33	7.33	7.33	27						



Department of Computer Science and Engineering

COURSE OUTCOME

- C01.** Identify key challenges in managing information and analyze different storage networking technologies and virtualization
- C02.** Explain components and the implementation of NAS
- C03.** Describe CAS architecture and types of archives and forms of virtualization
- C04.** Illustrate the storage infrastructure and management activities

PROGRAM OUTCOMES

- P01** Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
- P02** Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- P03** Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.
- P04** 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.
- P05** Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.
- P06** The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.
- P07** 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.
- P08** Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- P09** Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- P010** Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.
- P011** 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.
- P012** 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. SUTHAN R															
BRANCH	CSE			ACADEMIC YEAR				2022-23								
COURSE	B.E	SEMESTER		VIII	SECTION											
SUBJECT	STORAGE AREA NETWORKS				SUBJECT CODE		18CS822									
CO & PO MAPPING																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	
CO1	3	2											2			
CO2	1	2	2									1				
CO3	2												2		2	
CO4	2		2		1	1							1	1	2	
AVERAGE	2	2	2		1	1							1	1.25	1	2
OVERALL MAPPING OF SUBJECT												1.47				

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	75.4	2.26	1.50											1.50		
CO2	80.2	0.80	1.60	1.60									0.80			
CO3	75.9	1.51												1.51		1.51
CO4	75.3	1.50		1.50		0.75	0.75							0.75	0.75	1.50
AVERAGE		1.51	1.55	1.55		0.75	0.75						0.80	1.13	0.75	1.50
FINAL ATTAINMENT LEVEL													1.14			

VIII SEM "B" SECTION(CSE)

Sub: Storage Area Networks			18CS822				2022-2023				EVEN		NAME OF THE STAFF				Mr.Suthan R				TOTAL AVG		
Roll No.	USN	Name	IA MARKS			T1	T2	T3		ASSIGNMENT 10/6				SEE (60)				FINAL					
			T1 (30)	T2 (30)	T3 (30)	CO1- 30	CO2- 30	CO3- 15	CO4- 15	CO1- 3	CO2- 2	CO3- 3	CO4- 2	SEE (60)	CO1- 15	CO2- 15	CO3- 15	CO4- 15	CO1-48	CO2-47		CO3-33	CO4-32
1	ISV19CS064	SATYAM KUMAR CHAUBEY	26	29	28	26	29	14	14	3	2	3	2	48	12	12	12	12	41	43	29	28	35.3
2	ISV19CS065	SHAFTYA KHANUM	23	28	29	23	28	15	14	3	2	3	2	50	13	13	13	13	39	43	31	29	35.0
3	ISV19CS066	SHAH HUSSAIN AHAMED S A	21	29	22	21	29	11	11	3	2	3	2	31	8	8	8	8	32	39	22	21	28.3
4	ISV19CS067	SHWET KUMAR	26	28	24	26	28	12	12	3	2	3	2	32	8	8	8	8	37	38	23	22	30.0
5	ISV19CS068	SIDDALINGAIAH N M	20	25	21	20	25	10	11	3	2	3	2	47	12	12	12	12	35	39	25	25	30.8
6	ISV19CS069	SIDDESHYADAV G S	26	24	26	26	24	13	13	3	2	3	2	45	11	11	11	11	40	37	27	26	32.8
7	ISV19CS070	SIKAS S K	27	29	27	27	29	14	13	3	2	3	2	38	10	10	10	10	40	41	27	25	32.8
8	ISV19CS071	SINCHANA B S	29	28	28	29	28	14	14	3	2	3	2	39	10	10	10	10	42	40	27	26	33.5
9	ISV19CS072	SRUJAN H K	27	26	25	27	26	13	12	3	2	3	2	40	10	10	10	10	40	38	26	24	32.0
10	ISV19CS074	SUCHITRA H C	20	26	27	20	26	13	14	3	2	3	2	42	11	11	11	11	34	39	27	27	31.3
11	ISV19CS076	SUHAS H B	21	28	24	21	28	12	12	3	2	3	2	41	10	10	10	10	34	40	25	24	31.0
12	ISV19CS077	SUPRIYA C S	26	22	15	26	22	7	8	3	2	3	2	32	8	8	8	8	37	32	18	18	26.3
13	ISV19CS079	THARUN	10	25	25	10	25	12	13	3	2	3	2	33	8	8	8	8	21	35	23	23	25.8
14	ISV19CS081	VARSHA N	26	23	21	26	23	10	11	3	2	3	2	30	8	8	8	8	37	33	21	21	27.5
15	ISV19CS082	VARSHINI J	29	29	23	29	29	12	11	3	2	3	2	40	10	10	10	10	42	41	25	23	32.8
16	ISV19CS083	Y S YASWANATH SAI	29	30	29	29	30	15	14	3	2	3	2	53	13	13	13	13	45	45	31	29	37.8
17	ISV19CS084	YASHAS G	12	15	8	12	15	4	4	3	2	3	2	38	10	10	10	10	25	27	17	16	20.8
18	ISV19CS085	YATHISH GOWDA K H	26	23	28	26	23	14	14	3	2	3	2	44	11	11	11	11	40	36	28	27	32.8
19	ISV19CS086	ZAKAUR RAHMAN	29	29	26	29	29	13	13	3	2	3	2	46	12	12	12	12	44	43	28	27	35.0
20	ISV18CS002	AISHWARYA S	20	28	29	20	28	15	14	3	2	3	2	25	6	6	6	6	29	36	24	22	28.0
21	ISV18CS006	BHARATH KUMAR J	21	29	29	21	29	14	15	3	2	3	2	50	13	13	13	13	37	44	30	30	34.8
22	ISV18CS009	DEEKSHITH R	8	24	24	8	24	12	12	3	2	3	2	26	7	7	7	7	18	33	22	21	23.0
23	ISV18CS012	DIVYA DEEKSHITH S	26	29	29	26	29	15	14	3	2	3	2	33	8	8	8	8	37	39	26	24	31.8
24	ISV18CS018	GURUPRASAD B S	24	24	27	24	24	14	13	3	2	3	2	27	7	7	7	7	34	33	24	22	28.0
25	ISV18CS034	RAKSHITHA RANGANATH.	29	28	27	29	28	13	14	3	2	3	2	39	10	10	10	10	42	40	26	26	33.3
26	ISV18CS047	YASHVANTHKUMAR P	26	25	25	26	25	12	13	3	2	3	2	40	10	10	10	10	39	37	25	25	31.5
27	ISV20CS400	HEMA M S	25	23	22	25	23	11	11	3	2	3	2	42	11	11	11	11	39	36	25	24	30.5
28	ISV20CS401	SWATHI K M	26	23	27	26	23	13	14	3	2	3	2	32	8	8	8	8	37	33	24	24	29.5
																		36.2	37.7	25.1	24.1		
																		75.4%	80.2%	75.9%	75.3%		

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