

AY: 2022-23

ODD

DEPARTMENT OF ISE

SUBJECT	ANALOG AND DIGITAL ELECTRONICS	SUBJECT CODE	21CS33
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COURSE OUTCOME

- CO 1. Explain the use of photo electronics devices, 555 timer IC, Regulator ICs and uA741
- CO 2. Make use of simplifying techniques in the design of combinational circuits.
- CO 3. Illustrate combinational and sequential digital circuits
- CO 4. Demonstrate the use of flipflops and apply for registers
- CO 5. Design and test counters, Analog-to-Digital and Digital-to-Analog conversion techniques.
- PS01:** 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.
- PS02:** 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.
- PS03:** Acquaint module knowledge on emerging trends of the modern era in computer science and engineering.

PROGRAM OUTCOMES

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

contemporary issues and acquire lifelong learning.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	Dr.CHARAN K V											
BRANCH	ISE			ACADEMIC YEAR				2022-23				
COURSE	B.E	SEMESTER			III	SECTION			B			
SUBJECT	ANALOG AND DIGITAL ELECTRONICS						SUBJECT CODE			21CS33		
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	3	1	3			2	1	1	1	2
CO2	3	3	3	1	1			2	1	1	1	2
CO3	3	2	2	1	1			2	1	1	1	2
CO4	3	3	3	1	1			2	1	1	1	2
CO5	3	2	2	1	1			2	1	1	1	2
AVERAGE	3	2.4	2.6	1	1.4			2	1	1	1	2
OVERALL MAPPING OF SUBJECT												1.45

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	0.28	0.8565	0.571	0.857	0.2855	0.8565			0.571	0.2855	0.2855	0.2855	0.571
CO2	0.24	0.7251	0.725	0.725	0.2417	0.2417			0.4834	0.2417	0.2417	0.2417	0.4834
CO3	0.28	0.8697	0.58	0.58	0.2899	0.2899			0.5798	0.2899	0.2899	0.2899	0.5798
CO4	0.28	0.8697	0.58	0.58	0.2899	0.2899			0.5798	0.2899	0.2899	0.2899	0.5798
CO5	0.25	0.7782	0.519	0.259	0.2594	0.2594			0.2594	0.2594	0.2594	0.2594	0.5188
AVERAGE	0.266	0.817	0.545	0.558	0.27	0.557			0.41	0.272	0.272	0.272	0.54
FINAL ATTAINMENT LEVEL													1.55

Academic year	2022-23	SEM	(CSE / ISE)	Total strength	40	21CS33	Analog and Digital Electronics																												
							IA TEST 1(30M)					IA TEST 2(30M)					IA TEST 3(30M)					ASSIGNMENT / QUIZ(20 M)					SEE MARKS(50)					% of individual CO			
USN	CO1	CO2	TOTAL	CO3	CO4	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1=12	CO2	CO3	CO4	CO5	CO1=44	CO2=29	CO3=29	CO4=29	CO5=29	CO1	CO2	CO3	CO4	CO5	50M					
1SV21IS001	14	14	28	14.5	14.5	29	13.5	13.5	27	2	2	2	2	2	8	8	8	8	10	86.36364	84.48276	84.48276	81.03448	87.93103	38	24.5	24.5	23.5	25.5	40					
1SV21IS002	14	14	28	15	15	30	15	15	30	2	2	2	2	2	6.2	6.2	6.2	6.2	7.75	82.27273	80	80	80	85.34483	36.2	23.2	23.2	23.2	24.75	31					
1SV21IS003	14	14	28	13.5	13.5	27	10	10	20	2	2	2	2	2	7.4	7.4	7.4	7.4	9.25	85	78.9655	78.96552	66.89655	73.27586	37.4	22.9	22.9	19.4	21.25	37					
1SV21IS004	14	14	28	14.5	14.5	29	11	11	22	2	2	2	2	2	5.2	5.2	5.2	5.2	6.5	80	74.8276	74.82759	62.75862	67.24138	35.2	21.7	21.7	18.2	19.5	26					
1SV21IS005	14.5	14.5	29	14.5	14.5	29	14	14	28	2	2	2	2	2	8.2	8.2	8.2	8.2	10.25	89.09091	85.1724	85.17241	83.44828	90.51724	39.2	24.7	24.7	24.2	26.25	41					
1SV21IS006	14	14	28	15	15	30	12	12	24	2	2	2	2	2	10	10	10	10	12.5	90.90909	93.1034	93.10345	82.75862	91.37931	40	27	27	24	26.5	50					
1SV21IS007	14	14	28	15	15	30	14.5	14.5	29	2	2	2	2	2	7.8	7.8	7.8	7.8	9.75	85.90909	85.5172	85.51724	83.7931	90.51724	37.8	24.8	24.8	24.3	26.25	39					
1SV21IS008	14.5	14.5	29	14.5	14.5	29	10	10	20	2	2	2	2	2	7.8	7.8	7.8	7.8	9.75	88.18182	83.7931	83.7931	68.27586	75	38.8	24.3	24.3	19.8	21.75	39					
1SV21IS009	15	15	30	15	15	30	13	13	26	2	2	2	2	2	6.4	6.4	6.4	6.4	8	87.27273	80.6897	80.68966	73.7931	79.31034	38.4	23.4	23.4	21.4	23	32					
1SV21IS010	14.5	14.5	29	15	15	30	14.5	14.5	29	2	2	2	2	2	8.4	8.4	8.4	8.4	10.5	89.54545	87.5862	87.58621	85.86207	93.10345	39.4	25.4	25.4	24.9	27	42					
1SV21IS011	15	15	30	15	15	30	11.5	11.5	23	2	2	2	2	2	7	7	7	7	8.75	88.63636	82.7586	82.75862	70.68966	76.72414	39	24	24	20.5	22.25	35					
1SV21IS012	15	15	30	15	15	30	14	14	28	2	2	2	2	2	10	10	10	10	12.5	95.45455	93.1034	93.10345	89.65517	98.27586	42	27	27	26	28.5	50					
1SV21IS013	14	14	28	15	15	30	13.5	13.5	27	2	2	2	2	2	10	10	10	10	12.5	90.90909	93.1034	93.10345	87.93103	96.55172	40	27	27	25.5	28	50					
1SV21IS014	12	12	24	10	10	20	10.5	10.5	21	2	2	2	2	2	8	8	8	8	10	77.27273	68.9655	68.96552	70.68966	77.58621	34	20	20	20.5	22.5	40					
1SV21IS015	14	14	28	14.5	14.5	29	13.5	13.5	27	2	2	2	2	2	9	9	9	9	11.25	88.63636	87.931	87.93103	84.48276	92.24138	39	25.5	25.5	24.5	26.75	45					
1SV21IS016	12	12	24	15	15	30	10	10	20	2	2	2	2	2	7.6	7.6	7.6	7.6	9.5	76.36364	84.8276	84.82759	67.58621	74.13793	33.6	24.6	24.6	19.6	21.5	38					
1SV21IS017	14.5	14.5	29	15	15	30	10	10	20	2	2	2	2	2	8.8	8.8	8.8	8.8	11	90.45455	88.9655	88.96552	71.72414	79.31034	39.8	25.8	25.8	20.8	23	44					
1SV21IS018	14.5	14.5	29	13.5	13.5	27	15	15	30	2	2	2	2	2	10	10	10	10	12.5	93.18182	87.931	87.93103	93.10345	101.7241	41	25.5	25.5	27	29.5	50					
1SV21IS019	14.5	14.5	29	15	15	30	13.5	13.5	27	2	2	2	2	2	8.4	8.4	8.4	8.4	10.5	89.54545	87.5862	87.58621	82.41379	89.65517	39.4	25.4	25.4	23.9	26	42					
1SV21IS021	14.5	14.5	29	15	15	30	14	14	28	2	2	2	2	2	5.4	5.4	5.4	5.4	6.75	82.72727	77.2414	77.24138	73.7931	78.44828	36.4	22.4	22.4	21.4	22.75	27					
1SV21IS022	14	14	28	13	13	26	15	15	30	2	2	2	2	2	7.4	7.4	7.4	7.4	9.25	85	77.2414	77.24138	84.13793	90.51724	37.4	22.4	22.4	24.4	26.25	37					
1SV21IS023	15	15	30	15	15	30	15	15	30	2	2	2	2	2	10	10	10	10	12.5	95.45455	93.1034	93.10345	93.10345	101.7241	42	27	27	27	29.5	50					
1SV21IS024	10.5	10.5	21	13.5	13.5	27	11.5	11.5	23	2	2	2	2	2	5.2	5.2	5.2	5.2	6.5	64.09091	71.3793	71.37931	64.48276	68.96552	28.2	20.7	20.7	18.7	20	26					
1SV21IS025	15	15	30	14.5	14.5	29	13.5	13.5	27	2	2	2	2	2	8.2	8.2	8.2	8.2	10.25	91.36364	85.1724	85.17241	81.72414	88.7931	40.2	24.7	24.7	23.7	25.75	41					
1SV21IS026	10	10	20	13	13	26	12	12	24	2	2	2	2	2	10	10	10	10	12.5	72.72727	86.2069	86.2069	82.75862	91.37931	32	25	25	24	26.5	50					
1SV21IS027	14.5	14.5	29	15	15	30	13.5	13.5	27	2	2	2	2	2	7.8	7.8	7.8	7.8	9.75	88.18182	85.5172	85.51724	80.34483	87.06897	38.8	24.8	24.8	23.3	25.25	39					
1SV21IS028	15	15	30	15	15	30	15	15	30	2	2	2	2	2	7.8	7.8	7.8	7.8	9.75	90.45455	85.5172	85.51724	85.51724	92.24138	39.8	24.8	24.8	24.8	26.75	39					
1SV21IS029	14	14	28	15	15	30	15	15	30	2	2	2	2	2	6.4	6.4	6.4	6.4	8	82.72727	80.6897	80.68966	80.68966	86.2069	36.4	23.4	23.4	23.4	25	32					
1SV21IS030	14.5	14.5	29	15	15	30	15	15	30	2	2	2	2	2	8.4	8.4	8.4	8.4	10.5	89.54545	87.5862	87.58621	87.58621	94.82759	39.4	25.4	25.4	25.4	27.5	42					
1SV21IS031	13	13	26	13.5	13.5	27	15	15	30	2	2	2	2	2	7	7	7	7	8.75	79.54545	77.5862	77.58621	82.75862	88.7931	35	22.5	22.5	24	25.75	35					
1SV21IS032	15	15	30	15	15	30	15	15	30	2	2	2	2	2	10	10	10	10	12.5	95.45455	93.1034	93.10345	93.10345	101.7241	42	27	27	27	29.5	50					
1SV21IS033	14	14	28	15	15	30	14.5	14.5	29	2	2	2	2	2	10	10	10	10	12.5	90.90909	93.1034	93.10345	91.37931	100	40	27	27	26.5	29	50					
1SV21IS034	15	15	30	10	10	20	10	10	20	2	2	2	2	2	8	8	8	8	10	90.90909	68.9655	68.96552	68.96552	75.86207	40	20	20	20	22	40					
1SV21IS035	14	14	28	13	13	26	13.5	13.5	27	2	2	2	2	2	9	9	9	9	11.25	88.63636	82.7586	82.75862	84.48276	92.24138	39	24	24	24.5	26.75	45					
1SV21IS036	14	14	28	14.5	14.5	29	13.5	13.5	27	2	2	2	2	2	7.6	7.6	7.6	7.6	9.5	85.45455	83.1034	83.10345	79.65517	86.2069	37.6	24.1	24.1	23.1	25	38					
1SV21IS037	14.5	14.5	29	10	10	20	14	14	28	2	2	2	2	2	5.2	5.2	5.2	5.2	6.5	82.27273	59.31034	59.31034	73.10345	77.58621	36.2	17.2	17.2	21.2	22.5	26					
1SV22IS400	14	14	28	15	15	30	14.5	14.5	29	2	2	2	2	2	8.2	8.2	8.2	8.2	10.25	86.81818	86.8966	86.89655	85.17241	92.24138	38.2	25.2	25.2	24.7	26.75	41					
1SV22IS401	14	14	28	15	15	30	13.5	13.5	27	2	2	2	2	2	10	10	10	10	12.5	90.90909	93.1034	93.10345	87.93103	96.55172	40	27	27	25.5	28	50					
1SV22IS402	14.5	14.5	29	14.5	14.5	29	14	14	28	2	2	2	2	2	7.8	7.8	7.8	7.8	9.75	88.18182	83.7931	83.7931	82.06897	88.7931	38.8	24.3	24.3	23.8	25.75	39					
1SV22IS403	14.5	14.5	29	15	15	30	15	15	30	2	2	2	2	2	7.8	7.8	7.8	7.8	9.75	88.18182	85.5172	85.51724	85.51724	92.24138	38.8	24.8	24.8	24.8	26.75	39					

	PO1	PO2	PO3	PO4	PO5	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2.59	2.59	0.86	1.72	1.72	0.86	0.86	0.86	1.72	0.86	0.86
CO2	1.65	2.48	0.82	1.65	1.65	0.82	0.82	0.82	1.65	0.82	0.82
CO3	2.2	0.82	1.65	1.65	1.65	0.82	0.82	0.82	1.65	1.65	2.48
CO4	2.45	1.63	1.65	1.63	1.63	0.81	2.48	0.81	1.63	1.65	0.82
CO5	2.48	1.63	2.48	1.63	1.63	0.81	0.82	0.81	1.63	0.81	1.63

2.535 2.11 1.67 1.675 1.675 0.835 0.84 0.835 1.675 0.835 1.245 1.448182

S. Subal. G. K
HOD
Information Science
and
Engineering
SIET, TUMKURU-572106

M. Prashanth
PRINCIPAL
SIET, TUMKUR.

For
60

Department of Information Science and Engineering

2022-2023

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

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

PROGRAM OUTCOMES

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

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

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	54	1.62	1.08	0.54			0.54						0.54	1.62	1.08	1.08
CO2	56.5	1.69	1.69	0.56									0.56	1.69	1.13	1.13
CO3	56.9	1.70	1.13	1.13			0.56						0.56	1.70	1.13	1.70
CO4	59.1	1.77	1.77	1.18									0.59	1.77	1.18	1.77
CO5	59	1.77	1.18	0.59									0.59	1.77	1.18	1.77
AVERAGE		1.71	1.37	0.8			0.55						0.56	1.71	1.14	1.49
FINAL ATTAINMENT LEVEL													1.16			

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

SUB: Computer Organization			Sem:III			2022-23					EVEN					FACULTY NAME : Chethan M S					TOTAL AVG														
Roll No.	USN	Name	21CS34			T3					ASSIGNMENT 10 + Seminar 20					EXTERNAL						Final													
			T1	T2	T3	CO1-20	CO2-10	CO3-10	CO4-10	CO5-10	CO1-6	CO2-6	CO3-6	CO4-6	CO5-6	SEE (50)	CO1-10	CO2-10	CO3-10	CO4-10		CO5-10	CO1-36	CO2-26	CO3-26	CO4-26	CO5-26								
1	1SV21IS001	ABDUL HADY	8	7	16	8	4	3	8	8	6	6	6	6	6	18	3.6	3.6	3.6	3.6	3.6	17.6	13.6	12.6	17.6	17.6	15.8								
2	1SV21IS002	ABHIJITH B N	4	6	5	4	3	3	2	3	6	6	6	6	6	25	5	5	5	5	5	15	14	14	13	14	14								
3	1SV21IS003	ABHISHEK BASAVARAJ ARALI	14	10	9	14	5	5	5	4	6	6	6	6	6	34	6.8	6.8	6.8	6.8	6.8	26.8	17.8	17.8	17.8	16.8	19.4								
4	1SV21IS004	DAKSHITH S	11	9	12	11	5	4	6	6	6	6	6	6	6	20	4	4	4	4	4	21	15	14	16	16	16.4								
5	1SV21IS005	DANESHWARI SOMANAGOWDA	4	4	6	4	2	2	3	3	6	6	6	6	6	24	4.8	4.8	4.8	4.8	4.8	14.8	12.8	12.8	13.8	13.8	13.6								
6	1SV21IS006	DEEKSHA K	10	12	9	10	6	6	5	4	6	6	6	6	6	34	6.8	6.8	6.8	6.8	6.8	22.8	18.8	18.8	17.8	16.8	19								
7	1SV21IS007	DEEPIKA B M	8	9	8	8	5	4	4	4	6	6	6	6	6	23	4.6	4.6	4.6	4.6	4.6	18.6	15.6	14.6	14.6	14.6	15.6								
8	1SV21IS008	DHISHANTH G PATEL	13	4	10	13	2	2	5	5	6	6	6	6	6	26	5.2	5.2	5.2	5.2	5.2	24.2	13.2	13.2	16.2	16.2	16.6								
9	1SV21IS009	GAGANA S	9	8	13	9	4	4	6	7	6	6	6	6	6	38	7.6	7.6	7.6	7.6	7.6	22.6	17.6	17.6	19.6	20.6	19.6								
10	1SV21IS010	H M PRAJWAL KUMAR	10	2	7	10	0	2	4	3	6	6	6	6	6	26	5.2	5.2	5.2	5.2	5.2	21.2	11.2	13.2	15.2	14.2	15								
11	1SV21IS011	HARSHITHA P	7	3	9	7	0	3	5	4	6	6	6	6	6	32	6.4	6.4	6.4	6.4	6.4	19.4	12.4	15.4	17.4	16.4	16.2								
12	1SV21IS012	HIMAVANTH K	5	4	4	5	2	2	2	2	6	6	6	6	6	28	5.6	5.6	5.6	5.6	5.6	16.6	13.6	13.6	13.6	13.6	14.2								
13	1SV21IS013	KANTHARAJU V T	4	0	4	4	0	0	2	2	6	6	6	6	6	26	5.2	5.2	5.2	5.2	5.2	15.2	11.2	11.2	13.2	13.2	12.8								
14	1SV21IS014	KEERTHANA K S	14	16	4	14	8	8	2	2	6	6	6	6	6	35	7	7	7	7	7	27	21	21	15	15	19.8								
15	1SV21IS015	KRISHNAMURTHY P G	11	17	17	11	7	10	10	7	6	6	6	6	6	45	9	9	9	9	9	26	22	25	25	22	24								
16	1SV21IS016	MANOJ R	6	4	11	6	2	2	5	6	6	6	6	6	6	18	3.6	3.6	3.6	3.6	3.6	15.6	11.6	11.6	14.6	15.6	13.8								
17	1SV21IS017	MANOJ T	12	5	7	12	3	2	4	3	6	6	6	6	6	31	6.2	6.2	6.2	6.2	6.2	24.2	15.2	14.2	16.2	15.2	17								
18	1SV21IS018	MANOJA S S	7	0	4	7	0	0	2	2	6	6	6	6	6	15	3	3	3	3	3	16	9	9	11	11	11.2								
19	1SV21IS019	MARUTHI G N	0	3	5	0	0	3	0	5	6	6	6	6	6	18	3.6	3.6	3.6	3.6	3.6	9.6	9.6	12.6	9.6	14.6	11.2								
20	1SV21IS021	NAVYA SHREE K S	17	16	16	17	8	8	8	8	6	6	6	6	6	37	7.4	7.4	7.4	7.4	7.4	30.4	21.4	21.4	21.4	21.4	23.2								
21	1SV21IS022	NINGAIAH	0	0	0	0	0	0	0	0	6	6	6	6	6	3	0.6	0.6	0.6	0.6	0.6	6.6	6.6	6.6	6.6	6.6	6.6								
22	1SV21IS023	NIRNAY K	3	0	2	3	0	0	0	2	6	6	6	6	6	12	2.4	2.4	2.4	2.4	2.4	11.4	8.4	8.4	8.4	10.4	9.4								
23	1SV21IS024	PALLAVI D	8	16	13	8	8	8	7	6	6	6	6	6	6	34	6.8	6.8	6.8	6.8	6.8	20.8	20.8	20.8	19.8	18.8	20.2								
24	1SV21IS025	RAHUL V	14	12	6	14	6	6	3	3	6	6	6	6	6	23	4.6	4.6	4.6	4.6	4.6	24.6	16.6	16.6	13.6	13.6	17								
25	1SV21IS026	RAKSHITHA L	12	16	9	12	8	8	5	4	6	6	6	6	6	38	7.6	7.6	7.6	7.6	7.6	25.6	21.6	21.6	18.6	17.6	21								
26	1SV21IS027	RANGANATHA G N	5	5	4	5	3	2	2	2	6	6	6	6	6	19	3.8	3.8	3.8	3.8	3.8	14.8	12.8	11.8	11.8	11.8	12.6								
27	1SV21IS028	SHREEVATHSA M B	2	4	9	2	2	2	5	4	6	6	6	6	6	36	7.2	7.2	7.2	7.2	7.2	15.2	15.2	15.2	18.2	17.2	16.2								
28	1SV21IS029	SOUNDARYA R	10	8	11	10	4	4	6	5	6	6	6	6	6	27	5.4	5.4	5.4	5.4	5.4	21.4	15.4	15.4	17.4	16.4	17.2								
29	1SV21IS030	SYED SUHAIL AHAMED	8	0	0	8	0	0	0	0	6	6	6	6	6	21	4.2	4.2	4.2	4.2	4.2	18.2	10.2	10.2	10.2	10.2	11.8								
30	1SV21IS031	THARUN M S	3	0	8	3	0	0	4	4	6	6	6	6	6	25	5	5	5	5	5	14	11	11	15	15	13.2								
31	1SV21IS032	THEJASWINI M	11	14	13	11	7	7	6	7	6	6	6	6	6	34	6.8	6.8	6.8	6.8	6.8	23.8	19.8	19.8	18.8	19.8	20.4								
32	1SV21IS033	VARSHA K V	5	2	4	5	2	0	2	2	6	6	6	6	6	10	2	2	2	2	2	13	10	8	10	10	10.2								
33	1SV21IS034	VARSHINIMEGHA	7	8	8	7	4	4	4	4	6	6	6	6	6	13	2.6	2.6	2.6	2.6	2.6	15.6	12.6	12.6	12.6	12.6	13.2								
34	1SV21IS035	VINUTHA H N	8	7	11	8	3	4	6	5	6	6	6	6	6	30	6	6	6	6	6	20	15	16	18	17	17.2								
35	1SV21IS036	VISHNU R	9	9	14	9	5	4	7	7	6	6	6	6	6	31	6.2	6.2	6.2	6.2	6.2	21.2	17.2	16.2	19.2	19.2	18.6								
36	1SV21IS037	YASHAS D R	11	14	12	11	7	7	6	6	6	6	6	6	6	33	6.6	6.6	6.6	6.6	6.6	23.6	19.6	19.6	18.6	18.6	20								
37	1SV22IS400	CHETHAN V	10	2	8	10	0	2	4	4	6	6	6	6	6	26	5.2	5.2	5.2	5.2	5.2	21.2	11.2	13.2	15.2	15.2	15.2								
38	1SV22IS401	HONNESH KUMAR	8	12	11	8	6	6	5	6	6	6	6	6	6	22	4.4	4.4	4.4	4.4	4.4	18.4	16.4	16.4	15.4	16.4	16.6								
39	1SV22IS402	NAVEEN D R	11	9	16	11	5	4	8	8	6	6	6	6	6	23	4.6	4.6	4.6	4.6	4.6	21.6	15.6	14.6	18.6	18.6	17.8								
40	1SV22IS403	SWETHA N	13	10	AB	13	5	5	0	0	6	6	6	6	6	18	3.6	3.6	3.6	3.6	3.6	22.6	14.6	14.6	9.6	9.6	14.2								
																					19.455	14.68	14.805	15.355	15.33										
																					54%	56.5%	56.9%	59.1%	59%										

Chethan M S
STAFF INCHARGE

Chethan M S
HEAD, CSE



DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

COURSE OUTCOME

- CO1:** Define management, organization, entrepreneur, planning, staffing, ERP and outline their importance in entrepreneurship
- CO2:** Utilize the resources available effectively through ERP
- CO3:** Make use of IPRs and institutional support in entrepreneurship

PROGRAM OUTCOMES

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

COLLEGE		SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY															
FACULTY NAME		Mr SUTHAN R															
BRANCH		I SE				ACADEMIC YEAR				2022-23							
COURSE	B.E	SEMESTER				V		SECTION									
SUBJECT	Management and Entrepreneurship for IT Industry							SUBJECT CODE				18CS51					

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1		2							2		1				
CO2	3								2	2	2				
CO3								3		2	3	2			3
AVERAGE	3	2						3	2	2	2	2			3
OVERALL MAPPING OF SUBJECT												2.37			

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	60.96		1.22							1.22		0.61				
CO2	67.92	2.04								1.36	1.36	1.36				
CO3	68.80								2.06		1.38	2.06	1.38			2.06
AVERAGE	65.89	2.04	1.22						2.06	1.29	1.37	1.34	1.38			2.06
FINAL ATTAINMENT LEVEL													1.60			



Academic year 2022-23		SEM V		Total strength : 13			Subject : M&E (IS)						18CS51			% of individual CO			SEE Tot	
ROLL NO	USN	TEST 1(30)		TEST 2(30)		TEST 3(30)		ENEMENT / QUIZ			SEE MARKS(60)			tal Cos ATTAINME						
		CO1	TOTAL	CO2	TOTAL	CO3	TOTAL	CO1	CO2	CO3	CO1=20	CO2	CO3	CO1=5	CO2=5	CO3=5	CO1	CO2	CO3	60M
1	1SV20IS001	20	20	13	13	20	20	3	3	4	11	11	11	34	27	35	64.1509	50.9434	64.8148	33
2	1SV20IS002	17	17	26	26	21	21	3	3	4	8	8	7	28	37	32	52.8302	69.8113	59.2593	23
3	1SV20IS003	26	26	29	29	23	23	3	3	4	15	15	14	44	47	41	83.0189	88.6792	75.9259	44
4	1SV20IS004	24	24	29	29	28	28	3	3	4	16	16	15	43	48	47	81.1321	90.566	87.037	47
5	1SV20IS005	0	0	1	1	27	27	3	3	4	12	12	11	15	16	42	28.3019	30.1887	77.7778	35
6	1SV20IS006	26	26	24	24	27	27	3	3	4	14	14	15	43	41	46	81.1321	77.3585	85.1852	43
7	1SV20IS008	25	25	25	25	22	22	3	3	4	12	12	12	40	40	38	75.4717	75.4717	70.3704	36
8	1SV20IS009	7	7	7	7	14	14	3	3	4	13	13	13	23	23	31	43.3962	43.3962	57.4074	39
9	1SV20IS010	26	26	29	29	29	29	3	3	4	15	15	15	44	47	48	83.0189	88.6792	88.8889	45
10	1SV20IS011	20	20	29	29	18	18	3	3	4	10	10	10	33	42	32	62.2642	79.2453	59.2593	30
11	1SV20IS012	17	17	24	24	20	20	3	3	4	10	10	10	30	37	34	56.6038	69.8113	62.963	30
12	1SV20IS013	16	16	23	23	14	14	3	3	4	14	14	14	33	40	32	62.2642	75.4717	59.2593	42
13	1SV20IS014	0	0	13	13	14	14	3	3	4	7	7	7	10	23	25	18.8679	43.3962	46.2963	21
																	60.9579	67.9245	68.8034	36

SUTHAN.R

Sub: C&E

HOD
Dept. of ISE
SIET, Tumkur-06

N. Srinivas
PRINCIPAL
SIET, TUMKUR.



DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

SUBJECT	DBMS	SUBJECT CODE	18CS53
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COURSE OUTCOME

- C01.** Identify, analyse and define database objects, enforce integrity constraints on a database using RDBMS.
- C02.** Use Structured Query Language (SQL) for database manipulation.
- C03.** Design and build simple database systems
- C04.** Develop application to interact with databases.

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	Prof.Shruthi S												
BRANCH	ISE	ACADEMIC YEAR					2022-23						
COURSE	B.E	SEMESTER			V TH	SECTION							
SUBJECT	DBMS				SUBJECT CODE			18CS53					

CO & PO MAPPING

	PO 1	PO 2	PO3	PO 4	PO 5	PO 6	PO7	PO8	PO9	PO1 0	PO1 1	PO1 2	PSO 1	PSO 2	PSO 3	
CO1	2	2	2	-	2	-	-	-	-	-	-	2	1	1	1	
CO2	2	3	3	-	2	-	-	-	-	-	-	2	1		1	
CO3	3	3	3	-	3	-	-	-	-	-	-	2		2	1	
CO4	3	3	3	-	3	-	-	-	-	-	-	2	1		2	
AVG	2.5	2.75	2.75	-	2.5	-	-	-	-	-	-	2	1	1	1.25	
1.36															OVERALL MAPPING OF SUBJECT	1.31

	CO%	PO1	PO2	PO3	PO 4	PO5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO12	PSO1	PSO2	PSO3
CO1	57.75	1.15	1.15	1.15	-	1.15	-	-	-	-	-	-	1.15	0.5775	0.5775	0.5775
CO2	65.05	1.30	1.95	1.95		1.30	-	-	-	-	-	-	1.30	0.65		0.65
CO3	68.19	2.04	2.04	2.04	-	2.04	-	-	-	-	-	-	1.36		1.36	0.6689
CO4	60.20	1.80	1.80	1.80		1.80	-	-	-	-	-	-	1.20	0.60		1.20
AVERAGE	48.29	1.57	1.73	0.73		1.57	-	-	-	-	-	-	1.25	0.60	0.96	0.77
FINAL ATTAINMENT LEVEL																1.14

SEM. I	USN	A TEST 1(30M)		TEST 2(30M)		IA TEST 3(30M)		ASSIGNMENT (10 M)				SEE MARKS(60)				Total Cos ATTAINMENT				% of individual CO				SEE Tot	
		CO1	TOTAL	CO2	TOTAL	CO3	CO4	TOTAL	CO1=3	CO2=2	CO3=3	CO4=2	CO1=12	CO2	CO3	CO4	CO1=45	CO2=44	CO3=30	CO4=29	CO1	CO2	CO3		CO4
	ISV20IS001	21	21	14	14	9	11	20	3	2	3	2	3	3	3	3	27	19	15	16	60	43.18182	50	55.17241	12
	ISV20IS002	13	13	25	25	14	0	14	3	2	3	2	9	9	9	9	25	36	26	11	55.55556	81.81818	86.66667	37.93103	36
	ISV20IS003	19	19	26	26	9	10	19	3	2	3	2	7.25	7.25	7.25	7.25	29.25	35.25	19.25	19.25	65	80.11364	64.16667	66.37931	29
	ISV20IS004	29	29	25	25	12	15	27	3	2	3	2	8.5	8.5	8.5	8.5	40.5	35.5	23.5	25.5	90	80.68182	78.33333	87.93103	34
	ISV20IS005	1	1	18	18	9	4	13	3	2	3	2	0	0	0	0	4	20	12	6	8.888889	45.45455	40	20.68966	0
	ISV20IS006	7	7	25	25	11	15	26	3	2	3	2	7.5	7.5	7.5	7.5	17.5	34.5	21.5	24.5	38.88889	78.40909	71.66667	84.48276	30
	ISV20IS008	21	21	0	0	14	15	29	3	2	3	2	0	0	0	0	24	2	17	17	53.33333	4.545455	56.66667	58.62069	0
	ISV20IS009	3	3	23	23	12	11	23	3	3	3	2	0.25	0.25	0.25	0.25	6.25	26.25	15.25	13.25	13.88889	59.65909	50.83333	45.68966	1
	ISV20IS010	25	25	26	26	14	12	26	3	2	3	2	8.5	8.5	8.5	8.5	36.5	36.5	25.5	22.5	81.11111	82.95455	85	77.58621	34
	ISV20IS011	24	24	25	25	14	13	27	3	2	3	2	5.75	5.75	5.75	5.75	32.75	32.75	22.75	20.75	72.77778	74.43182	75.83333	71.55172	23
	ISV20IS012	7	7	14	14	10	8	18	3	2	3	2	3	3	3	3	13	19	16	13	28.88889	43.18182	53.33333	44.82759	12
	ISV20IS013	14	14	25	25	8	5	13	3	2	3	2	2.75	2.75	2.75	2.75	19.75	29.75	13.75	9.75	43.88889	67.61364	45.83333	33.62069	11
	ISV20IS014	0	0	14	14	14	8	22	3	2	3	2	1	1	1	1	4	17	18	11	8.888889	38.63636	60	37.93103	4
																					621.1111	780.6818	818.3333	722.4138	
																					12	12	12	12	
																					51.75926	65.05682	68.19444	60.20115	

R. Shrivastava

Suhad. R. K.
HOD
 Information Science
 and
 Engineering
 SIET, TUMAKURU-572 106

Nandhu Kumar
PRINCIPAL
 SIET, TUMKUR.



DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

SUBJECT	APPLICATION DEVELOPMENT USING PYTHON	SUBJECT CODE	18CS55
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COURSE OUTCOME

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

PROGRAM OUTCOMES

- P01** Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
- P02** Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
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- P04** Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.
- P05** Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.
- P06** The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.
- P07** Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- P08** Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- P09** Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- P010** Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.
- P011** Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.
- P012** Life-long learning: recognition of the need for, and an ability to engage in, to resolve Contemporary issues and acquire lifelong learning.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY														
FACULTY NAME	Mr. RENUKARADHYA P.C														
BRANCH	ISE			ACADEMIC YEAR				2022-23							
COURSE	B.E	SEMESTER			V										
SUBJECT	APPLICATION DEVELOPMENT USING PYTHON						SUBJECT CODE			18CS55					
CO & PO MAPPING															
	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	2	1		1		1			2	3	1	
CO2	3	2	2	3	1	2		2		2	1	2	1		2
CO3	3	2	2	2		1		3	2	1		2	3	1	1
CO4	3	2	1	2	1	1	3			2		1	2		2
CO5	3	2	3	3	2		1		1	2	3		1		3
AVERAGE		2	2	2.4	1.25	1.33	1.33	2.5	1.33	1.75	2	1.75	2	1	2
OVERALL MAPPING OF SUBJECT												1.90			


CO AND PO ATTAINMENT

	CO %	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	35.97	1.07	0.71	0.71	0.71	0.35		0.35		0.35			0.71	1.07	0.35	
CO2	54.55	1.63	1.09	1.09	1.63	0.54	1.09		1.09		1.09	0.54	1.09	0.54		1.09
CO3	56.39	1.69	1.12	1.12	1.12		0.56		1.69	1.12	0.56		1.12	1.69	0.56	1.12
CO4	55.47	1.66	1.10	0.55	1.10	0.55	0.55	1.66			1.10		1.10	1.10		0.55
CO5	65.58	1.96	1.31	1.96	1.96	1.31		0.65		0.65	1.31	1.96		0.65		1.96
AVERAGE		1.60	1.06	1.06	1.28	0.66	0.71	0.71	1.29	0.71	0.93	1.06	0.93	0.93	0.53	1.06
FINAL ATTAINMENT LEVEL												0.89				

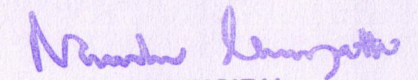
SUBJECT BIG DATA ANALYTICS
STAFF RENUKARADHYA P C

18CS72

Roll No.	USN	Name	IA TEST I			IA TEST II			IA TEST III			SEE					Final					ASSIGNMENT 10/5					
			CO1=40	Total	CO2=20	CO3=20	Total	CO4=20	CO5=20	Total	SEE	CO1-12	CO2=12	CO3=12	CO4=12	CO5=12	CO1-54	CO2-34	CO3-34	CO4-34	CO5=34	CO1=2	CO2=2	CO3=2	CO4=2	CO5=2	
1	1SV20IS001	BHAVANA S	36	36	18	18	36	17	17	18	46	9.2	9.2	9.2	9.2	9.2	30.6	30.6	30.6	30.6	29.6	2	2	2	2	2	
2	1SV20IS002	DARSHAN NAYAK B M	32	32	18	18	36	19	19	38	52	10.4	10.4	10.4	10.4	10.4	28.77	24.77	28.77	28.77	29.77	2	2	2	2	2	
3	1SV20IS003	DEEPA R ARADHYA MATA	0	0			0			0	69	13.8	13.8	13.8	13.8	13.8	1.6	1.6	1.6	1.6	1.6	2	2	2	2	2	
4	1SV20IS004	DHAVALASHREE B JAIN	40	40	20	14	34	10	18	28	76	15.2	15.2	15.2	15.2	15.2	31.93	31.93	31.93	25.93	21.93	2	2	2	2	2	
5	1SV20IS005	HEMANTH SANGAM M	36	36	16	16	32	19	19	38	23	4.6	4.6	4.6	4.6	4.6	35.6	31.6	31.6	31.6	34.6	2	2	2	2	2	
6	1SV20IS006	KEERTHANA N	31	31	20	20	40	20	20	40	42	8.4	8.4	8.4	8.4	8.4	29.6	26.6	32.6	32.6	32.6	2	2	2	2	2	
7	1SV20IS008	NETHRAVATHI K E	25	25	18	20	38	20	20	40	0	0	0	0	0	0	26.27	23.27	30.27	32.27	32.27	2	2	2	2	2	
8	1SV20IS009	NITHIN D G	0	0	5	5	10	16	16	32	33	6.6	6.6	6.6	6.6	6.6	6.6	6.6	11.6	11.6	22.6	2	2	2	2	2	
9	1SV20IS010	REKHA	15	15	0	0	0	16	16	32	61	12.2	12.2	12.2	12.2	12.2	19.93	20.93	12.93	12.93	28.93	2	2	2	2	2	
10	1SV20IS011	REVATHI P O	27	27	12	12	24	17	17	34	65	13	13	13	13	13	25.1	22.1	22.1	22.1	27.1	2	2	2	2	2	
11	1SV20IS012	SHESHADRI T	4	4	0	0	0	20	20	40	66	13.2	13.2	13.2	13.2	13.2	7.933	7.933	5.933	5.933	25.93	2	2	2	2	2	
12	1SV20IS013	SUDEEP R V S	32	32	16	15	31	18	18	36	40	8	8	8	8	8	30.27	32.27	31.27	30.27	33.27	2	2	2	2	2	
13	1SV20IS014	THOUHID J K	40	40	19	19	38	20	20	40	23	4.6	4.6	4.6	4.6	4.6	36.6	36.6	35.6	35.6	36.6	2	2	2	2	2	
																AVG		19.43	18.55	19.18	18.86	22.3					
																PERCENT		35.97	54.56	56.40	55.48	65.59					

for


S. Subal. G. R.
 HOD
 Information Science
 and
 Engineering
 SIET, TUMAKURU-572106


 PRINCIPAL
 SIET, TUMKUR.

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

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	49.7	1.5	1.5	1.0	1.0	1.0						1.5	1.0			
CO2	53.7	1.6	1.6	1.1	1.1	0.5	1.1					1.1	0.5	1.1	0.5	
CO3	56.3	1.7	1.7	1.7	1.1	1.1						0.6	0.6			
CO4	52.1	1.6	1.6	1.6	1.6	1.0			0.5	1.6		1.6	1.6	1.6	1.0	
AVERAGE		1.6	1.6	1.35	1.2	1.13			0.5	1.6		1.4	0.93	1.1	0.75	
FINAL ATTAINMENT LEVEL																1.19

Prof. Shanmukaswamy C V

Subhas C. K.

1205
 DEPT. OF ISE
 SVKM'S INSTITUTION OF
 TECHNOLOGY

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

CLASS:5TH SEM CSE

Course Name :Unix Programming [18CS56]

Roll No.	USN	Name	IA TEST I		IA TEST II		IA TEST III		Assignment[10/4]				SEE[60]	SEE [60]				Final CO.s				Individual student
			CO1 15	CO2 15	CO2 15	CO3 15	CO4 15	CO4 15	CO1 2	CO2 2	CO3 3	CO4 3		CO1 15	CO2 15	CO3 15	CO4 15	CO1 32	CO2 47	CO3 33	CO4 48	
1	1SV20IS001	BHAVANA S	10	10	4	4	9	9	2	2	3	3	25	6	6	6	7	18	22	13	28	48
2	1SV20IS002	DARSHAN NAYAK B M	10	7	8	8	12	12	2	2	3	3	37	10	9	9	9	22	26	20	36	62
3	1SV20IS003	DEEPA R ARADHYA	11	11	12	12	10	9	2	2	3	3	43	10	11	11	11	23	36	26	33	70
4	1SV20IS004	DHAVALASHREE B JAIN	15	14	12	12	10	10	2	2	3	3	26	6	6	7	7	23	34	22	30	64
5	1SV20IS005	HEMANTH SANGAM M	0	0	12	11	4	4	2	2	3	3	0	0	0	0	0	2	14	14	11	24
6	1SV20IS006	KEERTHANA N	12	11	9	9	5	4	2	2	3	3	26	7	7	6	6	21	29	18	18	51
7	1SV20IS008	NETHRAVATHI K E	0	0	9	8	14	13	2	2	3	3	AB	AB	AB	AB	AB	0	0	0	0	0
8	1SV20IS009	NITHIN D G	4	4	13	13	6	5	2	2	3	3	17	4	4	4	5	10	23	20	19	43
9	1SV20IS010	REKHA	10	11	10	9	10	10	2	2	3	3	31	8	8	8	7	20	31	20	30	60
10	1SV20IS011	REVATHI P O	13	13	12	13	8	7	2	2	3	3	24	6	6	6	6	21	33	22	24	59
11	1SV20IS012	SHESHADRI T	5	5	7	7	6	6	2	2	3	3	12	3	3	3	3	10	17	13	18	34
12	1SV20IS013	SUDEEP R V S	7	7	4	5	10	10	2	2	3	3	33	8	8	8	9	17	21	16	32	51
13	1SV20IS014	THOUHID J K	0	0	13	14	8	8	2	2	3	3	8	2	2	2	2	4	17	19	21	36
																	15.9	25.3	18.6	25		
																	12	12	12	12		
																	49.7	53.7	56.3	52.1		

Attainment

Prof. Shambhukrishna Sivanayya

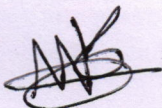
Subhas C. K
HOD
Dept. of ISE
SIET, Tumkur-06.


Manjunath Kumar
PRINCIPAL
SIET, TUMKUR.

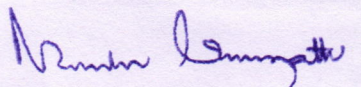
COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY														
FACULTY NAME	Mrs KOTRAMMA MATHADA														
BRANCH					ISE					ACADEMIC YEAR			2022-23		
COURSE	B.E	SEMESTER			VII			SECTION			B				
SUBJECT	Artificial Intelligence and Machine Learning							SUBJECT CODE			18CS71				

<u>CO-PO-PSO MAPPING:</u>															
CO No.	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO12	PSO1	PSO 2	PSO 3
CO1	2	1	1	-	1	-	-	-	-	-	-	1	2	-	-
CO2	2	2	1	-	1	-	-	-	-	-	-	1	2	-	-
CO3	2	2	1	-	1	-	-	-	-	-	-	1	2	-	-
Avg	2	1.8	1	-	1	-	-	-	-	-	-	1	2	-	-
Mapping Average = 1.466															

<u>CO-PO-PSOATTAINMENT:</u>																
CO No.	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	50.43	1	0.5	0.5	-	0.5	-	-	-	-	-	-	0.5	1	-	-
CO2	69.47	1.38	1.38	0.69	-	0.69	-	-	-	-	-	-	0.69	1.38	-	-
CO3	73.74	1.47	1.47	0.73	-	0.73	-	-	-	-	-	-	0.73	1.47	-	-
Avg		1.28	1.11	0.64	-	0.64	-	-	-	-	-	-	0.64	1.11	-	-
Attainment average = 0.90																


STAFF INCHARGE


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


PRINCIPAL
SIET, TUMAKURU

Roll No.	USN	Name	18CS71			2022-23 ODD			VII SEM B SECTION ISE			PROF. KOTRAMMA MATHADA						Final		
			T1	T2	T3	CO1-30	CO2-30	CO3-30	CO1	CO2	CO3	60 MARKS	SEE			CO1=53	CO2	CO3		
			T1	T2	T3	CO1	CO2	CO3	CO1	CO2	CO3	SIE	CO1	CO2	CO3	CO1=53	CO2	CO3		
1	1SV18IS001	YASHASWINI K N	26	25	27	26	25	27	3	3	4	48	16	16	16	45	44	47	45.33333	
2	1SV19IS001	ABHISHEK V	22	19	30	22	19	30	3	3	4	33	11	11	11	25	33	45	34.33333	
3	1SV19IS002	B S CHAITHRA	25	24	29	25	24	29	3	3	4	35	11.7	11.7	11.7	28	38.7	44.7	37.13333	
4	1SV19IS003	BINDUSHREE T N	26	27	28	26	27	28	3	3	4	44	14.7	14.7	14.7	29	44.7	46.7	40.13333	
5	1SV19IS005	H RANJITHA	24	26	26	24	26	26	3	3	4	15	5	5	5	27	34	35	32	
6	1SV19IS006	HAMEEDA BANU	25	22	26	25	22	26	3	3	4	35	11.7	11.7	11.7	28	36.7	41.7	35.46667	
7	1SV19IS007	JOSHNI P S	26	23	25	26	23	25	3	3	4	30	10	10	10	29	36	39	34.66667	
8	1SV19IS008	MAMATHASHREE H	29	15	15	29	15	15	3	3	4	27	9	9	9	32	27	28	29	
9	1SV19IS009	MD ASIF HUSSAIN	21	24	30	21	24	30	3	3	4	33	11	11	11	24	38	45	35.66667	
10	1SV19IS010	MUSKAN W	25	29	29	25	29	29	3	3	4	35	11.7	11.7	11.7	28	43.7	44.7	38.8	
11	1SV19IS011	NISHIMA M N	26	24	21	26	24	21	3	3	4	34	11.3	11.3	11.3	29	38.3	36.3	34.53333	
12	1SV19IS012	PRIYA AGADI	29	29	30	29	29	30	3	3	4	43	14.3	14.3	14.3	32	46.3	48.3	42.2	
13	1SV19IS013	RAVITEJA S	30	29	30	30	29	30	3	3	4	36	12	12	12	33	44	46	41	
14	1SV19IS014	SAHANA Y GOWDA	16	24	15	16	24	15	3	3	4	15	5	5	5	19	32	24	25	
15	1SV19IS015	SAI PAVAN	21	15	15	21	15	15	3	3	4	30	10	10	10	24	28	29	27	
16	1SV19IS016	SHIVAKUMAR B C	17	23	29	17	23	29	3	3	4	0	0	0	0	20	26	33	26.33333	
17	1SV19IS017	SHREEDHARA GANACHARI	18	24	30	18	24	30	3	3	4	38	12.7	12.7	12.7	21	39.7	46.7	35.8	
18	1SV19IS018	SINCHANA K M	17	25	21	17	25	21	3	3	4	22	7.3	7.3	7.3	20	35.3	32.3	29.2	
19	1SV19IS019	SINDHUSHREE K O	26	26	30	26	26	30	3	3	4	42	14	14	14	29	43	48	40	
20	1SV19IS020	SNEHA H T	13	21	26	13	21	26	3	3	4	29	9.7	9.7	9.7	16	33.7	39.7	29.8	
21	1SV19IS022	THANMAYI P	25	26	30	25	26	30	3	3	4	35	11.7	11.7	11.7	28	40.7	45.7	38.13333	
22	1SV19IS023	THANUJA M	25	26	30	25	26	30	3	3	4	39	13	13	13	28	42	47	39	
23	1SV19IS024	VAISHNAVI C S	23	24	24	23	24	24	3	3	4	21	7	7	7	26	34	35	31.66667	
24	1SV19IS025	VARSHITHA R	21	23	17	21	23	17	3	3	4	28	9.3	9.3	9.3	24	35.3	30.3	29.86667	
25	1SV19IS026	VENKATESH M KAMBLE	23	21	30	23	21	30	3	3	4	9	3	3	3	26	27	37	30	
26	1SV19IS027	VINAY KUMAR K S	22	23	26	22	23	26	3	3	4	31	10.3	10.3	10.3	25	36.3	40.3	33.86667	
Total students=26																26.73077	36.82308	39.82308		

(Kotramma Mathada)

Sutras G. K.
 HOD
 Dept. of ISE
 SIET, Tumkur-06.

Principal
 PRINCIPAL
 SIET. TUMKUR.



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

Course Outcomes & CO-PO-PSO Mapping and Justification

Subject	BigDataandAnalytics	18CS72
COURSE OUTCOMES:		
CONo.	On completion of this course, students will be able to:	Cognitive Level
18CS72.1	Understand fundamentals of Big Data analytics.	L2
18CS72.2	Understand Hadoop framework and Hadoop Distributed Filesystem.	L2
18CS72.3	Illustrate the concepts of NoSQL using MongoDB and Cassandra for Big Data.	L2
18CS72.4	Demonstrate the MapReduce programming model to process the big data along with Hadoop tools.	L2
18CS72.5	Apply machine learning algorithms for real world big data, web contents, and Social Networks to provide analytics with relevant visualization tools.	L3

Dept of ISE, SIET – Program Specific Outcome PSO

PSO1	To create, select, and apply appropriate techniques, resources, modern engineering, and IT tools including prediction and modeling 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

CO-PO-PSO MAPPING

CONo.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
18CS72.1	2	-	-	1	-	-	-	-	-	-	-	1	1	1	1
18CS72.2	2	-	1	1	-	-	-	-	-	-	-	1	1	-	-
18CS72.3	2	-	2	1	-	-	-	-	-	-	-	1	1	-	-
18CS72.4	2	1	2	1	-	-	-	-	-	-	-	1	1	-	1
18CS72.5	2	2	2	1	-	-	-	-	-	-	-	1	1	-	1
Avg. Mapping	2.0	1.5	1.75	1.0	-	-	-	-	-	-	-	1.0	1.0	0.2	0.6

Course Coordinator
Dr Dinesha H A

SEM: VII, SEC: B	IA TEST 1				IA TEST 2			IA TEST 3			assignment=10/5					SUB:BDA											
USN	CO1	CO2	CO3	TOT AL	CO2	CO3	TOT AL	CO4	CO5	TOT AL	CO1	CO2	CO3	CO4	CO5	SEE	CO1	CO2	CO3	CO4	CO5	CO1-34	CO2-44	CO3-49	CO4-34	CO5-34	AVG
1SV18IS001	15	10	10	35	20	11	29	20	15	27	2	2	2	2	2	31	7	6	6	6	6	24	38	29	28	23	78.9
1SV19IS001	15	5	4	24	20	15	25	15	13	25	2	2	2	2	2	37	8	8	8	7	6	25	35	29	24	21	74.4
1SV19IS002	15	10	14	39	15	12	27	16	15	36	2	2	2	2	2	33	7	7	7	6	6	24	34	35	24	23	77.8
1SV19IS003	10	5	4	19	10	6	23	14	14	36	2	2	2	2	2	8	2	2	1	1	1	14	19	13	17	17	44.4
1SV19IS005	10	5	4	19	16	10	28	20	14	32	2	2	2	2	2	50	7	7	6	6	6	19	30	22	28	22	67.2
1SV19IS006	16	10	10	36	4	4	36	15	8	37	2	2	2	2	2	46	10	9	9	9	9	28	25	25	26	19	68.3
1SV19IS007	10	10	8	27	30	10	33	20	14	23	2	2	2	2	2	34	7	7	7	7	6	19	49	27	29	22	81.1
1SV19IS008	20	10	7	21	20	16	17	18	18	24	2	2	2	2	2	29	7	6	6	5	5	29	38	31	25	25	82.2
1SV19IS009	10	5	6	21	10	10	29	20	15	35	2	2	2	2	2	33	7	7	7	6	6	19	24	25	28	23	66.1
1SV19IS010	10	10	8	28	10	6	36	18	14	36	2	2	2	2	2	41	9	8	8	8	8	21	30	24	28	24	70.6
1SV19IS011	10	5	5	20	18	15	20	15	15	19	2	2	2	2	2	26	6	5	5	5	5	18	30	27	22	22	66.1
1SV19IS012	20	10	9	39	10	6	30	10	6	40	2	2	2	2	2	44	9	9	9	9	8	31	31	26	21	16	69.4
1SV19IS013	16	10	10	36	10	4	36	10	2	40	2	2	2	2	2	40	8	8	8	8	8	26	30	24	20	12	62.2
1SV19IS014	12	14	2	16	6	6	18	20	15	27	2	2	2	2	2	26	6	5	5	5	5	20	27	15	27	22	61.7
1SV19IS015	15	10	10	20	20	19	12	20	18	9	2	2	2	2	2	45	9	9	9	9	9	26	41	40	31	29	92.8
1SV19IS016	20	10	10	27	19	19	29	20	20	36	2	2	2	2	2		9	9	9	9	8	31	40	40	31	30	95.6
1SV19IS017	11	10	10	24	20	15	31	20	15	28	2	2	2	2	2	31	7	6	6	6	6	20	38	33	28	23	78.9
1SV19IS018	10	5	5	24	18	18	36	14	10	39	2	2	2	2	2	36	8	8	8	6	6	20	33	33	22	18	70.0
1SV19IS019	15	5	6	32	12	12	31	20	14	40	2	2	2	2	2	37	8	8	7	7	7	25	27	27	29	23	72.8
1SV19IS020	10	5	5	19	15	15	31	20	14	31	2	2	2	2	2	39	8	8	8	8	7	20	30	30	30	23	73.9
1SV19IS022	20	10	8	40	16	15	32	20	20	37	2	2	2	2	2	39	8	8	8	8	7	30	36	33	30	29	87.8
1SV19IS023	10	5	5	40	10	2	31	20	14	36	2	2	2	2	2	45	9	9	9	9	9	21	26	18	31	25	67.2
1SV19IS024	15	10	3	32	15	16	27	20	15	28	2	2	2	2	2	24	5	5	5	5	4	22	32	26	27	21	71.1
1SV19IS025	10	4	2	20	18	6	20	20	12	35	2	2	2	2	2	27	6	6	6	5	4	18	30	16	27	18	60.6
1SV19IS026	0	0	0	24	14	18	21	15	14	32	2	2	2	2	2	30	6	6	6	6	6	8	22	26	23	22	56.1
1SV19IS027	10	5	5	28	18	10	37	14	14	21	2	2	2	2	2	38	7	7	6	6	6	19	32	23	22	22	65.6
TOTAL	335	198	170	710	394	296	725	454	358	809						38	7	7	6	6	6	19	32	23	22	22	65.6
Total students	28			28	28	28	28	28	28	28												577	827	697	678	574	1863
Average																						28	28	28	28	28	
																						22.2	31.8	26.8	26.1	22.1	
																						65.3	72.3	54.7	76.7	64.9	66.78

Drinker

Subst. Cric

HOD
Dept. of ISE
SIET, Tumkur-09.

Manjunath
PRINCIPAL
SIET, TUMKUR.



Department of Information Science and Engineering

COURSE OUTCOME

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

PROGRAM OUTCOMES

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

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	Mr SUTHAN R											
BRANCH	CSE			ACADEMIC YEAR				2022-23				
COURSE	B.E	SEMESTER			VII	SECTION			B			
SUBJECT	CRYPTOGRAPHY						SUBJECT CODE			18CS744		
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2							2			2	
CO2		3										
CO3					2							
CO4		2										
CO5												
AVERAGE	2	2.5			2			2			2	
OVERALL MAPPING OF SUBJECT												2.1

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	63.62	1.27							1.27			1.27	
CO2	72.11		2.16										
CO3	71.29					1.43							
CO4	77.90		1.56										
CO5	77.35												
AVERAGE	72.45	1.27	1.86			1.43			1.27			1.27	
FINAL ATTAINMENT LEVEL													1.42



DEPARTMENT OF COMPUTER SCIENCE

SUBJECT	USER INTERFACE DESIGN	SUBJECT CODE	18CS734
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COURSE OUTCOME

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

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

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

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

PROGRAM OUTCOMES

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

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

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

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

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

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

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

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

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

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

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

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

CO AND PO ATTAINMENT

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

	PSO1	PSO2	PSO3
CO1	2	2	2
AVERAGE	2	2	2

Academic year	2022-23		SEM		Total strength		57				Total CO's Attainment
SEM:7th_SEC:B (CSE/ISE)	IA TEST 1(30M)		IA TEST 2(30M)		IA TEST 3(30M)		ASSIGNMENT / QUIZ(10 M)	SEE MARKS(60)	% of individual CO		Total CO's Attainment
USN	CO1	TOTAL	CO1	TOTAL	CO1	TOTAL	CO1	CO1=60	CO1=160	CO1	CO1
1SV19CS064	30	30	27	27	29	29	10	40	85	136	
1SV19CS065	24	24	21	21	30	30	10	31	72.5	116	
1SV19CS066	17	17	27	27	23	23	10	37	71.25	114	
1SV19CS067	26	26	27	27	23	23	10	26	70	112	
1SV19CS068	29	29	23	23	21	21	10	41	77.5	124	
1SV19CS069	24	24	26	26	30	30	10	36	78.75	126	
1SV19CS070	30	30	27	27	30	30	10	39	85	136	
1SV19CS071	26	26	27	27	29	29	10	39	81.875	131	
1SV19CS072	26	26	29	29	24	24	10	32	75.625	121	
1SV19CS074	23	23	27	27	26	26	10	42	80	128	
1SV19CS076	26	26	27	27	26	26	10	35	77.5	124	
1SV19CS077	15	15	23	23	24	24	10	23	59.375	95	
1SV19CS079	10	10	0	0	26	26	10	35	50.625	81	
1SV19CS081	27	27	30	30	27	27	10	40	83.75	134	
1SV19CS082	30	30	27	27	29	29	10	45	88.125	141	
1SV19CS083	30	30	30	30	30	30	10	38	86.25	138	
1SV19CS084	21	21	27	27	30	30	10	44	82.5	132	
1SV19CS085	24	24	24	24	24	24	10	24	66.25	106	
1SV19CS086	30	30	29	29	30	30	10	42	88.125	141	
1SV18CS002	0	0	18	18	23	23	10	27	48.75	78	
1SV18CS006	30	30	25	25	27	27	10	37	80.625	129	
1SV18CS009	24	24	21	21	27	27	10	15	60.625	97	
1SV18CS012	30	30	29	29	29	29	10	33	81.875	131	
1SV18CS018	27	27	24	24	21	21	10	47	80.625	129	
1SV18CS034	25	25	27	27	24	24	10	42	80	128	
1SV18CS047	27	27	27	27	21	21	10	32	73.125	117	
1SV20CS400	27	27	15	15	27	27	10	40	74.375	119	
1SV20CS401	21	21	24	24	23	23	10	28	66.25	106	
1SV19IS001	0	0	30	30	29	29	10	35	65	104	
1SV19IS002	24	24	24	24	30	30	10	21	68.125	109	
1SV19IS003	27	27	27	27	30	30	10	32	78.75	126	
1SV19IS005	23	23	12	12	26	26	10	24	59.375	95	
1SV19IS006	29	29	26	26	26	26	10	35	78.75	126	
1SV19IS007	24	24	29	29	29	29	10	39	81.875	131	
1SV19IS008	26	26	29	29	24	24	10	24	70.625	113	
1SV19IS009	23	23	20	20	27	27	10	23	64.375	103	
1SV19IS010	24	24	20	20	29	29	10	21	65	104	
1SV19IS011	27	27	27	27	29	29	10	51	90	144	
1SV19IS012	24	24	26	26	24	24	10	37	75.625	121	
1SV19IS013	30	30	30	30	30	30	10	44	90	144	
1SV19IS014	30	30	30	30	30	30	10	47	91.875	147	
1SV19IS015	15	15	23	23	23	23	10	21	57.5	92	
1SV19IS016	23	23	23	23	14	14	10	30	62.5	100	
1SV19IS017	26	26	27	27	29	29	10	30	76.25	122	
1SV19IS018	21	21	20	20	23	23	10	41	71.875	115	
1SV19IS019	24	24	29	29	27	27	10	45	84.375	135	
1SV19IS020	26	26	21	21	27	27	10	35	74.375	119	
1SV19IS022	23	23	29	29	29	29	10	34	78.125	125	
1SV19IS023	30	30	27	27	30	30	10	29	78.75	126	
1SV19IS024	30	30	27	27	30	30	10	33	81.25	130	
1SV19IS025	30	30	29	29	28	28	10	39	85	136	
1SV19IS026	27	27	20	20	26	26	10	44	79.375	127	
1SV19IS027	30	30	24	24	24	24	10	38	78.75	126	
1SV18IS001	30	30	20	20	30	30	10	41	81.875	131	

30.9027778

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Suresh G.K
HOD
Information Science
and Engineering
SIET, TUMAKURU-572106.

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PRINCIPAL
SIET, TUMKUR.

AY: 2022-23

EVEN

Department of Information Science and Engineering

2022-2023

COURSE OUTCOMES

COURSE: DESIGN AND ANALYSIS OF ALGORITHMS (21CS42)

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

PROGRAM OUTCOMES

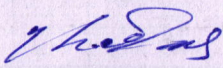
- PO1. Engineering knowledge: An ability to apply knowledge of mathematics (including probability, Statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
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- PO6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, Health, safety, legal, and cultural issues.
- PO7. Environment and sustainability: Understand the impact of the professional engineering solutions in Societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable Development.
- PO8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of The engineering practice.
- PO.9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse Teams, and in multidisciplinary settings.
- PO10. Communication: Communicate effectively on complex engineering activities with the engineering Community and with the society.
- PO11. Project management and finance: An ability to use the modern engineering tools, techniques, skills And management principles to do work as a member and leader in a team, to manage projects in Multidisciplinary environments.
- PO12. Life-long learning: recognition of the need for, and an ability to engage in, to resolve Contemporary issues and acquire lifelong learning.

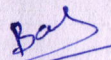
COLLEGE		SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY													
FACULTY NAME		Mr. CHETHAN M S													
BRANCH		ISE				ACADEMIC YEAR						2022-2023			
COURSE	B.E	SEMESTER				IV		SECTION				B			
SUBJECT	DESIGN AND ANALYSIS OF ALGORITHMS						SUBJECT CODE				21CS42				
CO & PO MAPPING									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

CO AND PO ATTAINMENT

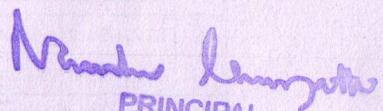
	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	57.8	1.73	1.15	0.57	0.57								1.15	1.73	1.15	1.73
CO2	73.3	2.19	1.46	2.19	1.46								1.46	2.19	1.46	1.46
CO3	72.2	2.16	1.44	2.16	1.44								1.44	2.16	2.16	1.44
CO4	67.3	2.01	1.34	2.01	1.34								1.34	2.01	2.01	1.34
CO5	66.4	1.99	1.32	1.99	1.32								1.32	1.99	1.32	1.99
AVERAGE		2.01	1.34	1.78	1.22								1.34	2.01	1.62	1.59
FINAL ATTAINMENT LEVEL													1.61			

Roll No.	USN	Name	21CS42			T1	T2			T3		ASSIGNMENT 10 + Practical 20					EXTERNAL					Final					TOTAL AVG			
			T1	T2	T3	CO1-20	CO2-10	CO3-10	CO4-10	CO5-10	CO1-6	CO2-6	CO3-6	CO4-6	CO5-6	SEE (50)	CO1-10	CO2-10	CO3-10	CO4-10	CO5-10	CO1-36	CO2-26	CO3-26	CO4-26	CO5-26				
29	ISV21IS030	SYED SUHAIL AHAMED	9	12	6	9	6	6	3	3	6	6	6	6	6	21	4.2	4.2	4.2	4.2	4.2	19.2	16.2	16.2	13.2	13.2	15.6			
30	ISV21IS031	THARUN M S	11	15	4	11	7	8	2	2	6	6	6	6	6	24	4.8	4.8	4.8	4.8	4.8	21.8	17.8	18.8	12.8	12.8	16.8			
31	ISV21IS032	THEJASWINI M	9	17	17	9	8	9	10	7	6	6	6	6	6	37	7.4	7.4	7.4	7.4	7.4	22.4	21.4	22.4	23.4	20.4	22			
32	ISV21IS033	VARSHA K V	5	19	13	5	10	9	6	7	6	6	6	6	6	27	5.4	5.4	5.4	5.4	5.4	16.4	21.4	20.4	17.4	18.4	18.8			
33	ISV21IS034	VARSHINIMEGHA	11	20	13	11	10	10	6	7	6	6	6	6	6	26	5.2	5.2	5.2	5.2	5.2	22.2	21.2	21.2	17.2	18.2	20			
34	ISV21IS035	VINUTHA H N	14	19	20	14	10	9	10	10	6	6	6	6	6	31	6.2	6.2	6.2	6.2	6.2	26.2	22.2	21.2	22.2	22.2	22.8			
35	ISV21IS036	VISHNU R	15	19	19	15	10	9	9	10	6	6	6	6	6	21	4.2	4.2	4.2	4.2	4.2	25.2	20.2	19.2	19.2	20.2	20.8			
36	ISV21IS037	YASHAS D R	14	19	17	14	10	9	8	9	6	6	6	6	6	38	7.6	7.6	7.6	7.6	7.6	27.6	23.6	22.6	21.6	22.6	23.6			
37	ISV22IS400	CHEETHAN V	6	9	19	6	5	4	10	9	6	6	6	6	6	14	2.8	2.8	2.8	2.8	2.8	14.8	13.8	12.8	18.8	17.8	15.6			
38	ISV22IS401	HONNESH KUMAR	14	13	11	14	6	7	6	5	6	6	6	6	6	23	4.6	4.6	4.6	4.6	4.6	24.6	16.6	17.6	16.6	15.6	18.2			
39	ISV22IS402	NAVEEN D R	10	9	17	10	4	5	10	7	6	6	6	6	6	25	5	5	5	5	5	21	15	16	21	18	18.2			
40	ISV22IS403	SWETHA N	5	18	16	5	10	8	10	6	6	6	6	6	6	12	2.4	2.4	2.4	2.4	2.4	13.4	18.4	16.4	18.4	14.4	16.2			
																					20.82	19.07	18.77	17.495	17.27					
																					57.8%	73.3%	72.2%	67.3%	66.4%					


STAFF SIGNATURE


HOD, ISE

HOD
Information Science


PRINCIPAL
SIET, TUMKUR.

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

SUB:Design & Analysis of Algorithm			Sem:IV								2022-23					EVEN					FACULTY:Mr.Chethan M S					TOTAL AVG	
Roll No.	USN	Name	21CS42			T1	T2			T3		ASSIGNMENT 10 + Practical 20					EXTERNAL					Final					
			T1	T2	T3	CO1-20	CO2-10	CO3-10	CO4-10	CO5-10	COI-6	CO2-6	CO3-6	CO4-6	CO5-6	SEE (50)	COI-10	CO2-10	CO3-10	CO4-10	CO5-10	COI-36	CO2-26	CO3-26	CO4-26		CO5-26
1	ISV21IS001	ABDUL HADY	16	20	18	16	10	10	10	8	6	6	6	6	6	18	3.6	3.6	3.6	3.6	3.6	25.6	19.6	19.6	19.6	17.6	20.4
2	ISV21IS002	ABHIJITH B N	6	17	7	6	10	7	4	3	6	6	6	6	6	33	6.6	6.6	6.6	6.6	6.6	18.6	22.6	19.6	16.6	15.6	18.6
3	ISV21IS003	ABHISHEK BASAVARAJ	7	15	12	7	7	7	6	6	6	6	6	6	23	4.6	4.6	4.6	4.6	4.6	17.6	17.6	17.6	16.6	16.6	17.2	
4	ISV21IS004	DAKSHITH S	13	16	19	13	8	8	10	9	6	6	6	6	6	26	5.2	5.2	5.2	5.2	5.2	24.2	19.2	19.2	21.2	20.2	20.8
5	ISV21IS005	DANESHWARI	4	10	13	4	5	5	6	7	6	6	6	6	6	32	6.4	6.4	6.4	6.4	6.4	16.4	17.4	17.4	18.4	19.4	17.8
6	ISV21IS006	DEEKSHA K	18	20	19	18	10	10	10	9	6	6	6	6	6	29	5.8	5.8	5.8	5.8	5.8	29.8	21.8	21.8	21.8	20.8	23.2
7	ISV21IS007	DEEPIKA B M	12	20	20	12	10	10	10	10	6	6	6	6	6	37	7.4	7.4	7.4	7.4	7.4	25.4	23.4	23.4	23.4	23.4	23.8
8	ISV21IS008	DHISHANTH G PATEL	8	19	10	8	10	9	5	5	6	6	6	6	6	26	5.2	5.2	5.2	5.2	5.2	19.2	21.2	20.2	16.2	16.2	18.6
9	ISV21IS009	GAGANA S	8	19	10	8	10	9	5	5	6	6	6	6	6	30	6	6	6	6	6	20	22	21	17	17	19.4
10	ISV21IS010	H M PRAJWAL KUMAR	8	17	15	8	8	9	7	8	6	6	6	6	6	31	6.2	6.2	6.2	6.2	6.2	20.2	20.2	21.2	19.2	20.2	20.2
11	ISV21IS011	HARSHITHA P	16	15	12	16	8	7	6	6	6	6	6	6	6	28	5.6	5.6	5.6	5.6	5.6	27.6	19.6	18.6	17.6	17.6	20.2
12	ISV21IS012	HIMAVANTH K	12	8	3	12	4	4	0	3	6	6	6	6	6	19	3.8	3.8	3.8	3.8	3.8	21.8	13.8	13.8	9.8	12.8	14.4
13	ISV21IS013	KANTHARAJU V T	7	8	5	7	4	4	2	3	6	6	6	6	6	21	4.2	4.2	4.2	4.2	4.2	17.2	14.2	14.2	12.2	13.2	14.2
14	ISV21IS014	KEERTHANA K S	20	20	18	20	10	10	10	8	6	6	6	6	6	42	8.4	8.4	8.4	8.4	8.4	34.4	24.4	24.4	24.4	22.4	26
15	ISV21IS015	KRISHNAMURTHY P G	14	13	12	14	6	7	6	6	6	6	6	6	6	37	7.4	7.4	7.4	7.4	7.4	27.4	19.4	20.4	19.4	19.4	21.2
16	ISV21IS016	MANOJ R	2	0	6	2	0	0	3	3	6	6	6	6	6	24	4.8	4.8	4.8	4.8	4.8	12.8	10.8	10.8	13.8	13.8	12.4
17	ISV21IS017	MANOJ T	10	18	7	10	10	8	4	3	6	6	6	6	6	25	5	5	5	5	5	21	21	19	15	14	18
18	ISV21IS018	MANOJA S S	1	13	9	1	6	7	5	4	6	6	6	6	6	14	2.8	2.8	2.8	2.8	2.8	9.8	14.8	15.8	13.8	12.8	13.4
19	ISV21IS019	MARUTHI G N	7	20	8	7	10	10	4	4	6	6	6	6	6	24	4.8	4.8	4.8	4.8	4.8	17.8	20.8	20.8	14.8	14.8	17.8
20	ISV21IS021	NAVYA SHREE K S	14	19	18	14	10	9	10	8	6	6	6	6	6	24	4.8	4.8	4.8	4.8	4.8	24.8	20.8	19.8	20.8	18.8	21
21	ISV21IS022	NINGAIAH	0	0	0	0	0	0	0	0	4	4	4	4	6	0	0	0	0	0	0	4	4	4	4	6	4.4
22	ISV21IS023	NIRNAY K	1	3	3	1	3	0	0	3	6	6	6	6	6	25	5	5	5	5	5	12	14	11	11	14	12.4
23	ISV21IS024	PALLAVI D	13	20	19	13	10	10	10	9	6	6	6	6	6	34	6.8	6.8	6.8	6.8	6.8	25.8	22.8	22.8	22.8	21.8	23.2
24	ISV21IS025	RAHUL V	7	19	8	7	10	9	4	4	6	6	6	6	6	27	5.4	5.4	5.4	5.4	5.4	18.4	21.4	20.4	15.4	15.4	18.2
25	ISV21IS026	RAKSHITHA L	15	20	13	15	10	10	6	7	6	6	6	6	6	28	5.6	5.6	5.6	5.6	5.6	26.6	21.6	21.6	17.6	18.6	21.2
26	ISV21IS027	RANGANATHA G N	4	20	9	4	10	10	5	4	6	6	6	6	6	35	7	7	7	7	7	17	23	23	18	17	19.6
27	ISV21IS028	SHREEVATHSA M B	6	20	12	6	10	10	6	6	6	6	6	6	6	25	5	5	5	5	5	17	21	21	17	17	18.6
28	ISV21IS029	SOUNDARYA R	12	19	14	12	9	10	7	7	6	6	6	6	6	38	7.6	7.6	7.6	7.6	7.6	25.6	22.6	23.6	20.6	20.6	22.6

Department of Information Science and Engineering

COURSE OUTCOME

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

PROGRAM OUTCOMES

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

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY														
FACULTY NAME	MRS. LAVANYA K														
BRANCH	ISE			ACADEMIC YEAR				2022-23							
COURSE	B.E	SEMESTER		IV		SECTION				B					
SUBJECT	MICROCONTROLLER AND EMBEDDED SYSTEMS					SUBJECT CODE				21CS43					

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1					1							1	1	1	
CO2			2												
CO3	2									1		2	1	1	
CO4	2									2		1	1	1	
CO5	1									1		1			
AVERAGE	1.66		2		1					1.33		1.66	1	1	
OVERALL MAPPING OF SUBJECT												1.37			

CO - PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	74					0.74							0.74	0.74	0.74	
CO2	80			1.6												
CO3	77	1.54									0.77		1.54	0.77	0.77	
CO4	77	1.54									1.54		0.77	0.77	0.77	
CO5	74	0.74									0.74		0.74			
	1.27		1.6		0.74						1.02		0.94	0.76	0.76	
FINAL ATTAINMENT LEVEL													1.01			

Lavanya K

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

SUB:Microcontroller and Embedded System			Sem:IV		2022-23										EVEN					FACULTY: Mrs.Lavanya K					TOTAL AVG					
Roll No.	USN	Name	21CS43			T1	T2	T3	ASSIGNMENT 10 + Practical 20					EXTERNAL					FINAL											
			T1	T2	T3	CO1-20	CO2-10	CO3-10	CO4-10	CO5-10	CO1-6	CO2-6	CO3-6	CO4-6	CO5-6	SEE (50)	CO1-10	CO2-10	CO3-10	CO4-10	CO5-10	CO1-36	CO2-26	CO3-26		CO4-26	CO5-26			
1	1SV21IS001	ABDUL HADY	18	17	16	18	8	9	9	7	6	6	6	6	6	34	7	7	7	7	7	31	21	22	22	20	23			
2	1SV21IS002	ABHIJITH B N	13	19	16	13	10	9	8	8	6	6	6	6	6	36	7	7	7	7	7	26	23	22	21	21	23			
3	1SV21IS003	ABHISHEK BASAVARAJ ARALI	17	18	16	17	9	9	8	8	6	6	6	6	6	26	5	5	5	5	5	28	20	20	19	19	21			
4	1SV21IS004	DAKSHITH S	18	19	19	18	10	9	10	9	6	6	6	6	6	28	6	6	6	6	6	30	22	21	22	21	23			
5	1SV21IS005	DANESHWARI	12	14	13	12	8	6	7	6	6	6	6	6	27	5	5	5	5	5	23	19	17	18	17	19				
6	1SV21IS006	DEEKSHA K	19	19	20	19	10	9	10	10	6	6	6	6	6	28	6	6	6	6	6	31	22	21	22	22	23			
7	1SV21IS007	DEEPIKA B M	18	19	20	18	10	9	10	10	6	6	6	6	6	35	7	7	7	7	7	31	23	22	23	23	24			
8	1SV21IS008	DHISHANTH G PATEL	17	20	18	17	10	10	9	9	6	6	6	6	6	32	6	6	6	6	6	29	22	22	21	21	23			
9	1SV21IS009	GAGANA S	18	19	16	18	10	9	8	8	6	6	6	6	6	36	7	7	7	7	7	31	23	22	21	21	23			
10	1SV21IS010	H M PRAJWAL KUMAR	15	18	17	15	9	9	9	8	6	6	6	6	6	22	4	4	4	4	4	25	19	19	19	18	20			
11	1SV21IS011	HARSHITHA P	17	18	16	17	9	9	8	8	6	6	6	6	6	32	6	6	6	6	6	29	21	21	20	20	23			
12	1SV21IS012	HIMAVANTH K	10	17	14	10	8	9	7	7	6	6	6	6	6	29	6	6	6	6	6	22	20	21	19	19	20			
13	1SV21IS013	KANTHARAJU V T	16	18	15	16	9	9	9	6	5	5	5	6	6	29	6	6	6	6	6	27	20	20	21	18	21			
14	1SV21IS014	KEERTHANA K S	19	20	18	19	10	10	8	10	6	6	6	6	6	32	6	6	6	6	6	31	22	22	20	22	24			
15	1SV21IS015	KRISHNAMURTHY P G	12	18	18	12	9	9	9	9	6	6	6	6	6	28	6	6	6	6	6	24	21	21	21	21	21			
16	1SV21IS016	MANOJ R	12	16	17	12	8	8	9	8	5	5	5	6	6	27	5	5	5	5	5	22	18	18	20	19	20			
17	1SV21IS017	MANOJ T	16	20	15	16	10	10	8	7	5	5	5	6	6	22	4	4	4	4	4	25	19	19	18	17	20			
18	1SV21IS018	MANOJA S S	6	16	12	6	9	7	7	5	6	6	6	6	6	15	3	3	3	3	3	15	18	16	16	14	16			
19	1SV21IS019	MARUTHI G N	14	19	14	14	10	9	8	6	5	5	5	6	6	24	5	5	5	5	5	24	20	19	19	17	20			
20	1SV21IS021	NAVYA SHREE K S	19	20	19	19	10	10	10	9	6	6	6	6	6	34	7	7	7	7	7	32	23	23	23	22	24			
21	1SV21IS022	NINGAIAH	4	3	7	4	3	0	3	4	5	5	5	6	6	0	0	0	0	0	0	9	8	5	9	10	8			
22	1SV21IS023	NIRNAY K	6	13	8	6	7	6	4	4	6	5	5	5	6	20	4	4	4	4	4	16	16	15	13	14	15			
23	1SV21IS024	PALLAVI D	18	19	18	18	9	10	10	8	6	6	6	6	6	37	7	7	7	7	7	31	22	23	23	21	24			
24	1SV21IS025	RAHUL V	13	16	15	13	10	6	9	6	6	5	5	5	6	26	5	5	5	5	5	24	20	16	19	17	19			
25	1SV21IS026	RAKSHITHA L	19	20	17	19	10	10	8	9	6	6	6	6	6	29	6	6	6	6	6	31	22	22	20	21	23			
26	1SV21IS027	RANGANATHA G N	13	16	15	13	9	7	8	7	6	5	5	5	6	23	5	5	5	5	5	24	19	17	18	18	19			
27	1SV21IS028	SHREEVATHSA M B	19	19	16	19	10	9	9	7	6	6	6	6	6	45	9	9	9	9	9	34	25	24	24	22	26			
28	1SV21IS029	SOUNDARYA R	17	19	17	17	10	9	9	8	6	6	6	6	6	37	7	7	7	7	7	30	23	22	22	21	24			
29	1SV21IS030	SYED SUHAIL AHAMED	16	19	14	16	10	9	8	6	6	6	6	6	6	28	6	6	6	6	6	28	22	21	20	18	21			
30	1SV21IS031	THARUN M S	15	18	18	15	10	8	9	9	6	5	5	5	6	20	4	4	4	4	4	25	19	17	18	19	20			
31	1SV21IS032	THEJASWINI M	18	20	19	18	10	10	9	10	6	6	6	6	6	28	6	6	6	6	6	30	22	22	21	22	23			
32	1SV21IS033	VARSHA K V	16	20	18	16	10	10	9	9	6	6	6	6	6	37	7	7	7	7	7	29	23	23	22	22	24			
33	1SV21IS034	VARSHINIMEGHA	15	15	15	15	10	5	9	6	6	6	6	6	6	37	7	7	7	7	7	28	23	18	22	19	22			
34	1SV21IS035	VINUTHA H N	18	20	18	18	10	10	10	8	6	6	6	6	6	31	6	6	6	6	6	30	22	22	22	20	23			
35	1SV21IS036	VISHNU R	19	20	20	19	10	10	10	10	6	6	6	6	6	32	6	6	6	6	6	31	22	22	22	22	24			
36	1SV21IS037	YASHAS D R	16	20	17	16	10	10	8	9	6	6	6	6	6	40	8	8	8	8	8	30	24	24	22	23	25			
37	1SV22IS400	CHETHAN V	14	20	17	14	10	10	9	8	6	6	6	6	6	36	7	7	7	7	7	27	23	23	22	21	23			
38	1SV22IS401	HONNESH KUMAR	15	16	18	15	9	7	9	9	6	6	6	6	6	18	4	4	4	4	4	25	19	17	19	19	19			
39	1SV22IS402	NAVEEN D R	16	17	19	16	8	9	10	9	6	6	6	6	6	20	4	4	4	4	4	26	18	19	20	19	20			
40	1SV22IS403	SHWETHA N	15	14	7	15	8	6	7	0	6	6	6	6	6	25	5	5	5	5	5	26	19	17	18	11	18			
																					26.8	20.7	20.0	20.1	19.3					
																					74.4%	79.7%	76.8%	77.2%	74.3%					

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Sudhakar Q.R
HOD
Information Science
and Engineering
SIET, TUMAKURU-572 008

[Handwritten signature]
PRINCIPAL
SIET, TUMKUR.

Department of Information Science and Engineering

COURSE OUTCOME

- C01.** Holistic vision of life
- C02.** Socially responsible behaviour
- C03.** Environmentally responsible work
- C04.** Ethical human conduct
- C05.** Having Competence and Capabilities for Maintaining Health and Hygiene
- C06.** Appreciation and aspiration for excellence (merit) and gratitude for all

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

CO - PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	73.5		0.73										2.20	0.73	1.47	0.73
CO2	72.5								0.72					0.72		
CO3	73.7						1.47							1.47	0.73	
CO4	68.2								2.04				0.68	0.68		1.36
CO5	64							1.28					0.64	0.64		0.64
CO6	63.3	0.63	0.63		0.63				0.63					1.26	0.63	
AVERAGE		0.63	0.68		0.63		1.47	1.28	1.13				1.17	0.91	0.94	0.91
FINAL ATTAINMENT LEVEL													0.97			

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY														
FACULTY NAME	Mr. SUTHAN R														
BRANCH	ISE	ACADEMIC YEAR					2022-23								
COURSE	B.E	SEMESTER	VI	SECTION											
SUBJECT	SOFTWARE TESTING					SUBJECT CODE			18IS62						
CO & PO MAPPING															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3														
CO2	3	2													
CO3	3	2	2	2									2	3	
CO4	3	2	2	2									2	3	
CO5	3	2	2	2									2	3	
CO6	3	2											2	3	
AVERAGE	3	2	2	2									2	3	
OVERALL MAPPING OF SUBJECT												2.33			

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	76.07	2.28														
CO2	65.2	1.95	1.30													
CO3	69.2	2.07	1.38	1.38	1.38									1.38	2.07	
CO4	61.2	1.83	1.22	1.22	1.22									1.22	1.83	
CO5	70.7	2.12	1.41	1.41	1.41									1.41	2.12	
CO6	69.8	2.09	1.39												2.09	
AVERAGE		2.05	1.34	1.33	1.33									1.33	2.02	
FINAL ATTAINMENT LEVEL													1.56			



Department of Information Science and Engineering

COURSE OUTCOME

- CO1.** Understand the fundamentals of Software Testing, software lifecycle and testing role.
- CO2.** Understand specialized testing & Understand test design
- CO3.** Have the ability to Understand test management & Understand test automation & tools
- CO4.** Understand other skills in testing & getting to the next level in software testing
- CO5:** Explore the basic test issues while test the applications
- CO6:** Identify and fix the major bugs & report to the developer.

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.



Department of Information Science and Engineering

COURSE OUTCOME

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

PROGRAM OUTCOMES

- P01** Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
- P02** Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
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- 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				2022-23							
COURSE	B.E	SEMESTER			VI	SECTION									
SUBJECT	OBJECT ORIENTED MODELING AND DESIGN					SUBJECT CODE			18CS642						
CO & PO MAPPING															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1		2									2	2	1	2
CO2	1		2									2	2	1	2
CO3	1		2									2	2	1	2
CO4	1		2									2	2	1	2
CO5	1		2									2	2	1	2
AVERAGE	1		2									2	2	1	2
OVERALL MAPPING OF SUBJECT												1.66			

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	56.4	0.56		1.12									1.12	1.12	0.56	1.12
CO2	62.2	0.62		1.24									1.24	1.24	0.62	1.24
CO3	62.8	0.62		1.25									1.25	1.25	0.62	1.25
CO4	73.4	0.73		1.46									1.46	1.46	0.73	1.46
CO5	70.2	0.70		1.40									1.40	1.40	0.70	1.40
AVERAGE		0.64		1.29									1.29	1.29	0.64	1.29
FINAL ATTAINMENT LEVEL													1.07			

SUB:Object Oriented Modelling and Design			Sem:VI			2022-23					EVEN					FACULTY: Mr.Venugopal D																				
Roll No.	USN	Name	18CS642			T1					T2					T3					ASSIGNMENT 10/10					EXTERNAL					Final					TOTAL AVG
			T1	T2	T3	CO1-30	CO2-15	CO3-15	CO4-15	CO5-15	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	SEE (60)	CO1-12	CO2-12	CO3-12	CO4-12	CO5-12	CO1-44	CO2-29	CO3-29	CO4-29	CO5-29										
1	1SV20IS001	BHAVANA S	26	27	30	26	12	15	15	15	2	2	2	2	2	44	9	9	9	9	9	37	23	26	26	26	27									
2	1SV20IS002	DARSHAN NAYAK B M	17	20	28	17	12	8	14	14	2	2	2	2	2	38	8	8	8	8	8	27	22	18	24	24	23									
3	1SV20IS003	DEEPA R ARADHYA MATA	21	30	30	21	15	15	15	15	2	2	2	2	2	31	6	6	6	6	6	29	23	23	23	23	24									
4	1SV20IS004	DHAVALASHREE B JAIN	23	27	30	23	14	13	15	15	2	2	2	2	2	33	7	7	7	7	7	32	23	22	24	24	25									
5	1SV20IS005	HEMANTH SANGAM M	4	5	19	4	1	4	11	8	2	2	2	2	2	9	2	2	2	2	2	8	5	8	15	12	9									
6	1SV20IS006	KEERTHANA N	16	28	30	16	14	14	15	15	2	2	2	2	2	57	11	11	11	11	11	29	27	27	28	28	28									
7	1SV20IS008	NETHRAVATHI K E	18	23	27	18	12	11	14	13	2	2	2	2	2	0	0	0	0	0	0	20	14	13	16	15	16									
8	1SV20IS009	NITHIN D G	11	2	24	11	0	2	12	12	2	2	2	2	2	9	2	2	2	2	2	15	4	6	16	16	11									
9	1SV20IS010	REKHA	26	28	30	26	14	14	15	15	2	2	2	2	2	46	9	9	9	9	9	37	25	25	26	26	28									
10	1SV20IS011	REVATHI P O	25	30	30	25	15	15	15	15	2	2	2	2	2	32	6	6	6	6	6	33	23	23	23	23	25									
11	1SV20IS012	SHESHADRI T	18	26	26	18	13	13	13	13	2	2	2	2	2	27	5	5	5	5	5	25	20	20	20	20	21									
12	1SV20IS013	SUDEEP R V S	9	16	23	9	8	8	12	11	2	2	2	2	2	21	4	4	4	4	4	15	14	14	18	17	16									
13	1SV20IS014	THOUHID J K	10	12	17	10	6	6	12	5	2	2	2	2	2	16	3	3	3	3	3	15	11	11	17	10	13									
																					24.8	18.0	18.2	21.3	20.4											
																					56%	62%	63%	73%	70%											

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Information Science
and
Engineering
SIET, TUMAKURU-572106

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SIET, TUMKUR.

**DEPARTMENT OF INFORMATION SCIENCE AND ENGG**

SUBJECT	RENEWABLE ENERGY RESOURCES	SUBJECT CODE	18EE653
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COURSE OUTCOME

- CO1:** Discuss causes of energy scarcity and its solution, energy resources and availability of renewable energy.
- CO2:** Outline energy from sun, energy reaching the Earth's surface and solar thermal energy applications.
- CO3:** Discuss types of solar collectors, their configurations, solar cell system, its characteristics and their applications.
- CO4:** Explain generation of energy from hydrogen, wind, geothermal system, solid waste and agriculture refuse.
- CO5:** Discuss production of energy from biomass, biogas.
- CO6:** Summarize tidal energy resources, sea wave energy and ocean thermal energy.

- PSO1:** To Create, select, and apply appropriate techniques, resources, modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
- PSO2:** To manage complex IT projects with consideration of the human, financial, ethical and environmental factors and an understanding of risk management processes, and operational and policy implications.
- PSO3:** Acquaint module knowledge on emerging trends of the modern era in computer science and engineering.

PROGRAM OUTCOMES

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

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY												
FACULTY NAME	Dr. CHARAN K V												
BRANCH	ISE			ACADEMIC YEAR				2022-23					
COURSE	B.E	SEMESTER			VI	SECTION							
SUBJECT	RENEWABLE ENERGY RESOURCES					SUBJECT CODE			18EE653				
CO & PO MAPPING													
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
CO1	3	2	3	1	3			2	1	1	1	2	
CO2	3	3	3	1	1			2	1	1	1	2	
CO3	3	2	2	1	1			2	1	1	1	2	
CO4	3	2	2	1	1			2	1	1	1	2	
CO5	3	2	1	1	1			1	1	1	1	2	
CO6	3	2	1	1	1			1	1	1	1	2	
AVERAGE	3	2.16	2	1	1.33			1.66	1	1	1	2	
OVERALL MAPPING OF SUBJECT												1.34	

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	0.28	0.8565	0.571	0.857	0.2855	0.8565			0.571	0.2855	0.2855	0.2855	0.571
CO2	0.24	0.7251	0.725	0.725	0.2417	0.2417			0.4834	0.2417	0.2417	0.2417	0.4834
CO3	0.28	0.8697	0.58	0.58	0.2899	0.2899			0.5798	0.2899	0.2899	0.2899	0.5798
CO4	0.28	0.8697	0.58	0.58	0.2899	0.2899			0.5798	0.2899	0.2899	0.2899	0.5798
CO5	0.25	0.7782	0.519	0.259	0.2594	0.2594			0.2594	0.2594	0.2594	0.2594	0.5188
CO6	0.25	0.7782	0.519	0.259	0.2594	0.2594			0.2594	0.2594	0.2594	0.2594	0.5188
AVERAGE	0.265	0.817	1.545	0.558	0.272	0.558			1.4152	0.2725	1.2725	0.27245	0.5449
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

Academic year	2021-22		SEM	3rd ISE	Total strength		12	18EE653		Renewable Energy Resources																										
	IA TEST 1(30M)				IA TEST 2(30M)			IA TEST 3(30M)			ASSIGNEMENT / QUIZ(10 M)					SEE MARKS(60)					% of individual CO					Total CO's Attainment					SEE Tot					
USN	CO1	CO4	TOTAL	CO3	CO4	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1= 44	CO2= 29	CO3= 29	CO4= 29	CO5= 29	CO1	CO2	CO3	CO4	CO5	60M						
ISV20IS001	14	14	28	14.5	14.5	29	13.5	13.5	27	2	2	2	2	2	8	8	8	8	10	86.4	84.5	84.5	81.0	87.9	38	24.5	24.5	23.5	25.5	40						
ISV20IS002	14	14	28	15	15	30	15	15	30	2	2	2	2	2	6.2	6.2	6.2	6.2	7.75	82.3	80.0	80.0	80.0	85.3	36.2	23.2	23.2	23.2	24.8	31						
ISV20IS003	14	14	28	13.5	13.5	27	10	10	20	2	2	2	2	2	7.4	7.4	7.4	7.4	9.25	85.0	79.0	79.0	66.9	73.3	37.4	22.9	22.9	19.4	21.3	37						
ISV20IS004	14	14	28	14.5	14.5	29	11	11	22	2	2	2	2	2	5.2	5.2	5.2	5.2	6.5	80.0	74.8	74.8	62.8	67.2	35.2	21.7	21.7	18.2	19.5	26						
ISV20IS005	14.5	14.5	29	14.5	14.5	29	14	14	28	2	2	2	2	2	8.2	8.2	8.2	8.2	10.3	89.1	85.2	85.2	83.4	90.5	39.2	24.7	24.7	24.2	26.3	41						
ISV20IS006	14	14	28	15	15	30	12	12	24	2	2	2	2	2	10	10	10	10	12.5	90.9	93.1	93.1	82.8	91.4	40	27	27	24	26.5	50						
ISV20IS007	14	14	28	15	15	30	14.5	14.5	29	2	2	2	2	2	7.8	7.8	7.8	7.8	9.75	85.9	85.5	85.5	83.8	90.5	37.8	24.8	24.8	24.3	26.3	39						
ISV20IS008	14.5	14.5	29	14.5	14.5	29	10	10	20	2	2	2	2	2	7.8	7.8	7.8	7.8	9.75	88.2	83.8	83.8	68.3	75.0	38.8	24.3	24.3	19.8	21.8	39						
ISV20IS009	15	15	30	15	15	30	13	13	26	2	2	2	2	2	6.4	6.4	6.4	6.4	8	87.3	80.7	80.7	73.8	79.3	38.4	23.4	23.4	21.4	23	32						
ISV20IS010	14.5	14.5	29	15	15	30	14.5	14.5	29	2	2	2	2	2	8.4	8.4	8.4	8.4	10.5	89.5	87.6	87.6	85.9	93.1	39.4	25.4	25.4	24.9	27	42						
ISV20IS011	15	15	30	15	15	30	11.5	11.5	23	2	2	2	2	2	7	7	7	7	8.75	88.6	82.8	82.8	70.7	76.7	39	24	24	20.5	22.3	35						
ISV20IS012	15	15	30	15	15	30	14	14	28	2	2	2	2	2	10	10	10	10	12.5	95.5	93.1	93.1	89.7	98.3	42	27	27	26	28.5	50						

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Department of Information Science and Engineering

COURSE OUTCOME

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

PROGRAM OUTCOMES

- PO1** Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
- PO2** Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- PO3** Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.
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- PO11** Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.
- PO12** Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

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

CO - PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	75	2.25												0.75		
CO2	73	1.46	1.46											1.46		
CO3	71	1.42	1.42											0.71		
CO4	78		0.78				1.56							0.78		
CO5	70	1.4	1.4											1.4	0.70	
AVERAGE		1.63	1.26				1.56							1.02	0.70	
FINAL ATTAINMENT LEVEL													1.23			

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

SUB:Internet of Things			Sem:VIII 'B'SEC							2022-23					EVEN					FACULTY NAME:Mrs.Merlin B					TOTAL AVG		
Roll No	USN	NAME	18CS81			T1	T2	T3		ASSIGNMENT 20/5(Project Report)					EXTERNAL					FINAL							
			T1	T2	T3	CO1-20	CO2-10	CO3-10	CO4-10	CO5-10	CO1-4	CO2-4	CO3-4	CO4-4	CO5-4	SEE (60)	CO1-12	CO2-12	CO3-12	CO4-12	CO5-12	CO1-36	CO2-26	CO3-26		CO4-26	CO5-26
1	ISV18IS001	YASHASWINI K N	18	18	17	18	9	9	10	7	4	4	4	4	4	46	9.2	9.2	9.2	9.2	9.2	31	22	22	23	20	24
2	ISV19IS001	ABHISHEK V	13	14	17	13	7	7	9	8	4	4	4	4	4	43	8.6	8.6	8.6	8.6	8.6	26	20	20	22	21	21
3	ISV19IS002	B S CHAITHRA	15	19	16	15	10	9	9	7	4	4	4	4	4	28	5.6	5.6	5.6	5.6	5.6	25	20	19	19	17	20
4	ISV19IS003	BINDUSHREE T N	17	13	15	17	7	6	9	6	4	4	4	4	4	33	6.6	6.6	6.6	6.6	6.6	28	18	17	20	17	20
5	ISV19IS005	H RANJITHA	17	14	18	17	7	7	10	8	4	4	4	4	4	35	7	7	7	7	7	28	18	18	21	19	21
6	ISV19IS006	HAMEEDA BANU	18	15	18	18	8	7	10	8	4	4	4	4	4	42	8.4	8.4	8.4	8.4	8.4	30	20	19	22	20	23
7	ISV19IS007	JOSHNI P S	17	11	13	17	6	5	9	4	4	4	4	4	4	28	5.6	5.6	5.6	5.6	5.6	27	16	15	19	14	18
8	ISV19IS008	MAMATHASHREE H	15	11	14	15	6	5	9	5	4	4	4	4	4	13	2.6	2.6	2.6	2.6	2.6	22	13	12	16	12	15
9	ISV19IS009	MD ASIF HUSSAIN	12	15	14	12	8	7	8	6	4	4	4	4	4	45	9	9	9	9	9	25	21	20	21	19	21
10	ISV19IS010	MUSKAN W	20	15	17	20	8	7	8	9	4	4	4	4	4	47	9.4	9.4	9.4	9.4	9.4	33	21	20	21	22	24
11	ISV19IS011	NISHMA M N	10	16	17	10	8	8	8	9	4	4	4	4	4	41	8.2	8.2	8.2	8.2	8.2	22	20	20	20	21	21
12	ISV19IS012	PRIYA AGADI	18	19	17	18	10	9	9	8	4	4	4	4	4	51	10.2	10.2	10.2	10.2	10.2	32	24	23	23	22	25
13	ISV19IS013	RAVITEJA S	18	20	20	18	10	10	10	10	4	4	4	4	4	44	8.8	8.8	8.8	8.8	8.8	31	23	23	23	23	24
14	ISV19IS014	SAHANA Y GOWDA	12	12	14	12	6	6	9	5	4	4	4	4	4	27	5.4	5.4	5.4	5.4	5.4	21	15	15	18	14	17
15	ISV19IS015	SAI PAVAN	6	0	14	6	0	0	7	7	4	4	4	4	4	34	6.8	6.8	6.8	6.8	6.8	17	11	11	18	18	15
16	ISV19IS016	SHIVAKUMAR B C	11	13	17	11	7	6	10	7	4	4	4	4	4	33	6.6	6.6	6.6	6.6	6.6	22	18	17	21	18	19
17	ISV19IS017	SHREEDHARA GANACHARI	12	9	10	12	5	4	6	4	4	4	4	4	4	42	8.4	8.4	8.4	8.4	8.4	24	17	16	18	16	19
18	ISV19IS018	SINCHANA K M	16	17	17	16	9	8	10	7	4	4	4	4	4	29	5.8	5.8	5.8	5.8	5.8	26	19	18	20	17	20
19	ISV19IS019	SINDHUSHREE K O	18	17	17	18	9	8	10	7	4	4	4	4	4	35	7	7	7	7	7	29	20	19	21	18	21
20	ISV19IS020	SNEHA H T	16	14	16	16	7	7	10	6	4	4	4	4	4	45	9	9	9	9	9	29	20	20	23	19	22
21	ISV19IS022	THANMAYI P	19	18	17	19	9	9	10	7	4	4	4	4	4	44	8.8	8.8	8.8	8.8	8.8	32	22	22	23	20	24
22	ISV19IS023	THANUJA M	19	16	18	19	8	8	10	8	4	4	4	4	4	38	7.6	7.6	7.6	7.6	7.6	31	20	20	22	20	22
23	ISV19IS024	VAISHNAVI C S	19	16	16	19	8	8	9	7	4	4	4	4	4	44	8.8	8.8	8.8	8.8	8.8	32	21	21	22	20	23
24	ISV19IS025	VARSHITHA R	16	13	10	16	7	6	5	5	4	4	4	4	4	38	7.6	7.6	7.6	7.6	7.6	28	19	18	17	17	19
25	ISV19IS026	VENKATESH M KAMBLE	11	15	10	11	8	7	6	4	4	4	4	4	4	40	8	8	8	8	8	23	20	19	18	16	19
26	ISV19IS027	VINAY KUMAR K S	17	11	15	17	6	5	9	6	4	4	4	4	4	35	7	7	7	7	7	28	17	16	20	17	20

26.9	19.0	18.4	20.3	18.3
74.8%	72.9%	70.7%	78.3%	70.3%

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COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY															
FACULTY NAME	Mr. SUTHAN R															
BRANCH	ISE			ACADEMIC YEAR				2022-23								
COURSE	B.E	SEMESTER			VIII	SECTION										
SUBJECT	STORAGE AREA NETWORKS				SUBJECT CODE			18CS822								
CO & PO MAPPING																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	
CO1	3	2											2			
CO2	1	2	2									1				
CO3	2												2		2	
CO4	2		2		1	1							1	1	2	
AVERAGE	2	2	2		1	1							1	1.25	1	2
OVERALL MAPPING OF SUBJECT												1.47				

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	
CO1	77.6	2.32	1.55											1.55			
CO2	76.4	0.76	1.52	1.52									0.76				
CO3	76.9	1.53												1.53		1.53	
CO4	59.7	1.19		1.19		0.59	0.59							0.59	0.59	1.19	
AVERAGE		1.45	1.53	1.35		0.59	0.59							0.76	1.22	0.59	1.36
FINAL ATTAINMENT LEVEL													1.04				

S. Suthan R



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.

VIII SEM "B" SECTION(ISE)

Sub: Storage Area Networks			18CS822				2022-2023				EVEN		NAME OF THE STAFF					Mr.Suthan R						
Roll No.	USN	Name	IA MARKS			T1	T2	T3		ASSIGNMENT 10/6				SEE					FINAL				TOTAL AVG	
			T1 (30)	T2 (30)	T3 (30)	CO1-30	CO2-30	CO3-15	CO4-15	CO1-3	CO2-2	CO3-3	CO4-2	SEE (60)	CO1-15	CO2-15	CO3-15	CO4-15	CO1-48	CO2-47	CO3-33	CO4-32		
1	1SV18IS001	YASHASWINI K N	15	20	23	15	20	12	11	3	2	3	2	45	11	11	11	11	29	33	26	24	28.3	
2	1SV19IS001	ABHISHEK V	15	20	23	15	20	11	12	3	2	3	2	41	10	10	10	10	28	32	24	24	27.3	
3	1SV19IS002	B S CHAITHRA	29	26	27	29	26	14	13	3	2	3	2	54	14	14	14	14	46	42	31	29	36.5	
4	1SV19IS003	BINDUSHREE T N	24	20	27	24	20	13	14	3	2	3	2	27	7	7	7	7	34	29	23	23	27.0	
5	1SV19IS005	H RANJITHA	24	27	28	24	27	12	12	3	2	3	2	46	12	12	12	12	39	41	27	26	32.8	
6	1SV19IS006	HAMEEDA BANU	29	29	29	29	29	15	14	3	2	3	2	48	12	12	12	12	44	43	30	28	36.3	
7	1SV19IS007	JOSHNI P S	23	26	21	23	26	11	10	3	2	3	2	25	6	6	6	6	32	34	20	18	26.3	
8	1SV19IS008	MAMATHASHREE H	29	19	23	29	19	12	11	3	2	3	2	23	6	6	6	6	38	27	21	19	26.0	
9	1SV19IS009	MD ASIF HUSSAIN	24	23	21	24	23	11	10	3	2	3	2	32	8	8	8	8	35	33	22	20	27.5	
10	1SV19IS010	MUSKAN W	26	27	27	26	27	14	13	3	2	3	2	57	14	14	14	14	43	43	31	29	36.8	
11	1SV19IS011	NISHMA M N	29	29	23	29	29	12	11	3	2	3	2	47	12	12	12	12	44	43	27	25	34.5	
12	1SV19IS012	PRIYA AGADI	29	29	29	29	29	15	14	3	2	3	2	55	14	14	14	14	46	45	32	30	38.0	
13	1SV19IS013	RAVITEJA S	29	29	29	29	29	15	14	3	2	3	2	36	9	9	9	9	41	40	27	25	33.3	
14	1SV19IS014	SAHANA Y GOWDA	8	21	27	8	21	12	15	3	2	3	2	21	5	5	5	5	16	28	20	22	21.8	
15	1SV19IS015	SAI PAVAN	26	20	9	26	20	6	3	3	2	3	2	35	9	9	9	9	38	31	18	14	25.0	
16	1SV19IS016	SHIVAKUMAR B C	17	2	23	17	2	12	11	3	2	3	2	33	8	8	8	8	28	12	23	21	21.3	
17	1SV19IS017	SHREEDHARA GANACHARI	17	24	16	17	24	12	12	3	2	3	2	41	10	10	10	10	30	36	25	24	29.0	
18	1SV19IS018	SINCHANA K M	29	29	29	29	29	15	14	3	2	3	2	36	9	9	9	9	41	40	27	25	33.3	
19	1SV19IS019	SINDHUSHREE K O	29	28	27	29	28	15	12	3	2	3	2	41	10	10	10	10	42	40	28	24	33.8	
20	1SV19IS020	SNEHA H T	24	24	27	24	24	14	13	3	2	3	2	21	5	5	5	5	32	31	22	20	26.5	
21	1SV19IS022	THANMAYI P	29	29	29	29	29	14	15	3	2	3	2	28	7	7	7	7	39	38	24	24	31.3	
22	1SV19IS023	THANUJA M	29	30	29	29	30	15	14	3	2	3	2	47	12	12	12	12	44	44	30	28	36.3	
23	1SV19IS024	VAISHNAVI C S	27	26	21	27	26	11	10	3	2	3	2	39	10	10	10	10	40	38	24	22	30.8	
24	1SV19IS025	VARSHITHA R	29	22	23	29	22	13	10	3	2	3	2	45	11	11	11	11	43	35	27	23	32.3	
25	1SV19IS026	VENKATESH M KAMBLE	26	26	23	26	26	12	11	3	2	3	2	33	8	8	8	8	37	36	23	21	29.5	
26	1SV19IS027	VINAY KUMAR K S	27	29	27	27	29	15	12	3	2	3	2	36	9	9	9	9	39	40	27	23	32.3	
																			37.2	35.9	25.3	19.1		
																			77.6%	76.4%	76.8%	59.7%		

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Suthan R. K
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