



## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### COURSE OUTCOME

- CO1:** Demonstrate proficiency in handling loops and creation of functions.
- CO2:** Identify the methods to create and manipulate lists, tuples and dictionaries.
- CO3:** Develop programs for string processing and file organization
- CO4:** Interpret the concepts of Object Oriented Programming as used in Python.

**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

- 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**

<b>FACULTY NAME</b>		<b>Dr. Rekha H</b>														
<b>BRANCH</b>		<b>ISE</b>				<b>ACADEMIC YEAR</b>				<b>2023-24</b>						
<b>COURSE</b>	<b>B.E</b>	<b>SEMESTER</b>				<b>I</b>	<b>SECTION</b>				<b>G</b>					
<b>SUBJECT</b>	<b>INTRODUCTION TO PYTHON PROGRAMMING</b>						<b>SUBJECT CODE</b>				<b>BPLCK105B</b>					

**CO & PO MAPPING**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	2												2		
<b>CO2</b>	2	3											3		
<b>CO3</b>	2	3	3										3		
<b>CO4</b>	2	3											2		
<b>AVERAGE</b>	2	2.25	0.75										2.5		

**CO & PO ATTAINMENT**

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	65	1.3												1.3		
<b>CO2</b>	63	1.26	1.89											1.89		
<b>CO3</b>	74	1.48	2.22	2.22										2.22		
<b>CO4</b>	71	1.42	2.13											1.42		
<b>AVERAGE</b>	68.25	1.36	2.08	2.22										1.70		

*Rekha H*  
**PRINCIPAL**  
**SIET. TUMKUR.**

Roll No.	USN	Name	FACULTY : Dr. Rekha H																				TOTAL AVG														
			BPLCK1058		Sem: I	2022-23	ODD	Introduction to python programming								ASSIGNMENT 10 + Lab 15				EXTERNAL				Final													
			'G' SEC					T1	T2	T3		COI-6		CO2-6		CO3-7		CO4-6		SEE(50)	COI-12			CO2-13		CO3-12		CO4-13		COI-48		CO2-49		CO3-34		CO4-34	
			T1(30)	T2(30)	T3(30)	CO1-30	CO2-(30)	CO3-(15)	CO4-(15)	COI-6	CO2-6	CO3-7	CO4-6	SEE(50)	COI-12	CO2-13	CO3-12	CO4-13	COI-48	CO2-49	CO3-34	CO4-34															
1	ISV22IS037	Sai Vignesh H M	0	21	15	0	21	7	8	5	5	5	4	29	7	7	7	7	12	33	19	19	21														
2	ISV23IS001	Amith babu M P	12	11	15	12	11	7	8	6	6	7	6	38	10	10	10	10	28	27	24	24	25														
3	ISV23IS002	Ananya H V	17.25	0	23.5	17.25	0	11.5	12.5	6	6	7	6	39	10	10	10	10	33	16	28	28	26														
4	ISV23IS003	Ankitha K M	17.25	14.25	18	17.25	14.25	10	8	6	6	7	6	41	10	10	10	10	34	31	27	24	29														
5	ISV23IS004	Bhavana R	21	18	15	21	18	7	8	6	6	7	6	42	11	11	11	11	38	35	25	25	30														
6	ISV23IS005	Bhoomika C M	23	12	14	23	12	7	7	6	6	7	6	41	10	10	10	10	39	28	24	23	29														
7	ISV23IS006	Bhoomika G	26	27.75	22	26	27.75	11	11	6	6	7	6	48	12	12	12	12	44	46	30	29	37														
8	ISV23IS007	Chowdry	12	7.5	15	12	7.5	7	8	5	5	6	6	33	8	8	8	8	25	21	21	22	22														
9	ISV23IS008	D Nanditha	12	15.75	28	12	15.75	14	14	6	6	7	6	42	11	11	11	11	29	32	32	31	31														
10	ISV23IS009	Darshan K V	19.5	23	21	19.5	23	10	11	6	6	7	6	46	11	11	11	11	37	40	28	28	34														
11	ISV23IS010	Deepak R	14	18	15	14	18	7	8	6	6	7	6	41	10	10	10	10	30	34	24	24	28														
12	ISV23IS011	H B Anusha	20	18	13	20	18	6	7	6	6	7	6	42	10	10	10	10	36	34	23	23	29														
13	ISV23IS012	H M Gowthami	21	0	16	21	0	8	8	6	5	6	5	33	8	8	8	8	35	13	22	21	23														
14	ISV23IS013	Hemabhinaya G	11.25	12	16	11.25	12	8	8	6	6	7	6	39	10	10	10	10	27	28	25	24	26														
15	ISV23IS014	K P Aishwitha	19	23	20	19	23	10	10	6	6	7	6	45	11	11	11	11	36	40	28	27	33														
16	ISV23IS015	Keerthana M	26.25	13.5	9	26.25	13.5	5	4	6	6	7	6	41	10	10	10	10	43	30	22	20	29														
17	ISV23IS016	Koushik S	11.25	20	17	11.25	20	10	7	6	6	7	6	41	10	10	10	10	28	36	27	23	29														
18	ISV23IS017	Kumaraswamy S	14.25	8	13	14.25	8	6	7	6	5	6	5	33	8	8	8	8	28	21	20	20	23														
19	ISV23IS018	Megha Irappa	26	21	0	26	21	0	0	6	6	7	6	41	10	10	10	10	42	37	17	16	28														
20	ISV23IS019	Monisha R	19	20	15	19	20	7	8	6	6	7	6	42	11	11	11	11	36	37	25	25	30														
21	ISV23IS020	Navyashree M	18	30	16	18	30	8	8	6	6	7	6	46	11	11	11	11	35	47	26	25	34														
22	ISV23IS021	Nayana G C	30	27	26	30	27	13	13	6	6	7	6	49	12	12	12	12	48	45	32	31	39														
23	ISV23IS022	Prajwal Gowda G R	15	17.25	12	15	17.25	6	6	6	6	7	6	40	10	10	10	10	31	33	23	22	27														
24	ISV23IS023	Prajwal M G	12.75	12	13	12.75	12	6	7	6	6	7	6	38	10	10	10	10	28	28	23	23	25														
25	ISV23IS024	Praveen B S	10.5	18	19	10.5	18	10	9	6	6	7	6	41	10	10	10	10	27	34	27	25	28														
26	ISV23IS025	Priyanka H	4.5	19.5	25	4.5	19.5	12	13	6	6	7	6	41	10	10	10	10	21	36	29	29	29														
27	ISV23IS026	Rajendra Prasad N C	10.5	18	11	10.5	18	6	5	6	6	7	6	39	10	10	10	10	26	34	23	21	26														
28	ISV23IS027	Rajshekhar S	13.5	13.5	10	13.5	13.5	5	5	6	6	7	6	38	10	10	10	10	29	29	22	21	25														
29	ISV23IS028	Ranjitha M P	19.5	13.5	9	19.5	13.5	5	4	6	6	7	6	39	10	10	10	10	35	29	22	20	27														
30	ISV23IS029	Saima Aliya Zahara	10.5	4.5	19.5	10.5	4.5	10.5	9	6	6	5	5	32	8	8	8	8	24	18	23	22	22														
31	ISV23IS030	Sanjay Kumar K S	7.5	7.5	20	7.5	7.5	10	10	5	5	6	6	33	8	8	8	8	21	21	24	24	22														
32	ISV23IS031	Sindhu V	21	5.25	16	21	5.25	8	8	6	6	7	6	39	10	10	10	10	37	21	25	24	27														
33	ISV23IS032	Srusti B K	13.5	0	24	13.5	0	12	12	6	6	7	6	38	10	10	10	10	29	16	29	28	25														
34	ISV23IS034	Sumit	0	16.5	19	0	16.5	10	9	5	5	6	6	33	8	8	8	8	13	30	24	23	23														
35	ISV23IS035	Suresh Kumar K	16	10	17	16	10	8	9	6	6	7	6	39	10	10	10	10	32	26	25	25	27														
36	ISV23IS036	T K M Pavithra	11	25	30	11	25	15	15	6	6	7	6	46	12	12	12	12	29	43	34	33	34														
37	ISV23IS037	Varshini B N	19	26	21	19	26	10	11	6	6	7	6	44	11	11	11	11	36	43	28	28	34														
38	ISV23IS038	Vijayakumar	16	15	17	16	15	10	7	6	6	7	6	41	10	10	10	10	32	31	27	23	29														
																				31.39	31.11	25.21	24.30														
																				65%	63%	74%	71%														

*Nandini Kumar*  
**PRINCIPAL**  
**SIET. TUMKUR.**



## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### COURSE OUTCOME

**C01:** Apply the K-Map techniques to simplify various Boolean expressions.

**C02:** Design different types of combinational and sequential circuits along with Verilog programs.

**C03:** Describe the fundamentals of machine instructions, addressing modes and Processor performance.

**C04:** Explain the approaches involved in achieving communication between processor and I/O devices.

### 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	ISE			ACADEMIC YEAR				2023-24							
COURSE	B.E	SEMESTER		III	SECTION										
SUBJECT	DIGITAL DESIGN AND COMPUTER ORGANIZATION						SUBJECT CODE			BCS302					
<b>CO &amp; PO MAPPING</b>															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	3	3	3						3	2	3	1
CO2	3	3	3	3		2						2	2	2	2
CO3	3		3	3	3	3						3		1	1
CO4	3	1	3	2		3						3	2	1	1
AVERAGE	3	2.3	2.8	2.8	3	2.8						2.8	2	1.8	1.3
<b>OVERALL MAPPING OF SUBJECT</b>												2.46			

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	58.6	1.75	1.75	1.17	1.75	1.75	1.75						1.75	1.17	1.75	0.58
CO2	64.6	1.93	1.93	1.93	1.93		1.29						1.29	1.29	1.29	1.29
CO3	64.3	1.92		1.92	1.92	1.92	1.92						1.92		0.64	0.64
CO4	64.9	1.94	0.64	1.94			1.94						1.94	1.29	0.64	0.64
AVERAGE		1.89	1.44	1.74	1.87	1.84	1.73						1.73	1.25	1.89	1.44
<b>FINAL ATTAINMENT LEVEL</b>													1.68			

**PRINCIPAL**  
**SIET, TUMKUR.**

Roll No.	USN	Name	Sem :III		023-2		ODD		FACULTY : Lavanya K												EXTERNAL				Final				TOTAL AVG
			Computer Network		T1		T2		T3		SIGNMENT 10 + LAB																		
			T1	T2	T3	CO1-20	CO2-20	CO3-10	CO4-10	CO1-8	CO2-9	CO3-8	CO4-10	LAB	ASS	SEE(50)	CO1-13	CO2-12	CO3-13	CO4-12	CO1-41	CO2-41	CO3-31	CO4-32					
1	1SV22IS001	AKASH	15	13	15	15	13	7	8	8	9	8	9	24	10	37	9	9	9	9	32	31	24	26	29				
2	1SV22IS002	AMULYA S	0	14	12	0	14	6	6	8	9	8	9	24	10	18	5	5	5	5	13	28	19	20	20				
3	1SV22IS003	ANUPAMA V	14	15	15	14	15	7	8	8	9	8	10	25	10	26	7	7	7	7	29	31	22	25	26				
4	1SV22IS004	AVINASH KADAPPA	14	14	11	14	14	5	6	8	9	8	9	24	10	18	5	5	5	5	27	28	18	20	23				
5	1SV22IS005	BINDHUSHREE B R	14	15	12	14	15	6	6	8	9	8	8	23	10	21	5	5	5	5	27	29	19	19	24				
6	1SV22IS006	C M MANASA	0	10	3	0	10	2	1	8	8	8	8	22	10	18	5	5	5	5	13	23	15	14	16				
7	1SV22IS007	CHANDANA S	9	5	0	9	5	0	0	8	9	8	8	23	10	30	8	8	8	8	25	22	16	16	19				
8	1SV22IS008	DARSHAN H G	14	12	12	14	12	6	6	8	8	8	8	22	10	33	8	8	8	8	30	28	22	22	26				
9	1SV22IS009	DHANUSH U	0	11	9	0	11	5	4	8	9	8	9	24	10	26	7	7	7	7	15	27	20	20	20				
10	1SV22IS010	DRUTHI K N	15	15	15	15	15	7	8	8	9	8	9	24	10	29	7	7	7	7	30	31	22	24	27				
11	1SV22IS011	FIROZ NOUSHAD	15	12	14	15	12	7	7	8	9	8	9	24	10	23	6	6	6	6	29	27	21	22	25				
12	1SV22IS012	G K SHARATH	13	13	10	13	13	5	5	8	9	8	8	23	10	19	5	5	5	5	26	27	18	18	22				
13	1SV22IS013	G VISHAL	12	8	10	12	8	5	5	8	9	8	9	24	10	19	5	5	5	5	25	22	18	19	21				
14	1SV22IS014	GANESH G-	11	5	10	11	5	5	5	8	9	8	8	23	10	22	6	6	6	6	25	20	19	19	20				
15	1SV22IS015	HARSH ANAND	13	12	12	13	12	6	6	8	8	8	8	22	10	25	6	6	6	6	27	26	20	20	24				
16	1SV22IS016	HITHYSH D	8	5	5	8	5	3	2	8	8	8	8	22	10	20	5	5	5	5	21	18	16	15	18				
17	1SV22IS017	JNANESH S	0	8	3	0	8	2	1	8	8	8	8	22	10	24	6	6	6	6	14	22	16	15	17				
18	1SV22IS018	KALYANI	15	12	15	15	12	7	8	8	9	8	9	24	10	29	7	7	7	7	30	28	22	24	26				
19	1SV22IS019	KARTHIK N	0	11	11	0	11	5	6	8	9	8	8	23	10	28	7	7	7	7	15	27	20	21	21				
20	1SV22IS020	KOMALA	12	14	14	12	14	7	7	8	9	8	10	25	10	21	5	5	5	5	25	28	20	22	24				
21	1SV22IS021	KOUSHIK N S	15	15	14	15	15	7	7	8	9	8	10	25	10	44	11	11	11	11	34	35	26	28	31				
22	1SV22IS022	KUNDANA B S	12	14	12	12	14	6	6	8	9	8	9	24	10	28	7	7	7	7	27	30	21	22	25				
23	1SV22IS023	KUSUMA K B	14	15	14	14	15	7	7	8	9	8	10	25	10	29	7	7	7	7	29	31	22	24	27				
24	1SV22IS024	LAKSHMI K M	14	15	14	14	15	7	7	8	9	8	8	23	10	28	7	7	7	7	29	31	22	24	27				
25	1SV22IS025	LOHITH C	0	15	11	0	15	5	6	8	9	8	10	25	10	30	8	8	8	8	16	32	21	24	23				
26	1SV22IS026	MANU NAIK K	10	9	9	10	9	5	4	8	7	8	8	21	10	23	6	6	6	6	24	22	19	18	21				
27	1SV22IS027	MEGHA K E	8	11	9	8	11	5	4	8	9	8	10	25	10	32	8	8	8	8	24	28	21	22	24				
28	1SV22IS028	NITHIN T L	13	10	9	13	10	4	5	8	7	8	8	21	10	30	8	8	8	8	29	25	20	21	23				

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*Principal*  
**PRINCIPAL**  
**SIET. TUMKUR.**

29	1SV22IS029	PRARTHANA P	13	9	12	13	9	6	6	8	9	8	9	25	10	28	7	7	7	7	28	25	21	22	24
30	1SV22IS030	PRIYA R	12	11	14	12	11	7	7	8	9	8	8	23	10	22	6	6	6	6	26	26	21	21	23
31	1SV22IS031	PURUSHOTHAM	13	14	13	13	14	6	7	8	9	8	9	24	10	23	6	6	6	6	27	29	20	22	24
32	1SV22IS032	RAJESWARI	15	15	15	15	15	7	8	8	9	8	9	24	10	27	7	7	7	7	30	31	22	24	27
33	1SV22IS033	RAKESH R	14	15	14	14	15	7	7	8	9	8	10	25	10	41	10	10	10	10	32	34	25	27	30
34	1SV22IS034	RAKSHITHA C R	0	13	8	0	13	4	4	7	8	7	8	20	10	18	5	5	5	5	12	26	16	17	17
35	1SV22IS035	RANJITHA A M	15	15	15	15	15	7	8	8	9	8	10	25	10	27	7	7	7	7	30	31	22	25	27
36	1SV22IS036	ROHITH M G-	11	11	9	11	11	4	5	8	9	8	8	23	10	20	5	5	5	5	24	25	17	18	21
37	1SV22IS038	SANJAYKUMAR-	14	12	8	14	12	4	4	8	9	8	10	25	10	19	5	5	5	5	27	26	17	19	22
38	1SV22IS039	SHAMANTH R	12	11	12	12	11	6	6	8	9	8	10	25	10	29	7	7	7	7	27	27	21	23	25
39	1SV22IS040	SINDHU M	0	11	5	0	11	3	2	8	9	8	8	23	10	29	7	7	7	7	15	27	18	17	20
40	1SV22IS041	SOMANATH	0	8	3	0	8	2	1	8	9	8	9	24	10	20	5	5	5	5	13	22	15	15	16
41	1SV22IS042	SUPRIYA S N	9	14	10	9	14	5	5	8	8	8	8	22	10	18	5	5	5	5	22	27	18	18	21
42	1SV22IS043	SURAJ B V	14	15	15	14	15	7	8	8	9	8	9	24	10	33	8	8	8	8	30	32	23	25	28
43	1SV22IS044	TRIVENI M	13	12	14	13	12	7	7	8	9	8	9	24	10	27	7	7	7	7	28	28	22	23	25
44	1SV22IS045	VAISHNAVI P	0	12	8	0	12	4	4	8	7	8	8	21	10	27	7	7	7	7	15	26	19	19	20
45	1SV22IS046	VASU M S	7	11	11	7	11	5	6	8	7	8	8	21	10	26	7	7	7	7	22	25	20	21	22
46	1SV22IS047	YUVARAJ K B-	15	15	14	15	15	7	7	8	8	8	8	22	10	26	7	7	7	7	30	30	22	22	26
47	1SV20IS007	NAYANA S S	0	11	12	0	11	6	6	8	7	8	8	21	10	33	8	8	8	8	16	26	22	22	22
48	1SV21IS020	MEGHANA H R	0	9	14	0	9	7	7	8	9	8	9	24	10	27	7	7	7	7	15	25	22	23	21
49	LE1	PUNITH K S	12	6	14	12	6	7	7	8	9	8	9	24	10	26	7	7	7	7	27	22	22	23	23
50	LE2	S BASAVARAJ	11	11	12	11	11	6	6	8	9	8	8	23	10	30	8	8	8	8	27	28	22	22	24
51	LE3	ARCHANA H S	10	0	11	10	0	5	6	8	7	8	8	21	10	18	5	5	5	5	23	12	18	19	18
52	LE4	U PRUTHVI	8	5	11	8	5	6	5	8	8	8	8	22	10	28	7	7	7	7	23	20	21	20	21

24.06	26.52	19.94	20.79
58.68%	64.68%	64.33%	64.96%

*N. Srinivas Kumar*  
**PRINCIPAL**  
**SIET. TUMKUR.**



## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### COURSE OUTCOME

- C01:** Explain the structure and functionality of operating system.
- C02:** Apply appropriate CPU scheduling algorithms for the given problem..
- C03:** Analyse the various techniques for process synchronization and deadlock handling.
- C04:** Apply the various techniques for memory management.
- C05:** Explain file and secondary storage management strategies.
- C06:** Describe the need for information protection mechanisms.

### 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.

**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.

<b>COLLEGE</b>	<b>SHRIDEVI INSTITUTE OF ENGINEERING &amp; TECHNOLOGY</b>														
<b>FACULTY NAME</b>	<b>Dr. Charan K V</b>														
<b>BRANCH</b>	<b>ISE</b>			<b>ACADEMIC YEAR</b>				<b>2023-24</b>							
<b>COURSE</b>	<b>B.E</b>	<b>SEMESTER</b>			<b>III</b>		<b>SECTION</b>								
<b>SUBJECT</b>	<b>OPERATING SYSTEMS</b>						<b>SUBJECT CODE</b>			<b>BCS303</b>					
<b>CO &amp; PO MAPPING</b>															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	3	2	3	1	3			2	1	1	1	2	3	2	3
<b>CO2</b>	3	3	3	1	1			2	1	1	1	2	3	3	3
<b>CO3</b>	3	2	2	1	1			2	1	1	1	2	3	2	2
<b>CO4</b>	3	2	2	1	1			2	1	1	1	2	3	2	2
<b>CO5</b>	3	2	1	1	1			1	1	1	1	2	3	2	1
<b>CO6</b>	3	2	1	1	1			1	1	1	1	2	3	2	1
<b>AVERAGE</b>	3	2.16	2	1	1.33			1.66	1	1	1	2	3	2.16	2
<b>OVERALL MAPPING OF SUBJECT</b>												<b>1.84</b>			

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PS03
CO1	0.28	0.8565	0.571	0.857	0.2855	0.8565			0.571	0.2855	0.2855	0.2855	0.571	0.28
CO2	0.24	0.7251	0.725	0.725	0.2417	0.2417			0.4834	0.2417	0.2417	0.2417	0.4834	0.24
CO3	0.28	0.8697	0.58	0.58	0.2899	0.2899			0.5798	0.2899	0.2899	0.2899	0.5798	0.28
CO4	0.28	0.8697	0.58	0.58	0.2899	0.2899			0.5798	0.2899	0.2899	0.2899	0.5798	0.28
	0.25	0.7782	0.519	0.259	0.2594	0.2594			0.2594	0.2594	0.2594	0.2594	0.5188	0.25
	0.25	0.7782	0.519	0.259	0.2594	0.2594			0.2594	0.2594	0.2594	0.2594	0.5188	0.25
AVERAGE	0.265	0.817	1.545	0.558	0.272					1.4152	0.2725	1.2725	0.27245	0.544
FINAL ATTAINMENT LEVEL													1.68	

	PSO1	PSO2	PSO3
CO1	2	2	2
CO2	2	2	2
CO3	2	2	2
CO4	2	1	2
CO5	2	2	2
CO6	2	2	2
AVERAGE	2	2	2

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**PRINCIPAL**  
**SIET. TUMKUR.**





**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**COURSE OUTCOME**

- CO 1.** Explain different data structures and their applications.
- CO 2.** Apply Arrays, Stacks and Queue data structures to solve the given problems.
- CO 3.** Use the concept of linked list in problem solving.
- CO 4.** Develop solutions using trees and graphs to model the real-world problem.
- CO 5.** Explain the advanced Data Structures concepts such as Hashing Techniques and Optimal Binary Search Trees.

**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. VENUGOPAL D														
BRANCH		ISE			ACADEMIC YEAR				2023-24							
COURSE	B.E	SEMESTER			III		SECTION									
SUBJECT	DATA STRUCTURES AND APPLICATIONS					SUBJECT CODE				BCS304						
<b>CO &amp; PO MAPPING</b>																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	
CO1	2		3									2	2	1	1	
CO2	2		3	2								2	2	1	1	
CO3	3		2									2	2	1	1	
CO4	3		2									2	2	1	1	
CO5	3		2									2	1	1	1	
AVERAGE	2.6		2.4	2								2	1.8	1	2.6	
<b>OVERALL MAPPING OF SUBJECT</b>												1.96				

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	62	1.24		1.86									1.24	1.24	0.62	0.62
CO2	54	1.08		1.62	1.08								1.08	1.08	0.54	0.54
CO3	51	1.53		1.02									1.02	1.02	0.51	0.51
CO4	46	1.38		0.92									0.92	0.92	0.46	0.46
CO5	46	1.38		0.92									0.92	0.46	0.46	0.46
AVERAGE		1.32		1.27	1.08								1.04	0.94	0.52	1.32
<b>FINAL ATTAINMENT LEVEL</b>													1.03			

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*Nanda Kumari*  
**PRINCIPAL**  
**SIET. TUMKUR.**

**III SEM (USE)**

Data Structures and its Applications		BCS304					2023-2024					NAME OF THE STAFF : Venugopal D																
Roll No.	USN	Name	IA MARKS					T3	ASSIGNMENT 20 + SEMINAR 2					SEE(50)	FINAL					TOTAL AVERAGE								
			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	CO1-38	CO2-28		CO3-28	CO4-28	CO5-28					
1	ISV22IS001	AKASH MALAPPA	17	19	17	17	10	9	10	7	8	8	8	7	7	33	6.60	6.60	6.60	6.60	6.60	6.60	32	25	24	24	21	25
2	ISV22IS002	AMULIYA S	12	13	10	12	7	6	5	5	7	8	7	8	7	21	4.20	4.20	4.20	4.20	4.20	4.20	23	19	17	17	16	19
3	ISV22IS003	ANUPAMA V	17	20	17	17	10	10	10	7	7	7	8	8	8	27	5.40	5.40	5.40	5.40	5.40	5.40	29	22	23	23	20	24
4	ISV22IS004	AVINASH KADAPPA PARAGODDAR	10	18	15	10	10	8	7	8	8	7	8	7	8	30	6.00	6.00	6.00	6.00	6.00	6.00	24	23	22	20	22	22
5	ISV22IS005	BINDHUSHREE B R	12	12	11	12	6	6	6	5	7	7	7	7	8	27	5.40	5.40	5.40	5.40	5.40	5.40	24	18	18	18	18	20
6	ISV22IS006	CM MANASA	0	15	7	0	7	8	4	3	8	8	8	8	8	9	1.80	1.80	1.80	1.80	1.80	1.80	10	17	18	14	13	14
7	ISV22IS007	CHANDANAS	0	11	9	0	5	6	5	4	8	7	7	7	7	18	3.60	3.60	3.60	3.60	3.60	3.60	12	16	17	16	15	15
8	ISV22IS008	DARSHAN H G	11	17	0	11	10	7	0	0	7	7	7	7	8	18	3.60	3.60	3.60	3.60	3.60	3.60	22	21	18	11	12	16
9	ISV22IS009	DHANUSH U	0	19	11	0	10	9	6	6	5	8	8	8	8	38	7.60	7.60	7.60	7.60	7.60	7.60	16	26	25	22	21	22
10	ISV22IS010	DRUTHIK N	15	20	13	15	10	10	10	6	7	8	8	7	7	29	5.80	5.80	5.80	5.80	5.80	5.80	29	24	23	19	20	23
11	ISV22IS011	FIROZ NOUSHAD	19	17	15	19	10	7	7	8	7	7	7	8	8	18	3.60	3.60	3.60	3.60	3.60	3.60	27	21	21	21	21	20
12	ISV22IS012	G K SHARATH KUMAR	16	19	9	16	10	9	5	4	7	7	8	7	8	18	3.60	3.60	3.60	3.60	3.60	3.60	27	21	21	21	16	20
13	ISV22IS013	G VISHAL	11	17	7	11	10	7	4	3	8	7	7	7	7	8	1.60	1.60	1.60	1.60	1.60	1.60	21	19	16	13	14	17
14	ISV22IS014	GANESH G	11	17	8	11	10	7	4	4	7	7	7	7	7	11	2.20	2.2	2.2	2.2	2.2	2.2	20	19	16	13	14	17
15	ISV22IS015	HARSH ANAND	12	15	16	12	7	8	8	8	8	8	8	8	7	33	6.60	6.6	6.6	6.6	6.6	6.6	27	22	22	23	23	25
16	ISV22IS016	HITHYSH D	4	8	9	4	4	4	5	4	7	6	7	7	7	22	4.40	4.4	4.4	4.4	4.4	4.4	15	14	15	16	15	15
17	ISV22IS017	JNANESH S	0	13	4	0	6	6	2	2	8	7	7	7	7	12	2.40	2.4	2.4	2.4	2.4	2.4	9	14	14	15	11	13
18	ISV22IS018	KALYANI SHARATH	19	20	18	19	10	10	10	10	8	8	7	7	7	38	7.60	7.6	7.6	7.6	7.6	7.6	35	25	25	25	23	26
19	ISV22IS019	KARTHIK N GANIGA	13	17	11	13	10	7	6	5	8	8	8	8	7	24	4.80	4.8	4.8	4.8	4.8	4.8	26	23	20	18	17	21
20	ISV22IS020	KOMALA BOMMAVI	12	18	11	12	10	8	5	6	8	8	7	7	7	22	4.40	4.4	4.4	4.4	4.4	4.4	24	22	19	16	17	20
21	ISV22IS021	KOUSHIK N S	17	18	11	12	10	8	6	5	8	7	7	7	7	30	6.00	6	6	6	6	6	31	23	21	19	18	22
22	ISV22IS022	KUNDANNA B S	12	13	12	12	6	7	6	6	7	8	8	7	7	29	5.80	5.8	5.8	5.8	5.8	5.8	25	20	21	19	19	21
23	ISV22IS023	KUSUMA K B	10	17	14	10	10	7	7	7	7	7	7	7	7	27	5.40	5.4	5.4	5.4	5.4	5.4	22	22	19	19	20	21
24	ISV22IS024	LAKSHMI K M	15	16	12	15	10	6	6	6	8	7	7	7	7	42	8.40	8.4	8.4	8.4	8.4	8.4	31	25	21	21	21	24
25	ISV22IS025	LOHITH C	0	18	9	0	10	9	5	5	8	8	8	8	7	34	6.80	6.8	6.8	6.8	6.8	6.8	15	25	23	19	18	20
26	ISV22IS026	MANU NAIK K	15	19	10	15	10	8	5	4	8	8	8	8	7	18	3.60	3.6	3.6	3.6	3.6	3.6	27	22	20	17	16	20
27	ISV22IS027	MEGHA KE	11	14	3	11	7	7	2	1	8	8	7	7	7	23	4.60	4.6	4.6	4.6	4.6	4.6	24	20	19	14	13	18
28	ISV22IS028	NITHIN T L	15	16	13	15	8	8	6	7	7	7	7	7	8	15	3.00	3	3	3	3	3	25	18	18	17	18	19
29	ISV22IS029	PRARTHANA P	11	15	11	11	7	8	5	6	8	7	7	7	8	20	4.00	4	4	4	4	4	23	18	18	17	18	19
30	ISV22IS030	PRYAR R	11	17	16	11	10	7	8	8	8	7	7	7	8	18	3.60	3.6	3.6	3.6	3.6	3.6	22	22	18	16	18	19
31	ISV22IS031	PURUSHOTHAMA K B	10	18	14	10	10	8	7	7	8	8	8	8	7	18	3.60	3.6	3.6	3.6	3.6	3.6	22	22	20	18	20	20
32	ISV22IS032	RAJESWARU KUMAR	19	20	20	19	10	10	10	10	10	10	10	10	10	40	8.00	8	8	8	8	8	34	25	26	26	26	27
33	ISV22IS033	RAKESH R	19	20	20	19	10	10	10	10	10	10	10	10	10	24	4.80	4.8	4.8	4.8	4.8	4.8	31	23	23	23	23	24
34	ISV22IS034	RAKSHITHA C R	6	5	5	6	3	2	2	3	7	7	8	8	8	18	3.60	3.6	3.6	3.6	3.6	3.6	17	14	14	14	15	14
35	ISV22IS035	RANJITHA A M	19	20	19	19	10	10	10	10	9	8	7	8	8	31	6.20	6.2	6.2	6.2	6.2	6.2	33	23	24	24	23	26
36	ISV22IS036	ROHITH M G	9	16	15	9	10	6	7	8	7	7	7	7	7	21	4.20	4.2	4.2	4.2	4.2	4.2	20	21	17	18	19	19
37	ISV22IS038	SANJAYKUMAR	19	17	13	19	10	7	6	7	7	8	8	8	7	41	8.20	8.2	8.2	8.2	8.2	8.2	35	26	23	21	21	26

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*Principal*  
**PRINCIPAL**  
 SIET, TUMKUR.

38	1SV22IS039	SIAMANTH R PATIL	12	17	14	12	10	7	7	7	8	8	7	7	7	7	27	5.40	5.4	5.4	5.4	5.4	5.4	5.4	5.4	25	23	19	19	19	19	21																								
39	1SV22IS040	SINDHU M	0	12	8	0	6	6	4	4	8	7	7	7	7	7	15	3.00	3	3	3	3	3	3	3	11	16	16	14	14	14	14																								
40	1SV22IS041	SCMANATH	6	14	0	6	7	7	0	0	7	7	6	7	7	8	1.60	1.6	1.6	1.6	1.6	1.6	1.6	1.6	15	16	15	9	9	9	12																									
41	1SV22IS042	SUPRIYA S N	7	7	8	7	4	3	4	4	8	8	8	8	8	19	3.80	3.8	3.8	3.8	3.8	3.8	3.8	3.8	19	16	15	16	16	16	16																									
42	1SV22IS043	SURAJ B V	17	19	19	17	10	9	10	9	8	8	8	7	7	39	7.80	7.8	7.8	7.8	7.8	7.8	7.8	33	26	25	25	24	24	26																										
43	1SV22IS044	TRIVENI M	13	14	11	13	7	7	6	5	8	7	7	7	7	25	5.00	5	5	5	5	5	5	5	26	19	19	18	17	17	20																									
44	1SV22IS045	VAISHNAVI P	0	15	12	0	7	8	6	6	6	7	7	7	7	13	2.60	2.6	2.6	2.6	2.6	2.6	2.6	10	17	18	16	17	17	20																										
45	1SV22IS046	VASU M S	15	15	9	15	7	8	5	4	8	7	7	7	7	25	5.00	5	5	5	5	5	5	28	19	20	17	16	16	20																										
46	1SV22IS047	YUVARAJ K B	15	18	9	15	10	8	4	5	7	7	8	8	8	29	5.80	5.8	5.8	5.8	5.8	5.8	5.8	28	23	22	18	19	19	22																										
47	1SV20IS007	NAVANASS	0	19	15	0	10	9	7	8	8	7	7	7	7	25	5.00	5	5	5	5	5	5	13	22	21	19	20	20	19																										
48	1SV21IS020	MEGHANAH R	16	14	9	16	7	7	5	4	7	6	6	7	7	26	5.20	5.2	5.2	5.2	5.2	5.2	5.2	28	18	18	17	16	16	20																										
49	1SV21IS400	ARCHANAH S	18	10	0	18	5	5	0	0	7	7	7	7	8	24	4.80	4.8	4.8	4.8	4.8	4.8	4.8	30	17	17	12	13	13	18																										
50	1SV21IS401	PUNEETH K S	14	17	9	14	10	7	5	4	8	7	7	7	7	13	2.60	2.6	2.6	2.6	2.6	2.6	2.6	25	20	17	15	14	14	18																										
51	1SV21IS402	BASAVARAJU	10	17	7	10	10	7	4	3	7	7	7	7	6	0	0.00	0	0	0	0	0	0	17	17	14	10	10	10	14																										
52	1SV21IS403	PRUTHIVI V	11	15	11	11	7	8	6	5	8	8	8	8	8	15	3.00	3	3	3	3	3	3	22	18	19	17	16	16	18																										
																											23.45	20.47	19.47	17.66	17.47																					62%	54%	51%	46%	46%

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**PRINCIPAL**  
**SIET. TUMKUR.**



**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**COURSE OUTCOME**

- CO1.** Acquire fundamental understanding of the core concepts in automata theory and Theory of Computation
- CO2.** Design and develop lexical analyzers, parsers and code generators
- CO3.** Design Grammars and Automata (recognizers) for different language classes and become knowledgeable about restricted models of Computation and their relative powers.
- CO4.** Acquire fundamental understanding of the structure of a Compiler and Apply concepts automata theory and Theory of Computation to design Compilers.
- CO5.** Design computations models for problems in Automata theory and adaption of such model in the field of compilers.

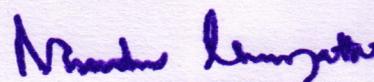
**PROGRAM OUTCOMES**

- 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. VENUGOPAL D														
BRANCH	ISE			ACADEMIC YEAR				2023-24							
COURSE	B.E	SEMESTER			V	SECTION									
SUBJECT	AUTOMATA THEORY & COMPLIER DESIGN					SUBJECT CODE			21CS51						
<b>CO &amp; PO MAPPING</b>															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	3	2								2	3	1	
CO2	2	2	3									2	2	2	
CO3	2	2	2	2								1	2	2	
CO4	1	3	1									2	2	2	
CO5	2	3	2									3	2	2	
AVERAGE	2	2.6	2.2	2								2	2.2	1.8	
<b>OVERALL MAPPING OF SUBJECT</b>												2.11			

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	67.7	2.03	2.03	2.03	1.35								1.35	2.03	0.67	
CO2	63.4	1.26	1.26	1.90									1.26	1.26	1.26	
CO3	63.1	1.26	1.26	1.26	1.26								0.63	1.26	1.26	
CO4	65.1	0.65	1.95	0.65									1.30	1.30	1.30	
CO5	65	1.30	1.95	1.30									1.95	1.30	1.30	
AVERAGE	1.3			1.42	1.30								1.29	1.43	1.15	
<b>FINAL ATTAINMENT LEVEL</b>													1.31			



  
**PRINCIPAL**  
**SIET, TUMKUR.**

### V SEM SECTION (ISE)

Automata Theory & Compiler I		21CS54			2023-2024										EVEN		NAME OF THE STAFF					Mr. Venugopal D					TOTAL AVG
Roll No.	USN	Name	IA MARKS			T1	T2		T3		Assign 10 + Seminar 20 = 30/5					External Marks					FINAL						
			T1 (20)	T2 (20)	T3 (20)	CO1- 20	CO2- 15	CO3- 15	CO4- 15	CO5- 15	CO1- 6	CO2- 6	CO3- 6	CO4- 6	CO5- 6	SEE (50)	CO1- 10	CO2- 10	CO3- 10	CO4- 10	CO5- 10	CO1-36	CO2-31	CO3-31	CO4-31	CO5-31	
1	1SV21IS001	ABDUL HADY	20	18	19	20	9	9	10	9	5	6	6	6	6	30	6	6	6	6	6	31	21	21	22	21	23.2
2	1SV21IS002	ABHIJITH B N	18	18	20	18	9	9	10	10	6	6	6	6	6	30	6	6	6	6	6	30	21	21	22	22	23.2
3	1SV21IS003	ABHISHEK BASA	AB	19	19	0	9	10	10	9	6	6	6	6	6	24	5	5	5	5	5	11	20	21	21	20	18.4
4	1SV21IS004	DAKSHITH S	20	20	20	20	10	10	10	10	6	6	6	6	6	37	7	7	7	7	7	33	23	23	23	23	25.4
5	1SV21IS005	DANESHWARI	20	20	20	20	10	10	10	10	6	6	6	6	6	28	6	6	6	6	6	32	22	22	22	22	23.6
6	1SV21IS006	DEEKSHA K	20	20	20	20	10	10	10	10	6	6	6	6	6	21	4	4	4	4	4	30	20	20	20	20	22.2
7	1SV21IS007	DEEPIKA B M	20	20	20	20	10	10	10	10	6	6	6	6	6	27	5	5	5	5	5	31	21	21	21	21	23.4
8	1SV21IS008	DHISHANTH G PA	15	17	19	15	9	8	9	10	6	6	6	6	6	31	6	6	6	6	6	27	21	20	21	22	22.4
9	1SV21IS009	GAGANA S	20	19	20	20	9	10	10	10	6	6	6	6	6	33	7	7	7	7	7	33	22	23	23	23	24.4
10	1SV21IS010	H M PRAJWAL KU	20	20	20	20	10	10	10	10	6	6	6	6	6	26	5	5	5	5	5	31	21	21	21	21	23.2
11	1SV21IS011	HARSHITHA P	20	20	19	20	10	10	9.5	9.5	6	6	6	6	6	24	5	5	5	5	5	31	21	21	20	20	22.6
12	1SV21IS012	HIMAVANTH K	19	19	15	19	9	10	7.5	7.5	6	6	6	6	6	18	4	4	4	4	4	29	19	20	17	17	20.2
13	1SV21IS013	KANTHARAJU V	AB	16	19	0	8	8	9.5	9.5	6	6	6	6	6	28	6	6	6	6	6	12	20	20	21	21	18.6
14	1SV21IS014	KEERTHANA K S	20	17	20	20	9	8	10	10	6	6	6	6	6	30	6	6	6	6	6	32	21	20	22	22	23.4
15	1SV21IS015	KRISHNAMURTH	17	16	20	17	8	8	10	10	6	6	6	6	6	31	6	6	6	6	6	29	20	20	22	22	22.8
16	1SV21IS016	MANOJ R	AB	18	14	0	9	9	7	7	6	6	6	6	6	18	4	4	4	4	4	10	19	19	17	17	16.0
17	1SV21IS017	MANOJ T	AB	16	14	0	8	8	7	7	6	6	6	6	6	14	3	3	3	3	3	9	17	17	16	16	14.8
18	1SV21IS018	MANOJA S S	AB	12	8	0	6	6	4	4	6	6	6	6	6	8	2	2	2	2	2	8	14	14	12	12	11.6
19	1SV21IS019	MARUTHI G N	AB	14	15	0	7	7	7.5	7.5	6	6	6	6	6	10	2	2	2	2	2	8	15	15	16	16	13.8
20	1SV21IS021	NAVYA SHREE K	19	16	20	19	8	8	10	10	6	6	6	6	6	33	7	7	7	7	7	32	21	21	23	23	23.6
21	1SV21IS023	NIRNAY K	AB	13	AB	0	0	0	0	0	6	6	6	6	6	11	2	2	2	2	2	8	8	8	8	8	8.2
22	1SV21IS024	PALLAVI D	18	20	20	18	10	10	10	10	6	6	6	6	6	34	7	7	7	7	7	31	23	23	23	23	24.4
23	1SV21IS025	RAHUL V	AB	15	19	0	8	7	9.5	9.5	6	6	6	6	6	26	5	5	5	5	5	11	19	18	21	21	18.0
24	1SV21IS026	RAKSHITHA L	20	17	20	20	9	8	10	10	6	6	6	6	6	22	4	4.4	4.4	4.4	4.4	30	19	18	20	20	21.8
25	1SV21IS027	RANGANATHA G	15	17	20	15	9	8	10	10	6	6	6	6	6	38	8	7.6	7.6	7.6	7.6	29	23	22	24	24	24.0
26	1SV21IS028	SHREEVATHSA M	20	17	19	20	9	8	9.5	9.5	6	6	6	6	6	40	8	8	8	8	8	34	23	22	24	24	25.2
27	1SV21IS029	SOUNDARYA R	18	19	20	18	9	10	10	10	6	6	6	6	6	33	7	6.6	6.6	6.6	6.6	31	22	23	23	23	24.0
28	1SV21IS030	SYED SUHAIL AH	18	17	16	18	9	8	8	8	6	6	6	6	6	40	8	8	8	8	8	32	23	22	22	22	24.2
29	1SV21IS031	THARUN M S	14	18	19	14	9	9	9.5	9.5	6	6	6	6	6	18	4	3.6	3.6	3.6	3.6	24	19	19	19	19	19.8
30	1SV21IS032	THEJASWINI M	20	19	20	20	9.5	9.5	10	10	6	6	6	6	6	34	7	6.8	6.8	6.8	6.8	33	22	22	23	23	24.6
31	1SV21IS033	VARSHA K V	AB	13	19	0	6.5	6.5	9.5	9.5	6	6	6	6	6	27	5	5.4	5.4	5.4	5.4	11	18	18	21	21	17.8
32	1SV21IS034	VARSHINIMEGHA	13	15	19	13	7.5	7.5	9.5	9.5	6	6	6	6	6	36	7	7.2	7.2	7.2	7.2	26	21	21	23	23	22.6
33	1SV21IS035	VINUTHA H N	19	19	20	19	9.5	9.5	10	10	6	6	6	6	6	26	5	5.2	5.2	5.2	5.2	30	21	21	21	21	22.8
34	1SV21IS036	VISHNU R	20	20	20	20	10	10	10	10	6	6	6	6	6	27	5	5.4	5.4	5.4	5.4	31	21	21	21	21	23.4
35	1SV21IS037	YASHAS D R	20	19	20	20	9.5	9.5	10	10	6	6	6	6	6	31	6	6.2	6.2	6.2	6.2	32	22	22	22	22	24.0

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PRINCIPAL  
SLET, TUMKUR.

36	1SV22IS400	CHETHAN V	AB	16	20	0	8	8	10	10	6	6	6	6	6	29	6	5.8	5.8	5.8	5.8	12	20	20	22	22	19.0								
37	1SV22IS401	HONNESH KUMA	16	16	13	16	8	8	6.5	6.5	6	6	6	6	6	29	6	5.8	5.8	5.8	5.8	28	20	20	18	18	20.8								
38	1SV22IS402	NAVEEN D R	12	16	16	12	8	8	8	8	6	6	6	6	6	19	4	3.8	3.8	3.8	3.8	22	18	18	18	18	18.6								
39	1SV22IS403	SWETHA N	9	AB	11	0	0	0	5.5	5.5	6	6	6	6	6	13	3	2.6	2.6	2.6	2.6	9	9	9	14	14	10.8								
																					24.4	19.6	19.6	20.2	20.2										
																					67.7%	63.4%	63.1%	65.1%	65.0%										

(11)

*Nimish Kumar*  
**PRINCIPAL**  
**SIET. TUMKUR.**



## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### COURSE OUTCOME

- C01.** Learn the basic needs of communication system.
- C02.** Interpret the communication challenges and its solution.
- C03.** Identify and organize the communication system network components.
- C04.** Design communication networks for user requirements.

### 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.

<b>COLLEGE</b>		<b>SHRIDEVI INSTITUTE OF ENGINEERING &amp; TECHNOLOGY</b>													
<b>FACULTY NAME</b>		Mrs. LAVANYA K													
<b>BRANCH</b>		<b>ISE</b>			<b>ACADEMIC YEAR</b>				<b>2023-24</b>						
<b>COURSE</b>	<b>B.E</b>	<b>SEMESTER</b>			<b>V</b>	<b>SECTION</b>									
<b>SUBJECT</b>	<b>COMPUTER NETWORKINGS</b>					<b>SUBJECT CODE</b>			<b>21CS52</b>						
<b>CO &amp; PO MAPPING</b>															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	2	2	3	2	3	3	1	1	2	3	2	2	3	2	3
<b>CO2</b>	2	2	3	1	3	2	1	1	2	3	2	2	3	3	2
<b>CO3</b>	2	3	3	2	3	3	1	1	3	3	3	2	3	3	2
<b>CO4</b>	2	3	3	2	3	3	1	1	2	3	2	2	3	3	3
<b>AVERAGE</b>	2	2.5	3	1.75	3	2.75	1	1	2.25	3	2.25	2	3	2.75	2.5
<b>OVERALL MAPPING OF SUBJECT</b>												2.21			

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	67	1.34	1.34	2.01	1.34	2.01	2.01	0.67	0.67	1.34	2.01	1.34	1.34	2.01	1.34	2.01
<b>CO2</b>	76	1.52	1.52	2.28	0.76	2.28	1.52	0.76	0.76	2.28	2.28	1.52	1.52	2.28	2.28	1.52
<b>CO3</b>	68	1.36	2.04	2.04	1.36	2.04	2.04	0.68	0.68	2.04	2.04	2.04	1.36	2.04	2.04	1.36
<b>CO4</b>	70	1.4	2.1	2.1	1.4	2.1	2.1	0.70	0.70	1.4	2.1	1.4	1.4	2.1	2.1	2.1
<b>AVERAGE</b>		1.41	1.75	2.11	1.22	2.11	1.92	0.70	0.70	1.77	2.11	1.58	1.41	2.11	1.41	1.75
<b>FINAL ATTAINMENT LEVEL</b>													1.61			

**PRINCIPAL**  
 SIE.T. TUMKUR.

Roll No.	USN	Name	1CS5		Sem: V	023-2	ODD	FACULTY : Lavanya K														TO TA L			
			Computer Networki			T1	T2		T3	SIGNMENT 10 + LAB				EXTERNAL				Final							
			T1	T2	T3	CO1-20	CO2-20	CO3-10	CO4-10	CO1-7	CO2-8	CO3-7	CO4-8	LAB	ASS	SEE(50)	CO1-13	CO2-12	CO3-13	CO4-12	CO1-40		CO2-40	CO3-30	CO4-30
1	1SV21IS001	ABDUL HADY	18	16	16	18	16	8	8	7	8	7	8	20	10	28	7	7	7	7	32	31	22	23	27
2	1SV21IS002	ABHIJITH B N	18	17	20	18	17	10	10	7	8	7	7	19	10	32	8	8	8	8	33	33	25	25	29
3	1SV21IS003	ABHISHEK BA	0	15	19	0	15	10	9	7	7	7	8	19	10	24	6	6	6	6	13	28	23	23	22
4	1SV21IS004	DAKSHITH S	19	20	20	19	20	10	10	7	8	7	8	20	10	34	9	9	9	9	35	37	26	27	31
5	1SV21IS005	SOMANAGOW DA	16	20	19	16	20	10	9	7	7	7	8	19	10	25	6	6	6	6	29	33	23	23	27
6	1SV21IS006	DEEKSHA K	19	19	20	19	19	10	10	7	8	7	8	20	10	26	7	7	7	7	33	34	24	25	29
7	1SV21IS007	DEEPIKA B M	19	19	20	19	19	10	10	7	8	7	8	20	10	27	7	7	7	7	33	34	24	25	29
8	1SV21IS008	DHISHANTH G	0	18	20	0	18	10	10	7	8	7	8	20	10	34	9	9	9	9	16	35	26	27	26
9	1SV21IS009	GAGANA S	17	18	20	17	18	10	10	7	8	7	8	20	10	26	7	7	7	7	31	33	24	25	28
10	1SV21IS010	H M PRAJWAL	19	20	20	19	20	10	10	7	7	7	8	19	10	39	10	10	10	10	36	37	27	28	32
11	1SV21IS011	HARSHITHA P	18	20	19	18	20	10	9	7	8	7	8	20	10	36	9	9	9	9	34	37	26	26	31
12	1SV21IS012	HIMAVANTH K	12	17	15	12	17	7	8	7	6	6	6	15	10	14	4	4	4	4	23	27	17	18	21
13	1SV21IS013	KANTHARAJU	18	17	0	18	17	0	0	7	7	7	8	19	10	28	7	7	7	7	32	31	14	15	23
14	1SV21IS014	KEERTHANA K	19	20	20	19	20	10	10	7	8	7	8	20	10	31	8	8	8	8	34	36	25	26	30
15	1SV21IS015	KRISHNAMUR	12	18	20	12	18	10	10	7	8	7	7	19	10	21	5	5	5	5	24	31	22	22	25
16	1SV21IS016	MANOJ R	0	16	14	0	16	7	7	7	7	7	8	19	10	11	3	3	3	3	10	26	17	18	18
17	1SV21IS017	MANOJ T	17	17	0	17	17	0	0	7	8	7	7	19	10	18	5	5	5	5	29	30	12	12	20
18	1SV21IS018	MANOJA S S	0	9	15	0	9	7	8	7	7	7	7	19	10	23	6	6	6	6	13	22	20	21	19
19	1SV21IS019	MARUTHI G N	16	13	0	16	13	0	0	7	7	7	8	19	10	13	3	3	3	3	26	23	10	11	18
21	1SV21IS021	NAVYA SHREE	19	18	20	19	18	10	10	7	8	7	8	20	10	29	7	7	7	7	33	33	24	25	29
22	1SV21IS022	NINGAIAH															0	0	0	0	0	0	0	0	0
23	1SV21IS023	NIRNAY K	16	11	0	16	11	0	0	7	7	7	7	18	10	2	1	1	1	1	24	19	8	8	14
24	1SV21IS024	PALLAVI D	16	20	19	16	20	10	9	7	8	7	8	20	10	38	10	10	10	10	33	38	27	27	31
25	1SV21IS025	RAHUL V	0	20	19	0	20	10	9	7	7	7	8	19	10	30	8	8	8	8	15	35	25	25	25
26	1SV21IS026	RAKSHITHA L	17	19	19	17	19	10	9	7	8	7	8	20	10	37	9	9	9	9	33	36	26	26	31
27	1SV21IS027	RANGANATHA	17	16	0	17	16	0	0	7	8	7	7	19	10	24	6	6	6	6	30	30	13	13	22
28	1SV21IS028	SHREEVATHS	18	20	17	18	20	10	7	7	8	7	8	20	10	31	8	8	8	8	33	36	25	23	29
29	1SV21IS029	SOUNDARYA I	18	19	20	18	19	10	10	7	8	7	8	20	10	23	6	6	6	6	31	33	23	24	28
30	1SV21IS030	SYED SUHAIL	14	19	17	14	19	10	7	7	8	7	7	19	10	18	5	5	5	5	26	32	22	19	24
31	1SV21IS031	THARUN M S	19	18	17	19	18	10	7	7	7	7	8	19	10	18	5	5	5	5	31	30	22	20	25
32	1SV21IS032	THEJASWINI M	16	18	20	16	18	10	10	7	7	7	8	19	10	18	5	5	5	5	28	30	22	23	25
33	1SV21IS033	VARSHA K V	17	20	20	17	20	10	10	7	8	7	8	20	10	18	5	5	5	5	29	33	22	23	26
34	1SV21IS034	VARSHINIMEG	19	19	20	19	19	10	10	7	8	7	8	20	10	33	8	8	8	8	34	35	25	26	30
35	1SV21IS035	VINUTHA H N	20	20	20	20	20	10	10	7	8	7	8	20	10	38	10	10	10	10	37	38	27	28	32
36	1SV21IS036	VISHNU R	19	20	20	19	20	10	10	7	8	7	8	20	10	32	8	8	8	8	34	36	25	26	30

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PRINCIPAL  
SLET TUMKUR

37	1SV21IS037	YASHAS D R	18	19	19	18	19	10	9	7	8	7	8	20	10	29	7	7	7	7	32	34	24	24	29
																					26.8	30.2	20.5	20.9	
																					67%	76%	68%	70%	

LATERAL ENTRY STUDENTS ISE																										
Roll No.	USN	Name	1CS3	Sem: IV	023-2	ODD	FACULTY : Lavanya k																			
			Computer Networki			T1	T2	T3	SIGNMENT 10 + LAB				EXTERNAL				Final				TO					
			T1	T2	T3	CO1-	CO	CO3-	CO4-	CO1-	CO2-	CO3-	CO4-	lab	ass	SEE(	CO1-	CO2-	CO3-	CO4-	CO1-	CO2-	CO3-	CO4-	TA	
1	1SV22IS400	CHETHAN V	14	16	0	14	16	0	0	7	7	7	8	19	10	36	9	9	9	9	30	32	16	17	24	
2	1SV22IS401	HONNESH KUN	13	17	0	13	17	0	0	7	7	7	8	19	10	20	5	5	5	5	25	29	12	13	20	
3	1SV22IS402	NAVEEN D R	15	14	17	15	14	10	7	7	7	7	8	19	10	21	5	5	5	5	27	26	22	20	24	
4	1SV22IS403	SWETHA N	11	17	0	11	17	0	0	7	6	6	6	15	10	24	6	6	6	6	24	29	12	12	19	
																					27	29	16	16		
																						66%	73%	52%	52%	

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S. T. LAKSHMI



## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### COURSE OUTCOME

- CO1:** Identify, analyze and define database objects, enforce integrity constraints on a database using RDBMS
- CO2:** Use Structured Query Language (SQL) for database manipulation and also demonstrate the basic of query evaluation.
- CO3:** Design and build simple database systems and relate the concept of transaction, concurrency control and recovery in database.
- CO4:** Develop application to interact with databases, relational algebra expression.
- CO5:** Develop applications using tuple and domain relation expression from queries.

**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

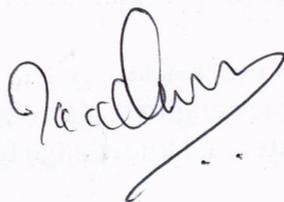
- PO1** Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
- PO2** Problem analysis: Identify, formulate, research literature, and analyze complex engineering 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.

<b>COLLEGE</b>		<b>SHRIDEVI INSTITUTE OF ENGINEERING &amp; TECHNOLOGY</b>													
<b>FACULTY NAME</b>		<b>Dr. Charan K V</b>													
<b>BRANCH</b>		<b>ISE</b>			<b>ACADEMIC YEAR</b>				<b>2023-24</b>						
<b>COURSE</b>	<b>B.E</b>	<b>SEMESTER</b>			<b>V</b>		<b>SECTION</b>			<b>B</b>					
<b>SUBJECT</b>	<b>DBMS</b>						<b>SUBJECT CODE</b>			<b>21CS53</b>					
<b>CO &amp; PO MAPPING</b>															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>CO1</b>	3	3	3	2								2	3	1	
<b>CO2</b>	2	2	3	1								2	2	2	
<b>CO3</b>	2	2	2	2								1	2	2	
<b>CO4</b>	1	3	1	2								2	2	2	
<b>CO5</b>	2	3	2	1								3	2	2	
<b>AVERAGE</b>	2	2.6	2.2	2								2	2.2	1.8	
<b>OVERALL MAPPING OF SUBJECT</b>												2.11			




**V SEM SECTION (ISE)**

Sub: DBMS

Roll No.	USN	Name	2ICSS3			2023-2024						NAME OF THE STAFF						Dr. Charan K V									
			IA MARKS			Assign 10 + Seminar 20 = 30/5			External Marks			Final			TOTAL AVG												
			T1	T2	T3	CO1-20	CO2-15	CO3-15	CO4-15	CO5-15	T3	CO1-6	CO2-6	CO3-6	CO4-6	CO5-6	SEE (50)	CO1-10	CO2-10	CO3-10	CO4-10	CO5-10	CO1-36	CO2-31	CO3-31	CO4-31	CO5-31
1	ISV21IS001	ABDUL HADY	15	15	20	15	7.5	10	9	5	6	6	6	6	6	6	26	5	6	6	6	25	20	20	22	21	21.4
2	ISV21IS002	ABHIJITH B N	17	16	20	17	8	10	10	6	6	6	6	6	6	19	4	6	6	6	6	27	20	20	22	22	22.2
3	ISV21IS003	ABHISHEK BASAVARAJ ARAL	16	20	20	17	8	10	10	6	6	6	6	6	6	32	6	5	5	5	5	12	20	21	21	20	18.7
4	ISV21IS004	DAKSHITH S	20	20	20	20	9	10	10	6	6	6	6	6	6	23	5	7	7	7	7	31	23	23	23	23	24.8
5	ISV21IS005	DANESHWARI	18	19	20	18	9.5	10	10	6	6	6	6	6	6	23	5	6	6	6	6	29	21	21	22	22	22.8
6	ISV21IS006	DEEKSHA K	20	20	20	20	10	10	10	6	6	6	6	6	6	18	4	4	4	4	4	30	20	20	20	20	22.1
7	ISV21IS007	DEEPIKA B M	20	19	19	20	10	10	10	6	6	6	6	6	6	28	6	5	5	5	5	32	21	21	21	21	23.4
8	ISV21IS008	DHISHANTH G PATEL	20	17	20	20	9	10	10	6	6	6	6	6	6	32	6	6	6	6	6	32	21	20	21	22	23.4
9	ISV21IS009	GAGANA S	17	16	20	17	8	10	10	6	6	6	6	6	6	28	6	7	7	7	7	32	22	23	23	23	24.2
10	ISV21IS010	H M PRAJWAL KUMAR	20	17	20	20	8.5	10	9.5	6	6	6	6	6	6	33	7	5	5	5	5	30	19	19	21	21	22.1
11	ISV21IS011	HARSHITHA P	20	17	20	20	8.5	10	8.5	7.5	6	6	6	6	6	26	5	5	5	5	5	31	19	19	21	20	22.2
12	ISV21IS012	HIMAVANTH K	14	13	17	14	9	10	8.5	8	9.5	6	6	6	6	24	5	4	4	4	4	25	19	20	18	17	19.6
13	ISV21IS013	KANTHARAJU V T	0	17	16	0	8.5	8.5	8	9.5	6	6	6	6	6	27	5	6	6	6	6	11	20	20	20	21	18.5
14	ISV21IS014	KEERTHANA K S	20	20	20	20	9	8	10	10	6	6	6	6	6	40	8	6	6	6	6	34	21	20	22	22	23.8
15	ISV21IS015	KRISHNAMURTHY P G	15	17	20	15	8.5	10	10	6	6	6	6	6	6	27	5	6	6	6	6	26	21	21	22	22	22.4
16	ISV21IS016	MANOJ R	0	15	16	0	7.5	7.5	8	7	6	6	6	6	6	9	2	4	4	4	4	8	17	17	17	19	15.2
17	ISV21IS017	MANOJ T	0	17	20	0	8.5	8.5	10	7	6	6	6	6	6	18	4	3	3	3	3	10	17	17	17	16	15.8
18	ISV21IS018	MANOJA S S	0	14	18	0	7	7	9	4	6	6	6	6	6	9	2	2	2	2	2	8	15	15	17	12	13.0
19	ISV21IS019	MARUTHI G N	0	12	20	0	6	6	10	7.5	6	6	6	6	6	18	4	2	2	2	2	10	14	14	18	16	14.2
20	ISV21IS021	NAVYA SHREE K S	18	18	20	18	9	9	10	10	6	6	6	6	6	33	7	7	7	7	7	31	22	22	23	23	23.8
21	ISV21IS023	NIRNAY K	0	10	17	0	0	0	0	0	6	6	6	6	6	10	2	2	2	2	2	8	8	8	8	8	8.2
22	ISV21IS024	PALLAVI D	0	10	17	0	5	8.5	10	6	6	6	6	6	6	37	7	7	7	7	7	13	18	18	21	23	18.6
23	ISV21IS025	RAHUL V	20	19	20	0	8	7	10	9.5	6	6	6	6	6	29	6	5	5	5	5	12	19	18	21	21	18.2
24	ISV21IS026	RAKSHITHA L	0	16	18	0	9	8	9	10	6	6	6	6	6	35	7	4.4	4.4	4.4	4.4	13	19	18	19	20	18.1
25	ISV21IS027	RANGANATHA G N	20	18	20	20	9	8	10	10	6	6	6	6	6	21	4	7.6	7.6	7.6	7.6	30	23	22	24	24	24.3
26	ISV21IS028	SHREEVATHSA M B	16	18	18	16	9	8	9	9.5	6	6	6	6	6	31	6	8	8	8	8	28	23	22	24	24	23.9
27	ISV21IS029	SOUNDARYA R	19	19	18	19	9	10	9	10	6	6	6	6	6	27	5	6.6	6.6	6.6	6.6	30	22	23	24	24	23.8
28	ISV21IS030	SYED SUHAIL AHAMED	20	17	20	20	9	8	10	8	6	6	6	6	6	27	5	8	8	8	8	31	23	22	23	23	23.8
29	ISV21IS031	THARUN M S	18	19	18	18	9.5	9.5	9	9.5	6	6	6	6	6	24	5	3.6	3.6	3.6	3.6	29	19	19	19	19	20.9
30	ISV21IS032	THEJASWINI M	16	18	18	16	9	9	9	10	6	6	6	6	6	32	6	6.8	6.8	6.8	6.8	28	22	22	22	23	23.3
31	ISV21IS033	VARSHA K V	20	16	20	0	8	8	10	9.5	6	6	6	6	6	22	4	5.4	5.4	5.4	5.4	10	19	19	21	21	18.3
32	ISV21IS034	VARSHINMEGHA	18	16	20	18	8	8	10	9.5	6	6	6	6	6	31	6	7.2	7.2	7.2	7.2	30	21	21	23	23	23.7
33	ISV21IS035	VINUTHA H N	18	17	20	18	8.5	8.5	10	10	6	6	6	6	6	32	6	5.2	5.2	5.2	5.2	30	20	20	21	21	22.4
34	ISV21IS036	VISHNU R	20	17	20	20	8.5	8.5	10	10	6	6	6	6	6	23	5	5.4	5.4	5.4	5.4	31	20	20	21	21	22.6
35	ISV21IS037	YASHAS D R	20	17	20	20	8.5	8.5	10	10	6	6	6	6	6	27	5	6.2	6.2	6.2	6.2	31	21	21	22	22	23.4
36	ISV22IS400	CHEZHAN V	20	15	20	0	7.5	7.5	10	10	6	6	6	6	6	21	4	5.8	5.8	5.8	5.8	10	19	19	22	22	23.4
37	ISV22IS401	HONNESH KUMAR	0	12	15	0	6	6	7.5	6.5	6	6	6	6	6	18	4	5.8	5.8	5.8	5.8	10	18	18	19	18	16.6
38	ISV22IS402	NAVEEN D R	12	10	20	12	5	5	10	8	6	6	6	6	6	30	6	3.8	3.8	3.8	3.8	24	15	15	20	18	18.2
39	ISV22IS403	SWETHA N	15	12	20	0	0	0	10	5.5	6	6	6	6	6	35	7	2.6	2.6	2.6	2.6	13	9	9	19	14	12.6
											25.3	21.4	21.3	23.0	22.5												

*Principals*

*(Signature)*

*Principal*  
**PRINCIPAL**  
**SIET, TUMKUR.**



**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**COURSE OUTCOME**

- CO1.** Apply the knowledge of searching and reasoning techniques for different applications.
- CO2.** Have a good understanding of machine learning in relation to other fields and fundamental issues and challenges of machine learning
- CO3.** Apply the knowledge of classification algorithms on various dataset and compare results
- CO4.** Model the neuron and Neural Network, and to analyze ANN learning and its applications.
- CO5.** Identifying the suitable clustering algorithm for different pattern.

**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	ISE			ACADEMIC YEAR				2023-24							
COURSE	B. E	SEMESTER			V	SECTION									
SUBJECT	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING					SUBJECT CODE			21CS54						
<b>CO &amp; PO MAPPING</b>															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	2	2	2		1	1	1		2	3	2	1
CO2	3	3	2	3	2	2		1	2	3		2	3	3	2
CO3	2	2	3	2	2	3		1	2	2		2	2	3	1
CO4	3	3	3	2	2	2		1	1	2		2	3	3	2
CO5	2	2	3	1	1	2			1	2		2	3	3	2
AVERAGE	2.6	2.4	2.6	2	1.8	2.2		1	1.4	2		2	2.8	2.8	1.6
<b>OVERALL MAPPING OF SUBJECT</b>												2.09			

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	68	2.04	1.36	1.36	1.36	1.36	1.36		0.68	0.68	0.68		1.36	2.04	1.36	0.68
CO2	65.3	1.95	1.95	1.30	1.95	1.30	1.30		0.65	1.30	1.95		1.30	1.95	1.95	1.30
CO3	65.5	1.31	1.31	1.96	1.31	1.31	1.96		0.65	1.31	1.31		1.31	1.31	1.96	0.65
CO4	61.9	1.85	1.85	1.85	1.23	1.23	1.23		0.61	0.61	1.23		1.23	1.85	1.85	1.23
CO5	62.5	1.25	1.25	1.87	0.62	0.62	1.25			0.62	1.25		1.25	1.87	1.87	1.25
AVERAGE	1.68	1.54	1.67	1.29	1.16	1.42			0.65	0.90	1.28		1.29	1.80	1.80	1.02
<b>FINAL ATTAINMENT LEVEL</b>													1.35			

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**PRINCIPAL**  
**SIET, TUMKUR.**

**V SEM "B" SECTION (ISE)**

Sub: AIML

2 ICSS4

2023-2024

NAME OF THE STAFF

Mrs. Merlin B

Roll No.	USN	Name	IA MARKS			T2			T3			Assign 20 + Quiz 20 = 40/Compress to			EVEN			SEE			FINAL			TOTAL AVG																									
			T1	T2	T3	CO1-15	CO2-15	CO3-15	CO4-15	CO5-15	CO1-6	CO2-6	CO3-6	CO4-6	CO5-6	SEE (50)	CO1-10	CO2-10	CO3-10	CO4-10	CO5-10	CO1-36	CO2-31		CO3-31	CO4-31	CO5-31																						
			(20)	(20)	(20)	20	15	15	15	15	6	6	6	6	6	6	10	10	10	10	10	36	31		31	31	31																						
1	1SV21IS001	ABDUL HADY	18	19	18	18	10	9	9	9	9	6	6	6	30	6	2	2	2	2	30	18	17	17	17	19.6																							
2	1SV21IS002	ABHJITH B N	19	20	20	19	10	10	10	10	10	6	6	6	30	6	5	5	5	5	31	21	21	21	21	22.7																							
3	1SV21IS003	ABHISHEK BASAVARAJ	AB	20	19	0	10	10	10	9	6	6	6	6	24	5	6	6	6	6	11	22	22	22	21	19.6																							
4	1SV21IS004	DAKSHITH S	20	20	20	20	10	10	10	10	6	6	6	6	37	7	5	5	5	5	33	21	21	21	21	23.8																							
5	1SV21IS005	DANESHWARI S N	17	18	10	17	9	9	5	5	6	6	6	6	28	6	6	6	6	6	29	21	21	21	17	20.8																							
6	1SV21IS006	DEEKSHA K	20	19	17	20	10	9	7	10	6	6	6	6	21	4	5	5	5	5	30	21	20	18	21	22.0																							
7	1SV21IS007	DEEPIKA B M	20	20	17	20	10	10	9	8	6	6	6	6	27	5	7	7	7	7	31	23	23	22	21	23.9																							
8	1SV21IS008	DHISHANTH G PATEL	18	19	19	18	9	10	10	9	6	6	6	6	31	6	8	8	8	8	30	23	24	24	23	24.8																							
9	1SV21IS009	GAGANA S	20	20	20	20	10	10	10	10	6	6	6	6	33	7	5	5	5	5	33	21	21	21	21	23.5																							
10	1SV21IS010	H M PRAJWAL KUMAR	20	20	20	20	10	10	10	10	6	6	6	6	26	5	6	6	6	6	31	22	22	22	22	23.7																							
11	1SV21IS011	HARSHITHA P	18	20	17	18	10	10	10	7	6	6	6	6	24	5	6	6	6	6	29	22	22	22	22	23.7																							
12	1SV21IS012	HIMAVANTH K	19	20	10	19	10	10	5	5	6	6	6	6	18	4	3	3	3	3	29	19	19	14	14	18.8																							
13	1SV21IS013	KANTHARAJU V T	AB	15	17	0	7	8	8	9	6	6	6	6	28	6	8	8	8	8	12	21	22	23	23	19.8																							
14	1SV21IS014	KEERTHANA K S	16	20	20	16	10	10	10	10	6	6	6	6	30	6	7	7	7	7	28	23	23	23	23	23.7																							
15	1SV21IS015	KRISHNAMURTHY P G	AB	19	19	0	10	9	10	9	6	6	6	6	31	6	6	6	6	6	12	22	21	22	21	19.8																							
16	1SV21IS016	MANOJ R	AB	16	10	0	8	8	5	5	6	6	6	6	18	4	2	2	2	2	10	16	16	13	13	13.7																							
17	1SV21IS017	MANOJ T	AB	20	15	0	10	10	7	8	6	6	6	6	14	3	5	5	5	5	9	21	21	18	19	17.6																							
18	1SV21IS018	MANOJA S S	AB	10	9	0	5	5	4	5	6	6	6	6	8	2	6	6	6	6	8	17	17	16	17	14.8																							
19	1SV21IS019	MARUTHI G N	AB	16	5	0	7	9	7	8	6	6	6	6	10	2	4	4	4	4	8	17	19	17	18	15.5																							
20	1SV21IS021	NAVYA SHREE K S	16	19	18	16	9	10	9	9	6	6	6	6	33	7	1	1	1	1	29	16	17	16	16	19.0																							
21	1SV21IS023	NIRNAY K	AB	18	AB	0	9	9	0	0	6	6	6	6	11	2	1	1	1	1	8	16	16	7	7	10.8																							
22	1SV21IS024	PALLAVI D	20	19	20	20	10	9	10	10	6	6	6	6	34	7	5	5	5	5	33	21	20	21	21	23.3																							
23	1SV21IS025	RAHUL V	AB	19	19	0	10	9	10	9	6	6	6	6	26	5	4	4	4	4	11	20	19	20	19	17.5																							
24	1SV21IS026	RAKSHITHA L	18	19	13	18	10	9	6	7	6	6	6	6	22	4	4.4	4.4	4.4	4.4	18	20	19	16	17	20.4																							
25	1SV21IS027	RANGANATHA G N	AB	18	19	0	9	9	9	10	6	6	6	6	38	8	7.6	7.6	7.6	7.6	24	23	24	24	23	21.0																							
26	1SV21IS028	SHREEVATHSA M B	19	19	20	19	10	9	10	10	6	6	6	6	40	8	8	8	8	8	33	24	23	24	24	25.6																							
27	1SV21IS029	SOUNDARYA R	17	20	17	17	10	10	7	10	6	6	6	6	33	7	6.6	6.6	6.6	6.6	30	23	23	20	23	23.4																							
28	1SV21IS030	SYED SUHAIL AHAMED	18	17	15	18	8	9	7	8	6	6	6	6	40	8	8	8	8	8	32	22	23	21	22	24.0																							
29	1SV21IS031	THARUN M S	17	18	16	17	9	9	9	7	6	6	6	6	18	4	3.6	3.6	3.6	3.6	27	19	19	19	17	19.8																							
30	1SV21IS032	THEJASWINI M	20	20	13	20	10	10	7	6	6	6	6	6	34	7	6.8	6.8	6.8	6.8	33	23	23	20	19	23.4																							
31	1SV21IS033	VARSHA K V	19	20	19	19	10	10	9	10	6	6	6	6	27	5	5.4	5.4	5.4	5.4	30	21	20	20	19	23.0																							
32	1SV21IS034	VARSHINIMEGHA	17	20	18	17	10	10	9	9	6	6	6	6	36	7	7.2	7.2	7.2	7.2	30	23	22	22	22	24.2																							
33	1SV21IS035	VINUTHA H N	19	20	18	19	10	10	8	10	6	6	6	6	26	5	5.2	5.2	5.2	5.2	30	21	21	19	21	22.6																							
34	1SV21IS036	VISHNU R	20	20	20	20	10	10	10	10	6	6	6	6	27	5	5.4	5.4	5.4	5.4	31	21	21	21	21	23.4																							
35	1SV21IS037	YASHAS D R	20	20	20	20	10	10	10	10	6	6	6	6	31	6	6.2	6.2	6.2	6.2	32	22	22	22	22	24.2																							
36	1SV22IS400	CHEZHAN V	AB	19	14	0	10	9	7	7	6	6	6	6	29	6	5.8	5.8	5.8	5.8	12	22	21	19	19	18.4																							
37	1SV22IS401	HONNESH KUMAR	18	15	8	18	6	9	5	3	6	6	6	6	19	4	3.8	3.8	3.8	3.8	30	18	17	15	15	20.0																							
38	1SV22IS402	NAVEEN D R	17	15	20	17	7	8	10	10	6	6	6	6	19	4	3.8	3.8	3.8	3.8	27	17	18	20	20	20.2																							
39	1SV22IS403	SWETHA N	14	AB	10	14	0	0	5	5	6	6	6	6	13	3	2.6	2.6	2.6	2.6	23	9	9	14	14	13.4																							
																							24.5	20.2	20.3	19.4																							
																							68%	65.3%	65.5%	61.9%																							

*Principal*  
PRINCIPAL  
SIET. TUMKUR.

19

*Swetha N*



## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### COURSE OUTCOME

- CO1.** To know the meaning of engineering research.
- CO2.** To know the procedure of Literature Review and Technical Reading.
- CO3.** To know the fundamentals of patent laws and drafting procedure.
- CO4.** Understanding the copyright laws and subject matters of copyrights and design.
- CO5.** Understanding the basic principles of design rights.

### 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. MERLIN B														
BRANCH	ISE			ACADEMIC YEAR				2023-24							
COURSE	B. E	SEMESTER			V	SECTION									
SUBJECT	RESEARCH METHODOLOGY						SUBJECT CODE			21RMI56					
<b>CO &amp; PO MAPPING</b>															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	1	2			2		1	2	2	2	3	2	2	2
CO2	2	2	3	2	3	1	1	2	2	3	1	2	2	3	2
CO3	2	2	3	2	3	1	1	2	2	3	1	2	2	3	2
CO4	2	2	3	2	2	2		3	2	2	1	3	2	3	3
CO5	3	1	3	3	3	1	1	3	2	2	2	3	2	2	3
AVERAGE	2.4	1.6	2.8	2.25	2.75	1.4	1	2.2	2	2.4	1.4	2.6	2	2.6	2.4
<b>OVERALL MAPPING OF SUBJECT</b>												2.12			

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	65.1	1.95	0.65	1.30			1.30		0.65	1.30	1.30	1.30	1.95	1.30	1.30	1.30
CO2	69.1	1.38	1.38	2.07	1.38	2.07	0.69	0.69	1.38	1.38	2.07	0.69	1.38	1.38	2.07	1.38
CO3	68.5	1.37	1.37	2.05	1.37	2.05	0.68	0.68	1.37	1.37	2.05	0.68	1.37	1.37	2.05	1.37
CO4	70.0	1.4	1.4	2.1	1.4	1.4	1.4		2.1	1.4	1.4	0.70	2.1	1.4	2.1	2.1
CO5	69.9	2.09	0.69	2.09	2.09	2.09	0.69	0.69	2.09	1.39	1.39	1.39	2.09	1.39	1.39	2.09
AVERAGE	1.64	1.10	1.92	1.56	1.90	0.95			1.52	1.37	1.64		1.78	1.37	1.78	1.65
<b>FINAL ATTAINMENT LEVEL</b>													1.55			

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**PRINCIPAL**  
**S.I.T. TUMKUR.**

**V SEM (ISE)**

Sub: RM

21RMI56

2023-2024

NAME OF THE STAFF

Mrs. Merlin B

Roll No.	USN	Name	IA MARKS						T2						T3						EVEN						FINAL						TOTAL AVG								
			T1		T2		T3		CO1-15		CO2-15		CO3-15		CO4-15		CO5-15		SEE (50)		CO1-10		CO2-10		CO3-10		CO4-10		CO5-10		CO1-36			CO2-31		CO3-31		CO4-31		CO5-31	
			T1	T2	T1	T2	T1	T2	T1	T2	CO1-6	CO2-6	CO3-6	CO4-6	CO5-6	SEE	CO1-10	CO2-10	CO3-10	CO4-10	CO5-10	CO1-10	CO2-10	CO3-10	CO4-10	CO5-10	CO1-20	CO2-20	CO3-20	CO4-20	CO5-20	CO1-20		CO2-20	CO3-20	CO4-20	CO5-20	CO1-20	CO2-20	CO3-20	CO4-20
1	1SV21IS001	ABDUL HADY	17	19	20	17	9	10	10	10	10	10	10	10	6	6	6	6	6	23	5	5	5	5	5	28	20	21	21	21	21.8										
2	1SV21IS002	ABHIJITH B N	17	19	20	17	9	10	10	10	10	10	10	10	6	6	6	6	6	25	5	5	5	5	5	28	20	21	21	21	22.6										
3	1SV21IS003	ABHISHEK	AB	20	20	0	10	10	10	10	10	10	10	10	6	6	6	6	6	25	5	5	5	5	5	11	21	21	21	21	19.0										
4	1SV21IS004	DAKSHITH S	19	20	20	19	10	10	10	10	10	10	10	10	6	6	6	6	6	47	9	9	9	9	9	34	25	25	25	25	27.2										
5	1SV21IS005	DANESHWARI S N	12	18	20	12	10	8	10	10	10	10	10	10	6	6	6	6	6	35	7	7	7	7	7	35	23	21	23	23	23.0										
6	1SV21IS006	DEEKSHA K	19	20	19	19	10	10	10	10	10	10	10	10	6	6	6	6	6	18	4	4	4	4	4	29	20	20	20	19	21.2										
7	1SV21IS007	DEEPIKA B M	18	19	20	18	10	9	10	10	10	10	10	10	6	6	6	6	6	31	6	6	6	6	6	22	22	21	22	22	22.0										
8	1SV21IS008	DHISHANTH G	10	19	20	10	10	9	10	10	10	10	10	10	6	6	6	6	6	32	6	6	6	6	6	31	22	22	21	22	24.2										
9	1SV21IS009	GAGANA S	19	20	20	19	10	10	10	10	10	10	10	10	6	6	6	6	6	34	7	7	7	7	7	32	23	23	23	23	24.6										
10	1SV21IS010	H M PRAJWAL	19	20	20	19	10	10	10	10	10	10	10	10	6	6	6	6	6	38	8	8	8	8	8	33	24	23	24	24	25.2										
11	1SV21IS011	HARSHITHA P	19	20	20	19	10	10	10	10	10	10	10	10	6	6	6	6	6	36	7	7	7	7	7	29	23	20	20	20	21	22.8									
12	1SV21IS012	HIMAVANTH K	16	17	15	16	10	7	7	8	10	10	10	10	6	6	6	6	6	40	8	8	8	8	8	14	22	22	22	22	21.2										
13	1SV21IS013	KANTHARAJU V T	AB	16	20	0	8	8	10	10	10	10	10	10	6	6	6	6	6	30	6	6	6	6	6	31	22	22	22	22	23.8										
14	1SV21IS014	KEERTHANA K S	19	20	20	19	10	10	10	10	10	10	10	10	6	6	6	6	6	36	7	7	7	7	7	13	20	22	22	22	20.4										
15	1SV21IS015	KRISHNAMURTHY	AB	16	20	0	7	9	10	10	10	10	10	10	6	6	6	6	6	28	6	6	6	6	6	12	22	21	21	21	19.0										
16	1SV21IS016	MANOJ R	AB	19	18	0	10	9	9	9	9	9	9	9	6	6	6	6	6	36	7	7	7	7	7	13	21	22	21	21	20.4										
17	1SV21IS017	MANOJ T	AB	17	19	0	8	9	10	9	10	9	9	9	6	6	6	6	6	26	5	5	5	5	5	11	16	16	16	16	20.4										
18	1SV21IS018	MANOJA S S	AB	10	19	0	5	5	10	9	10	9	9	9	6	6	6	6	6	33	7	7	7	7	7	13	21	20	22	22	17.0										
19	1SV21IS019	MARUTHI G N	AB	15	18	0	8	7	9	9	9	9	9	9	6	6	6	6	6	33	7	7	7	7	7	13	21	20	22	22	19.2										
20	1SV21IS021	NAVYA SHREE K S	16	20	20	16	10	10	10	10	10	10	10	10	6	6	6	6	6	27	5	5	5	5	5	27	21	21	21	21	22.6										
21	1SV21IS023	NIRNAY K	AB	15	AB	0	8	7	0	0	0	0	0	0	6	6	6	6	6	19	4	4	4	4	4	10	18	17	10	10	12.8										
22	1SV21IS024	PALLAV D	19	20	20	19	10	10	10	10	10	10	10	10	6	6	6	6	6	41	8	8	8	8	8	33	24	24	24	24	26.0										
23	1SV21IS025	RAHUL V	AB	19	20	20	19	10	10	10	10	10	10	10	6	6	6	6	6	37	7	7	7	7	7	13	23	22	23	23	21.2										
24	1SV21IS026	RAKSHITHA L	17	20	20	17	10	10	10	10	10	10	10	10	6	6	6	6	6	19	4	4	4	4	4	27	20	20	20	20	21.2										
25	1SV21IS027	RANGANATHA G	AB	17	20	0	8	9	10	10	10	10	10	10	6	6	6	6	6	38	8	8	8	8	8	14	22	23	23	23	21.2										
26	1SV21IS028	SHREEVATHSA M	18	19	20	18	9	10	10	10	10	10	10	10	6	6	6	6	6	21	4	4	4	4	4	28	19	20	20	20	21.0										
27	1SV21IS029	SOUNDARYA R	16	20	20	16	10	10	10	10	10	10	10	10	6	6	6	6	6	30	6	6	6	6	6	28	22	22	22	22	21.6										
28	1SV21IS030	SYED SUHAL	18	16	15	18	8	8	7	8	7	8	7	8	6	6	6	6	6	32	6	6	6	6	6	30	20	20	20	20	23.2										
29	1SV21IS031	THARUN M S	16	15	18	16	8	7	9	9	9	9	9	9	6	6	6	6	6	24	5	5	5	5	5	27	19	18	20	20	22.2										
30	1SV21IS032	THEJASWINI M	19	19	20	19	10	10	9	10	10	10	10	10	6	6	6	6	6	37	7	7	7	7	7	32	20	20	20	20	20.6										
31	1SV21IS033	VARSHA K V	AB	17	20	0	8	9	10	10	10	10	10	10	6	6	6	6	6	27	5	5	5	5	5	11	19	20	21	21	18.8										
32	1SV21IS034	VARSHINMEGHA	14	18	15	14	9	9	9	7	8	9	7	8	6	6	6	6	6	42	8	8	8	8	8	28	23	23	23	23	25.0										
33	1SV21IS035	VINUTHA H N	15	19	20	15	14	9	10	10	10	10	10	10	6	6	6	6	6	31	6	6	6	6	6	34	24	24	24	24	25.8										
34	1SV21IS036	VISHNU R	20	20	20	20	10	10	10	10	10	10	10	10	6	6	6	6	6	39	8	8	8	8	8	34	24	24	24	24	23.8										
35	1SV21IS037	YASHAS D R	17	20	20	17	10	10	10	10	10	10	10	10	6	6	6	6	6	31	6	6	6	6	6	29	22	22	22	22	23.0										
36	1SV22IS400	CHETHAN V	AB	17	20	0	9	8	10	10	10	10	10	10	6	6	6	6	6	34	7	7	7	7	7	13	22	21	22	22	23.6										
37	1SV22IS401	HONNESH KUMAR	14	16	20	14	8	8	8	10	10	10	10	10	6	6	6	6	6	39	8	8	8	8	8	28	22	22	22	24	20.2										
38	1SV22IS402	NAVEEN D R	12	20	20	12	10	10	10	10	10	10	10	10	6	6	6	6	6	27	5	5	5	5	5	23	21	21	21	21	23.8										
39	1SV22IS403	SWETHA N	AB	15	17	0	8	7	9	8	7	9	8	7	6	6	6	6	6	20	4	4	4	4	4	10	18	17	19	18	21.8										
																				23.4						23.4	21.4	21.2	21.7	21.7	16.4										
																				65.1%						65.1%	69.1%	68.5%	70.0%	69.9%											

*Merlin B*  
**PRINCIPAL**  
**SIET. TUMKUR.**

*Merlin B*



**SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY**

**SIRA ROAD, TUMKUR- 572 106.**

## **Department of Information Science and Engineering**

### **COURSE OUTCOME**

**CO1.** Appraise the theory of Artificial intelligence and Machine Learning

**CO2.** Illustrate the working of AI and ML Algorithms.

**CO3.** Demonstrate the applications of AI and ML.

### **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	Dr.R.RAJESWARI					
BRANCH	ISE	ACADEMIC YEAR			2023-2024	
COURSE	B.E	SEMESTER	VII	SECTION	A	
SUBJECT	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING			SUBJECT CODE	18CS71	

CO-PO-PSO Mapping															
COs	Pos												PSOs		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	3	3								2		3	3	3
CO2	3	3	3	2	2	2					2	2	3	3	3
CO3	3	3	3	2	2	2					2	2	3	3	3
Average	3.0	3.0	3.0	2.0	2.0	2.0					2.0	2.0	3.0	3.0	3.0

#### CO AND PO ATTAINMENT

ATTAINMENT TABLE																
COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	30.8	0.92	0.92	0.92								0.60		0.92	0.92	0.92
CO2	34.3	1.02	1.02	1.02	0.68	0.68	0.68					0.68	0.68	1.02	1.02	1.02
CO3	32.3	0.96	0.96	0.96	0.65	0.65	0.65					0.65	0.65	0.96	0.96	0.96
AVERAGE		0.97	0.97	0.97	0.66	0.66	0.66					0.65	0.66	0.97	0.97	0.97
Final attainment level 0.78																

*Dr. Rajeswari*  
Staff Incharge

HOD/ISE

**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

Roll No.	USN	Name	18CS71			Sem: IV 'B' SEC			2022-23			AIML			FACULTY: Dr Rajeswari.R			
			SUB: C++			T1	T2	T3	ASSIGNMENT (10)			EXTERNAL			Final			
			T1(20)	T2(20)	T3(20)	CO1-20	CO2-20	CO3-20	CO1-2	CO2-2	CO3-2	SEE (60)	CO1-20	CO2-20	CO3-20	CO1-20	CO2-20	CO3-20
1	1SV20IS001	BHAVANA S	17	26	21	17	26	21	3	3	4	42	14.0	14.0	14.0	34.0	43.0	39.0
2	1SV20IS002	DARSHAN NAYAK B M	18	30	15	18	30	15	3	3	4	33	11.0	11.0	11.0	32.0	44.0	30.0
3	1SV20IS003	DEEPA R ARADHYA MATA	19	29	26	19	29	26	3	3	4	35	11.7	11.7	11.7	33.7	43.7	41.7
4	1SV20IS004	DHAVALASHREE B JAIN	29	30	27	29	30	27	3	3	4	40	13.3	13.3	13.3	45.3	46.3	44.3
5	1SV20IS005	HEMANTH SANGAM M	23	5	17	23	5	17	3	3	4	2	0.7	0.7	0.7	26.7	8.7	21.7
6	1SV20IS006	KEERTHANA N	17	26	23	17	26	23	3	3	4	27	9.0	9.0	9.0	29.0	38.0	36.0
7	1SV20IS008	NETHRAVATHI K E	16	0	23	16	0	23	3	3	4	0	0.0	0.0	0.0	19.0	3.0	27.0
8	1SV20IS009	NITHIN D G	20	19	4	20	19	4	3	3	4	22	7.3	7.3	7.3	30.3	29.3	15.3
9	1SV20IS010	REKHA	23	26	25	23	26	25	3	3	4	34	11.3	11.3	11.3	37.3	40.3	40.3
10	1SV20IS011	REVATHI P O	26	26	30	26	26	30	3	3	4	42	14.0	14.0	14.0	43.0	43.0	48.0
11	1SV20IS012	SHESHADRI T	9	29	15	9	29	15	3	3	4	32	10.7	10.7	10.7	22.7	42.7	29.7
12	1SV20IS013	SUDEEP R V S	13	22	17	13	22	17	3	3	4	29	9.7	9.7	9.7	25.7	34.7	30.7
13	1SV20IS014	THOUHID J K	18	26	12	18	26	12	3	3	4	2	0.7	0.7	0.7	21.7	29.7	16.7
															400.3	446.3	420.3	
															30.8	34.3	32.3	

*Staff Incharge*

*(Signature)*

*N. Srinivas Kumar*  
**PRINCIPAL**  
**SIET, TUMKUR.**

*18/03/2023*



## Department of Information Science and Engineering

### COURSE OUTCOME

**C01.** Design the User Interface, design, menu creation, windows creation and connection between menus and windows.

### 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	ISE					ACADEMIC YEAR					2023-24						
COURSE	B.E	SEMESTER					VII	SECTION									
SUBJECT	USER INTERFACE DESIGN							SUBJECT CODE			18CS734						
<b>CO &amp; PO MAPPING</b>																	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3		
CO1	3	3	3	1	3			2	1	1	1	2	2	2	2		
AVERAGE	3	3	3	1	3			2	1	1	1	2	2	3	3		
<b>OVERALL MAPPING OF SUBJECT</b>												1.66					

#### CO - PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	71.6	2.14	2.14	2.14	0.71	2.14			1.43	0.71	0.71	0.71	1.43	1.43	1.43	1.43
AVERAGE		2.14	2.14	2.14	0.71	2.14			1.43	0.71	0.71	0.71	1.43	1.43	1.43	1.43
<b>FINAL ATTAINMENT LEVEL</b>													1.42			

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Sri Shridevi Charitable Trust (R.)  
**SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
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Email: info@shrideviengineering.org, principal@shrideviengineering.org | Website: www.shrideviengineering.org

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ESTD: 2002

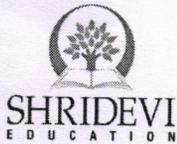


**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

Roll No.	USN	Name	18CS734	Sem:VII	2023-24	ODD					
			SUB:User Interface Design			T1+T2+T3	ASSIGN	EXTERNAL		Final	TOTAL AVG
			T1	T2	T3	CO1-90	CO1-10	SEE(60)	CO1-60	CO1-160	
1	1SV20IS001	BHAVANA S	29	29	29	87	10	41	41	138	138
2	1SV20IS002	DARSHAN NAYAK B M	15	28	29	72	10	35	35	117	117
3	1SV20IS003	DEEPA R ARADHYA MATA	29	29	29	87	10	38	38	135	135
4	1SV20IS004	DHAVALASHREE B JAIN	29	29	29	87	10	39	39	136	136
5	1SV20IS005	HEMANTH SANGAM M	20	8	22	50	10	16	16	76	76
6	1SV20IS006	KEERTHANA N	29	29	29	87	10	49	49	146	146
7	1SV20IS008	NETHRAVATHI K E	25	0	29	54	10	39	39	103	103
8	1SV20IS009	NITHIN D G	17	23	18	58	10	15	15	83	83
9	1SV20IS010	REKHA	28	28	29	85	10	30	30	125	125
10	1SV20IS011	REVATHI P O	29	29	29	87	10	38	38	135	135
11	1SV20IS012	SHESHADRI T	17	23	23	63	10	22	22	95	95
12	1SV20IS013	SUDEEP R V S	20	24	27	71	10	24	24	105	105
13	1SV20IS014	THOUHID J K	21	17	27	65	10	21	21	96	96
										9.3125	9.3125
										71.6%	71.6%

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## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### COURSE OUTCOME

- CO1. Understand the selection, prioritization and initiation of individual projects and strategic role of project management.
- CO2. Understand the work breakdown structure by integrating it with organization.
- CO3. Understand the scheduling and uncertainty in projects.
- CO4. Understand risk management planning using project quality tools.
- CO5. Understand the activities like purchasing, acquisitions, contracting, partnering and collaborations related to performing projects.
- CO6. Determine project progress and results through balanced scorecard approach

### 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: 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	AJAY HIREMATH														
BRANCH	ISE	ACADEMIC YEAR					2023-24								
COURSE	B.E	SEMESTER	VII	SECTION					-						
SUBJECT	PROJECT MANAGEMENT					SUBJECT CODE					18MN752				
<b>CO &amp; PO MAPPING.</b>															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2							2			2		2		
CO2		3	1										2		
CO3					2								2		3
CO4		2		1											3
CO5													2	2	
CO6	1		1										2	2	
AVERAGE	1.5	2.5	1	1	2			2			2		2	2	3
<b>OVERALL MAPPING OF SUBJECT</b>												1.9			

### CO - PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	81.4	1.2							1.62			1.62		1.62		
CO2	79.8		2.37	0.79										1.58		
CO3	81.2					1.62								1.62		2.43
CO4	84.8		1.67		0.83											2.51
CO5	79.1													1.53	1.53	
CO6	83.2	0.81		0.81										1.62	1.62	
AVERAGE		1.21	2.02	0.8	0.83	1.62			1.62			1.62		1.59	1.57	2.47
<b>FINAL ATTAINMENT LEVEL</b>													1.53			

*AH*

FACULTY

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HOD

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PRINCIPAL  
S. T. TUMKUR.

2023-24

Sem:VII

FACULTY: AJAY HIREMATH

Roll No.	USN	Name	18CS744			T1		T2		T3		ASSIGNMENT 10						EXTERNAL						Final						TOTAL AVG								
			T1	T2	T3	CO1-15	CO2-15	CO3-15	CO4-15	CO5-15	CO6-15	CO1-2	CO2-1	CO3-2	CO4-1	CO5-2	CO6-2	SEE (60)	CO1-10	CO2-10	CO3-10	CO4-10	CO5-10	CO6-10	CO1-27	CO2-26	CO3-27	CO4-26	CO5-27		CO6-27							
1	1SV20IS001	BHAVANA S	29	30	30	14	15	15	15	15	15	2	1	2	2	1	2	35	6	8	8	8	8	8	22	24	25	25	24	25	24							
2	1SV20IS002	DARSHAN NAYAK B M	30	29	29	13	13	15	15	15	15	2	1	2	2	1	2	41	7	6	6	6	6	6	22	20	23	23	22	23	22							
3	1SV20IS003	DEEPA R ARADHYA MATA	29	30	30	15	15	15	15	15	15	2	1	2	2	1	2	45	8	8	8	8	8	8	25	24	25	25	24	25	25							
4	1SV20IS004	DHAVALASHREE B JAIN	30	29	30	14	14	14	14	15	15	2	1	2	2	1	2	40	7	5	5	5	5	5	23	20	21	21	21	22	22							
5	1SV20IS005	HEMANTH SANGAM M	8	21	15	15	14	15	15	13	13	2	1	2	2	1	2	22	4	7	7	7	7	7	21	22	24	24	21	22	22							
6	1SV20IS006	KEERTHANA N	29	30	30	14	15	15	15	15	15	2	1	2	2	1	2	41	7	6	6	6	6	6	23	22	23	23	22	23	23							
7	1SV20IS008	NETHRAVATHI K E	30	25	30	14	15	12	12	14	15	2	1	2	2	1	2	0	0	2	2	2	2	2	16	18	16	16	17	19	17							
8	1SV20IS009	NITHIN D G	25	20	14	14	14	14	15	14	15	2	1	2	2	1	2	21	4	7	7	7	7	7	20	22	23	24	22	24	22							
9	1SV20IS010	REKHA	30	29	30	15	14	15	14	15	15	2	1	2	2	1	2	44	7	6	6	6	6	6	24	21	23	22	22	23	22							
10	1SV20IS011	REVATHI P O	28	30	30	15	15	14	15	15	15	2	1	2	2	1	2	39	7	6	6	6	6	6	24	22	22	23	22	23	23							
11	1SV20IS012	SHESHADRI T	30	29	29	12	12	13	13	14	15	2	1	2	2	1	2	25	4	4	4	4	4	4	18	17	19	19	19	21	19							
12	1SV20IS013	SUDEEP R V S	26	26	29	13	13	14	14	14	15	2	1	2	2	1	2	40	7	5	5	5	5	5	22	19	21	21	20	22	21							
13	1SV20IS014	THOUHID J K	26	27	21	14	15	14	15	14	15	2	1	2	2	1	2	36	6	5	5	5	5	5	22	21	21	22	20	22	21							
																							5.38	5.24	5.51	5.55	5.32	5.66										
																							81.4%	79.8%	81.2%	84.8%	79.1%	83.2%										

112

*Ajay Hiremath*  
 PRINCIPAL  
 S.E.T. TUMKUR.



SHRIDEVI  
EDUCATION

Sri Shridevi Charitable Trust (R.)

**SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY**

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

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ESTD: 2002



## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

2023-24

### COURSE OUTCOMES

### COURSE: INTERNET OF THINGS 18CS81

- CO1. Interpret the impact and challenges posed by IoT networks leading to new architectural models.
- CO2. Compare and contrast the deployment 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 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	ISE			ACADEMIC YEAR				2023-24							
COURSE	B.E	SEMESTER			VIII	SECTION									
SUBJECT	INTERNET OF THINGS					SUBJECT CODE				18CS81					
<b>CO &amp; PO MAPPING</b>															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	2	-	-	-	-	-	-	-	2	2	1	3
CO2	2	2	2	2	2	-	2	-	-	-	-	2	2	2	3
CO3	2	2	2	-	-	-	-	-	-	-	-	2	2	2	3
CO4	3	3	3	-	-	2	-	-	-	-	-	2	2	2	3
CO5	2	1	2	-	-	2	2	-	-	-	-	2	2	1	3
AVG	2.4	2.0	2.4	0.8	0.4	0.8	0.8	-	-	-	-	2.0	2.0	1.6	3.0
<b>OVERALL MAPPING OF SUBJECT</b>												1.65			

### CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	65	1.95	1.3	1.95	1.3	-	-	-	-	-	-	-	1.3	1.3	0.65	1.95
CO2	62	1.24	1.24	1.24	1.24	1.24	-	1.24	-	-	-	-	1.24	1.24	1.24	1.86
CO3	62	1.24	1.24	1.24	-	-	-	-	-	-	-	-	1.24	1.24	1.24	1.86
CO4	59	1.77	1.77	1.77	-	-	1.18	-	-	-	-	-	1.18	1.18	1.18	1.77
CO5	59	1.18	0.59	1.18	-	-	1.18	1.18	-	-	-	-	1.18	1.18	0.59	1.77
AVERAGE		1.47	1.22	1.47	1.27	1.24	1.18	1.21	-	-	-	-	1.22	1.23	0.98	1.84
<b>FINAL ATTAINMENT LEVEL</b>													1.30			

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### VIII SEM (ISE)

Internet of things			18CS81			2023-2024			NAME OF THE STAFF : Chethan M S																						
Roll No	USN	Name	IA MARKS			T1	T2		T3		PRACTICAL 20					SEE					FINAL					TOT AVG					
			T1 (20)	T2 (20)	T3 (20)	CO1-20	CO2-10	CO3-10	CO4-10	CO5-10	CO1-4	CO2-4	CO3-4	CO4-4	CO5-4	Lab	SEE (60)	CO1-12	CO2-12	CO3-12	CO4-12	CO5-12	CO1-36	CO2-26	CO3-26		CO4-26	CO5-26			
1	1SV20IS001	BHAVANA S	17	18	16	17	10	8	8	8	4	4	4	4	4	20	34	6.80	6.80	6.80	6.80	6.80	28	21	19	19	19	21			
2	1SV20IS002	DARSHAN NAYAK B M	15	15	0	15	7	8	0	0	2	2	2	2	2	10	36	7.20	7.20	7.20	7.20	7.20	24	16	17	9	9	15			
3	1SV20IS003	DEEPA R ARADHYA	14	12	14	14	6	6	7	7	4	4	4	4	4	20	47	9.40	9.40	9.40	9.40	9.40	27	19	19	20	20	21			
4	1SV20IS004	DHAVALASHREE B JAIN	20	20	13	20	10	10	6	7	4	4	4	4	4	20	51	10.20	10.20	10.20	10.20	10.20	34	24	24	20	21	25			
5	1SV20IS005	HEMANTH SANGAM M	9	4	0	9	2	2	0	0	4	3	3	3	3	16	21	4.20	4.20	4.20	4.20	4.20	17	9	9	7	7	10			
6	1SV20IS006	KEERTHANA N	14	10	14	14	5	5	7	7	4	4	4	4	4	20	41	8.20	8.20	8.20	8.20	8.20	26	17	17	19	19	20			
7	1SV20IS008	NETHRAVATHI K E	0	5	12	0	2	3	6	6	4	4	4	4	4	20	36	7.20	7.20	7.20	7.20	7.20	11	13	14	17	17	15			
8	1SV20IS009	NITHIN D G	14	5	8	14	3	2	4	4	4	4	4	4	4	20	22	4.40	4.40	4.40	4.40	4.40	22	11	10	12	12	14			
9	1SV20IS010	REKHA	18	14	16	18	7	7	8	8	4	4	4	4	4	20	47	9.40	9.40	9.40	9.40	9.40	31	20	20	21	21	23			
10	1SV20IS011	REVATHI P O	15	12	16	15	6	6	8	8	4	4	4	4	4	20	37	7.40	7.40	7.40	7.40	7.40	26	17	17	19	19	20			
11	1SV20IS012	SHESHADRI T	15	15	0	15	7	8	0	0	2	2	2	2	2	10	32	6.40	6.40	6.40	6.40	6.40	23	15	16	8	8	14			
12	1SV20IS013	SUDEEP R V S	7	5	14	7	3	2	7	7	4	4	4	4	4	20	35	7.00	7.00	7.00	7.00	7.00	18	14	13	18	18	16			
13	1SV20IS014	THOUHID J K	9	6	0	9	3	3	0	0	3	3	3	3	3	15	21	4.20	4.20	4.20	4.20	4.20	16	10	10	7	7	10			
																						23.54	16.08	16.00	15.31	15.38					
																						65%	62%	62%	59%	59%					

Chethan

(11)

Nanda Kumar  
PRINCIPAL  
SIET. TUMKUR.



## Department of Information 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	ISE			ACADEMIC YEAR				2023-24							
COURSE	B.E	SEMESTER			VIII	SECTION									
SUBJECT	STORAGE AREA NETWORKS				SUBJECT CODE			18CS822							
<b>CO &amp; PO MAPPING</b>															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3											3		
CO2			3										3		
CO3	1	2													
CO4		2													
AVERAGE	2	2.33	3										3		
<b>OVERALL MAPPING OF SUBJECT</b>												2.58			

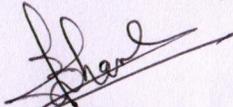
	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	62	1.86	1.86											1.86		
CO2	65			1.95										1.95		
CO3	67	0.67	1.34													
CO4	68		1.36													
AVERAGE		1.26	1.52	1.95										1.90		
<b>FINAL ATTAINMENT LEVEL</b>													1.65			

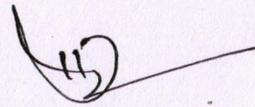
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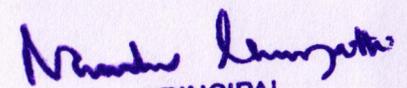
### VIII SEM (ISE)

Storage Area Networks		18CS822			2023-2024				NAME OF THE STAFF : SUTHAN R															
Roll No.	USN	Name	IA MARKS			T1	T2	T3		ASSIGNMENT 10/4				SEE				FINAL				TOT AVG		
			T1 (30)	T2 (30)	T3 (30)	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	1SV20IS001	BHAVANA S	29	25	30	29	25	15	15	2	3	2	3	26	6.50	6.50	6.50	6.50	38	35	24	25	30	
2	1SV20IS002	DARSHAN NAYAK B M	0	28	23	0	28	12	11	2	3	2	3	24	6.00	6.00	6.00	6.00	8	37	20	20	21	
3	1SV20IS003	DEEPA R ARADHYA MATA	29	29	29	29	29	14	15	2	3	2	3	35	8.75	8.75	8.75	8.75	40	41	25	27	33	
4	1SV20IS004	DHAVALASHREE B JAIN	29	29	29	29	29	15	14	2	3	2	3	33	8.25	8.25	8.25	8.25	39	40	25	25	33	
5	1SV20IS005	HEMANTH SANGAM M	29	0	0	29	0	0	0	2	3	2	3	28	7.00	7.00	7.00	7.00	38	10	9	10	17	
6	1SV20IS006	KEERTHANA N	28	18	29	28	18	14	15	2	3	2	3	38	9.50	9.50	9.50	9.50	40	31	26	28	31	
7	1SV20IS008	NETHRAVATHI K E	0	18	29	0	18	15	14	2	3	2	3	29	7.25	7.25	7.25	7.25	9	28	24	24	22	
8	1SV20IS009	NITHIN D G	0	19	25	0	19	12	13	2	3	2	3	23	5.75	5.75	5.75	5.75	8	28	20	22	19	
9	1SV20IS010	REKHA	29	23	27	29	23	14	13	2	3	2	3	32	8.00	8.00	8.00	8.00	39	34	24	24	30	
10	1SV20IS011	REVATHI P O	29	29	29	29	29	14	15	2	3	2	3	37	9.25	9.25	9.25	9.25	40	41	25	27	34	
11	1SV20IS012	SHESHADRI T	0	28	27	0	28	14	13	2	3	2	3	34	8.50	8.50	8.50	8.50	11	40	25	25	25	
12	1SV20IS013	SUDEEP R V S	22	18	27	22	18	13	14	2	3	2	3	38	9.50	9.50	9.50	9.50	34	31	25	27	29	
13	1SV20IS014	THOUHID J K	29	0	0	29	0	0	0	2	3	2	3	21	5.25	5.25	5.25	5.25	36	8	7	8	15	
																			29	31	21	22		
																			62%	65%	67%	68%		

  
Prof. Suthan R  
Staff Signature



Dr. Rekha H  
HOD, ISE

  
PRINCIPAL  
SIET. TUMKUR.