



Dr.T.Thimmaiah Institute of Technology

Oorgaum, K.G.F-563120

SEM	5th
Subject	Automata Theory and Computabi
Batch	2018

Name of the faculty	shalini G
Subject code:	18CS54
Total Students	74

CO'S	Description
CO1	Introduce core concepts in Automata and Theory of Computation
CO2	identify different language classes and their relationships and design Finite automata
CO3	design grammars and recognizers for different formal languages and hence design PDA
CO4	explain turing machines and design turing machines
CO5	identify different language classes and their relationships
CO6	

Grading Scale	Level
Score < 40	0
Score 40 to 45	1
Score 45 to 50	2
Score > 50	3
Target Percentage	50

CO's	T1	T2	T3	A	T	Q	Total Marks	External Marks
CO1	8			10			15	60
CO2	42	10			10		41	
CO3		40					24	
CO4			40				24	
CO5			10			10	16	
CO6							0	

Sl No	USN	Students Name
1	GV18CS001	Adhishesan K
2	GV18CS002	Aishwarya N B
3	GV18CS004	Arshiya Siddiquaa N
4	GV18CS006	Bhargav C B
5	GV18CS008	Brindha P
6	GV18CS010	Chaitanya M S
7	GV18CS011	Chaithra H
8	GV18CS012	Charushree R
9	GV18CS013	Deepika Shree R
10	GV18CS015	Dhanush N
11	GV18CS016	Dharshini R
12	GV18CS017	Divya Dharshini J
13	GV18CS020	Gagana Spoorthy R
14	GV18CS022	Harinarayan R
15	GV18CS023	Harish Prabhu
16	GV18CS024	Harshitha N S
17	GV18CS025	Hindupriya R
18	GV18CS026	K Nikhil Reddy
19	GV18CS027	Kanishka R
20	GV18CS028	Kavya G U
21	GV18CS029	Keerthana H
22	GV18CS032	Kiran Kumar A
23	GV18CS033	Laya N
24	GV18CS034	Leema Arathi C
25	GV18CS035	Malatesh D Hallakai
26	GV18CS036	Meghana M S
27	GV18CS037	Mohammed Akhil
28	GV18CS038	Monisha P
29	GV18CS039	Nanditha S
30	GV18CS040	Nikhil Kumar
31	GV18CS041	Nizba Iqra
32	GV18CS050	S B Gowtham
33	GV18CS051	S Jathish Murali
34	GV18CS057	Sandesh Raj V
35	GV18CS043	Pavithra M
36	GV18CS044	Pavithra V

CO Marks in Tests											
Test 1			A	Test 2			T	Test 3			Q
CO1	CO2		CO1	CO3	CO2		CO2	CO4	CO5		CO5
8	20		10	20	6		10	0	0		10
8	30		10	38	8		10	34	9		10
8	29		10	30	8		10	11	6		10
8	40		10	36	8		10	30	7		10
8	40		10	39	10		10	35	10		10
8	19		10	24	8		10	20	4		10
8	32		10	36	8		10	35	9		10
8	30		10	36	8		10	21	9		10
8	36		10	35	9		10	39	5		10
8	38		10	40	10		10	39	10		10
8	40		10	40	9		10	38	9		10
8	38		10	39	9		10	34	9		10
8	34		10	36	8		10	32	9		10
8	14		10	29	8		10	11	0		10
0	0		10	36	8		0	16	0		10
8	39		10	38	8		10	30	10		10
8	38		10	35	9		10	31	9		10
8	22		10	32	8		10	12	5		10
8	38		10	35	10		10	10	0		10
8	38		10	40	9		10	38	10		10
8	31		10	30	8		10	34	9		10
8	40		10	34	8		10	19	8		10
8	38		10	36	8		10	34	9		10
8	17		10	20	8		10	26	5		10
8	35		10	32	8		10	30	8		10
8	40		10	36	9		10	35	9		10
8	42		10	39	10		10	33	10		10
8	35		10	34	10		10	10	10		10
8	35		10	38	9		10	34	4		10
8	37		10	37	9		10	25	8		10
8	42		10	39	10		10	33	8		10
8	42		10	40	10		10	35	5		10
8	18		10	38	3		10	32	5		10
8	29		10	16	8		5	12	8		10
7	30		10	37	9		8	27	8		10
7	23		10	32	8		10	15	10		10

Attainment of CO's													
CO1		CO2		CO3		CO4		CO5		CO6			
M	%	M	%	M	%	M	%	M	%	M	%		
15	100	26	62	12	50	0	0	10	63	0	###	25	42
15	100	33	80	23	95	20	85	15	96	0	###	21	35
15	100	32	78	18	75	7	28	14	85	0	###	21	35
15	100	39	94	22	90	18	75	14	89	0	###	32	53
15	100	40	97	23	98	21	88	16	100	0	###	44	73
15	100	26	64	14	60	12	50	12	78	0	###	34	57
15	100	34	83	22	90	21	88	15	96	0	###	28	47
15	100	33	80	22	90	13	53	15	96	0	###	27	45
15	100	37	90	21	88	23	98	13	81	0	###	27	45
15	100	39	94	24	100	23	98	16	100	0	###	45	75
15	100	39	96	24	100	23	95	15	96	0	###	36	60
15	100	38	93	23	98	20	85	15	96	0	###	31	52
15	100	35	85	22	90	19	80	15	96	0	###	21	35
15	100	23	56	17	73	7	28	10	63	0	###	6	10
10	68	5	12	22	90	10	40	10	63	0	###	12	20
15	100	38	93	23	95	18	75	16	100	0	###	21	35
15	100	38	93	21	88	19	78	15	96	0	###	22	37
15	100	28	68	19	80	7	30	13	81	0	###	28	47
15	100	39	94	21	88	6	25	10	63	0	###	21	35
15	100	38	93	24	100	23	95	16	100	0	###	38	63
15	100	33	81	18	75	20	85	15	96	0	###	28	47
15	100	39	94	20	85	11	48	15	93	0	###	32	53
15	100	38	91	22	90	20	85	15	96	0	###	38	63
15	100	25	61	12	50	16	65	13	81	0	###	21	35
15	100	36	87	19	80	18	75	15	93	0	###	28	47
15	100	39	96	22	90	21	88	15	96	0	###	23	38
15	100	41	100	23	98	20	83	16	100	0	###	35	58
15	100	37	90	20	85	6	25	16	100	0	###	33	55
15	100	36	88	23	95	20	85	12	78	0	###	32	53
15	100	38	91	22	93	15	63	15	93	0	###	30	50
15	100	41	100	23	98	20	83	15	93	0	###	30	50
15	100	41	100	24	100	21	88	13	81	0	###	27	45
15	100	23	55	23	95	19	80	13	81	0	###	21	35
15	100	27	66	10	40	7	30	15	93	0	###	26	43
14	96	31	76	22	93	16	68	15	93	0	###	35	58
14	96	29	69	19	80	9	38	16	100	0	###	21	35

VTU	
All CO	
M	%
25	42
21	35
21	35
32	53
44	73
34	57
28	47
27	45
27	45
45	75
36	60
31	52
21	35
6	10
12	20
21	35
22	37
28	47
21	35
38	63
28	47
32	53
38	63
21	35
28	47
23	38
35	58
33	55
32	53
30	50
30	50
27	45
21	35
26	43
35	58
21	35

37	IGV18CS045	Pujith G	8	35		9	34	9		6	23	8		10	14	93	32	79	20	85	14	58	15	93	0	###	32	53
38	IGV18CS046	Ramya B	8	32		10	34	9		10	16	7		10	15	100	35	84	20	85	10	40	14	89	0	###	25	42
39	IGV18CS047	Ramya M	8	37		10	27	9		8	31	10		10	15	100	36	86	16	68	19	78	16	100	0	###	38	63
40	IGV18CS053	S Suhas Rahul	7	27		10	33	8		8	28	8		9	14	96	29	70	20	83	17	70	14	86	0	###	23	38
41	IGV18CS054	Sahana M	8	32		10	36	9		10	29	8		10	15	100	35	84	22	90	17	73	15	93	0	###	21	35
42	IGV18CS055	Samiksha S	8	29		10	28	8		10	13	0		8	15	100	32	78	17	70	8	33	8	50	0	###	12	20
43	IGV18CS056	Sandeep Kumar R	6	23		6	17	9		10	0	0		10	10	65	29	71	10	43	0	0	10	63	0	###	21	35
44	IGV18CS058	Sayeeda Hajira	8	40		10	38	9		10	35	10		10	15	100	39	96	23	95	21	88	16	100	0	###	30	50
45	IGV18CS061	Sharmila Veda Priya	7	39		8	34	9		10	20	0		10	12	82	39	94	20	85	12	50	10	63	0	###	21	35
46	IGV18CS063	Shravani S	6	30		10	37	9		10	35	8		10	14	92	33	81	22	93	21	88	15	93	0	###	21	35
47	IGV18CS064	Sindhu Lakshmi K	8	31		10	40	10		10	39	10		10	15	100	35	84	24	100	23	98	16	100	0	###	26	43
48	IGV18CS066	Sneha Priya B	7	40		10	33	8		10	16	6		10	14	96	39	94	20	83	10	40	14	85	0	###	14	23
49	IGV18CS067	Sowmiya S	8	38		10	37	9		10	20	3		10	15	100	38	93	22	93	12	50	12	74	0	###	38	63
50	IGV18CS069	Supriya V S	8	40		10	38	9		10	32	9		10	15	100	39	96	23	95	19	80	15	96	0	###	36	60
51	IGV18CS071	Swathi P	7	27		10	37	8		8	15	0		9	14	96	29	70	22	93	9	38	9	56	0	###	14	23
52	IGV18CS072	Swetha Kumari M	0	0		0	0	0		0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	###	0	0
53	IGV18CS073	Syed Haleema Sadiya	8	36		10	34	8		9	30	9		10	15	100	35	86	20	85	18	75	15	96	0	###	23	38
54	IGV18CS074	Varalakshmi H	8	40		10	36	9		10	33	9		10	15	100	39	96	22	90	20	83	15	96	0	###	34	57
55	IGV18CS075	Varsha Yadav J	8	34		10	26	9		10	24	9		10	15	100	36	87	16	65	14	60	15	96	0	###	23	38
56	IGV18CS076	Varunkumar M	6	24		10	33	8		8	21	6		10	14	92	27	66	20	83	13	53	14	85	0	###	26	43
57	IGV18CS077	Yamuna S	8	26		10	32	7		10	15	7		10	15	100	30	72	19	80	9	38	14	89	0	###	21	35
58	IGV18CS078	Yashwanth M	6	30		10	27	9		8	0	0		10	14	92	31	76	16	68	0	0	10	63	0	###	27	45
59	IGV18CS079	Yeshwanth S	6	27		10	34	8		8	24	4		10	14	92	29	70	20	85	14	60	12	78	0	###	27	45
60	IGV18CS080	Tharun R	6	17		5	16	9		8	17	0		10	9	58	24	57	10	40	10	43	10	63	0	###	15	25
61	IGV19CS400	Abishek	8	20		10	0	0		6	0	0		10	15	100	18	44	0	0	0	0	10	63	0	###	1	2
62	IGV19CS401	Nishanth	7	18		10	22	4		6	0	0		10	14	96	19	47	13	55	0	0	10	63	0	###	29	48
63	IGV19CS402	Rahul S	6	17		10	26	8		5	18	0		10	14	92	20	49	16	65	11	45	10	63	0	###	22	37
64	IGV19CS403	Suriya M	6	26		10	16	9		8	17	6		10	14	92	29	70	10	40	10	43	14	85	0	###	23	38
65	IGV19CS404	Swarna priya	8	29		10	28	9		10	33	8		10	15	100	33	80	17	70	20	83	15	93	0	###	24	40
66	IGV19CS405	Tameem Uddin	6	24		10	34	8		6	32	8		10	14	92	25	61	20	85	19	80	15	93	0	###	21	35
67	IGV19CS406	Tharun Kumar	6	8		10	22	8		4	0	0		10	14	92	14	33	13	55	0	0	10	63	0	###	35	58
68	IGV19CS407	Thirumalai	6	18		10	22	8		5	0	0		10	14	92	21	50	13	55	0	0	10	63	0	###	2	3
69	IGV19CS408	Yeshwanth Ready	7	20		10	30	7		10	10	0		10	14	96	26	64	18	75	6	25	10	63	0	###	10	17
70	IGV17CS044	Nikitha.G.N	8	35		10	26	9		10	13	8		7	15	100	36	88	16	65	8	33	12	74	0	###	27	45
71	IGV17CS024	Jaya surya	7	44		10	32	8		9	26	7		10	14	96	40	98	19	80	16	65	14	89	0	###	23	38
72	IGV17CS051	Rajendra Reddy	7	14		10	20	0		9	0	0		10	14	96	17	42	12	50	0	0	10	63	0	###	12	20
73	IGV17CS075	Vivek	7	19		10	32	9		10	22	8		8	14	96	27	65	19	80	13	55	13	80	0	###	15	25
74	IGV16CS055	Rahul prithvi P	7	20		10	18	10		5	0	0		10	14	96	23	56	11	45	0	0	10	63	0	###	34	57
			CO1	73	CO2	67	CO3	67	CO4	45	CO5	73	CO6	0	VTU	23												

TARGET is 50% marks
Attainment level 1: 40% students scoring more than 50% marks
Attainment level 2: 45% students scoring more than 50% marks
Attainment level 3: 50% students scoring more than 50% marks

PERCENTAGE OF STUDENTS SCORING > 50% of Marks (For Internal Assessment)						
CO'S	CO1	CO2	CO3	CO4	CO5	CO6
Number of Students Scored above 50% of Marks	73	67	67	45	73	0
Number of Students attempted the test	74	74	74	74	74	74
% OF STUDENTS	98.65	90.54	90.54	60.81	98.65	
Attainment Level	3	3	3	3	3	

PERCENTAGE OF STUDENTS SCORING > 50% of Marks (For University Examination)	
Number of Students Scored above 50% of Marks	23
Number of Students attempted the Examination	74
% OF STUDENTS	31.08108108
Attainment Level	0

Calculation for CO attainment by direct assessment (40% weightage for IA & 60% SEE marks)	Attainment
CO1	0.58
CO2	0.55
CO3	0.55
CO4	0.43
CO5	0.58
CO6	

CO attainment using Course survey	
CO1	0.8
CO2	0.6
CO3	0.8
CO4	0.8
CO5	0.8
CO6	

Overall CO attainment	
CO1	0.625
CO2	0.559
CO3	0.599
CO4	0.504
CO5	0.625
CO6	

PO MAPPING

CO'S	1	2	3	4	5	6	7	8	9	10	11	12
CO1	2	2	2									
CO2	2	3	3									
CO3	2	3	3									
CO4	2	2	3									
CO5	2	2	3									
CO6												
Total	10	12	14	0	0	0	0	0	0	0	0	0
PO AVERAGE	2.00	2.40	2.80									

PSO MAPPING

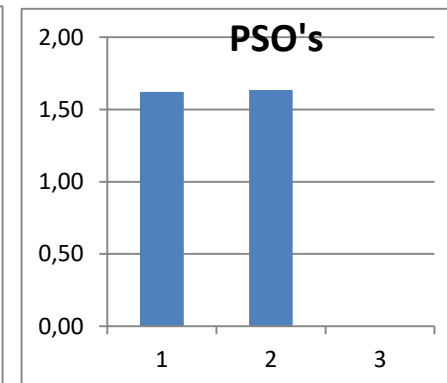
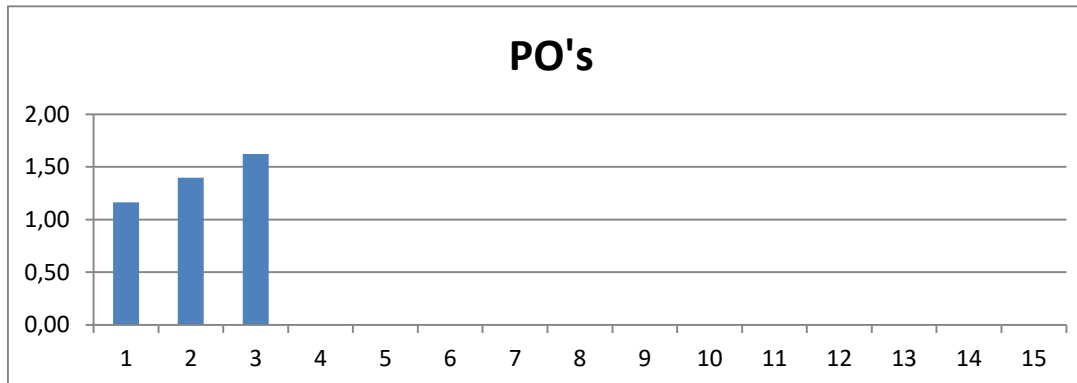
CO'S	1	2	3
CO1	2	3	
CO2	3	2	
CO3	3	3	
CO4	3	3	
CO5	3	3	
CO6			
Total	14	14	0
PSO AVERAGE	2.80	2.80	

ATTAINMENT

CO'S	1	2	3	4	5	6	7	8	9	10	11	12
CO1	1.25	1.25	1.25									
CO2	1.12	1.68	1.68									
CO3	1.20	1.80	1.80									
CO4	1.01	1.01	1.51									
CO5	1.25	1.25	1.87									
CO6												
PO AVERAGE	1.16	1.40	1.62									

ATTAINMENT

CO'S	1	2	3
CO1	1.25	1.87	
CO2	1.68	1.12	
CO3	1.80	1.80	
CO4	1.51	1.51	
CO5	1.87	1.87	
CO6			
PSO AVERAGE	1.62	1.64	



Prepared by
Dr. P D Sudersanan, Dr.TTIT, K.G.F.



Dr.T.Thimmaiah Institute of Technology

Oorgaam, K.G.F-563120

SEM	4
Department	Computer Science
Course	Design And Analysis of Algorithms
Academic Year	2020-21

Course Instructor	Prof APOORVA D
Designation	Assistant Professor
Course code	18CS42
Total Students	53

CO'S	Description
CO1	DESCRIBE COMPUTATIONAL SOLUTION TO WELL KNOWN PROBLEMS
CO2	ESTIMATE THE COMPUTATIONAL COMPLEXITY OF DIFFERENT ALGORITHMS
CO3	DEVISE AN ALGORITHM USING APPROPRIATE DESIGN STRATEGIES FOR PROBLEM SOLVING
CO4	
CO5	
CO6	

Grading Scale	Level
Score < 40	0
Score 40 to < 45	1
Score 45 to < 50	2
Score > 50	3

Target Percentage	50
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CO's	T1	T2	T3	A	T	Q	Total Marks	External Marks
CO1	30	10		10			42	50
CO2	20	20	20			10	58	
CO3		20	30		10		50	
CO4							0	
CO5							0	
CO6							0	

Sl No	USN	Students Name	CO Marks in Tests												Attainment of CO's												VTU	
			Test 1			A	Test 2			Q	Test 3			A	CO1		CO2		CO3		CO4		CO5		CO6		All CO	
			CO1	CO2	CO1	CO1	CO3	CO2	CO1	CO2	CO2	CO3	CO3	CO3	M	%	M	%	M	%	M	%	M	%	M	%	M	%
1	IGV19CS001	ABISHEK R	18	18	10	10	20	19	10	9	20	16	7	10	40	96	55	94	44	89	0	###	0	###	0	###	31	62
2	IGV19CS002	ADIBA BANU	14	17	10	10	19	19	10	9	15	20	7	10	37	89	50	86	47	94	0	###	0	###	0	###	34	68
3	IGV19CS003	AFIYA KULSUM	15	4	9	9	17	18	9	9	20	11	7	10	35	84	43	73	38	76	0	###	0	###	0	###	27	54
4	IGV19CS004	AISHWARYA INGALA	18	17	7	8	20	12	9	9	13		3	8	35	84	43	73	26	53	0	###	0	###	0	###	19	38
5	IGV19CS005	ANUHYA R GOWDA	14	19	10	10	19	18	3	8	17	3	3	10	32	75	51	88	30	60	0	###	0	###	0	###	21	42
6	IGV19CS006	ANUSHA K	20	20	10	10	20	20	10	9	20	18	7	10	42	100	57	98	46	92	0	###	0	###	0	###	40	80
7	IGV19CS008	ANUSWATHI M	19	13	9	9	19	16	10	9	10	10	7	10	39	94	40	69	39	78	0	###	0	###	0	###	30	60
8	IGV19CS009	ARATHI N	15	10	9	9	12	17	10	9	12	7	3	10	36	86	40	69	28	55	0	###	0	###	0	###	24	48
9	IGV19CS010	BHAVYA G	6	3	9	10	19	9	10	9	2	3	7	10	30	71	20	35	33	66	0	###	0	###	0	###	13	26
10	IGV19CS011	CHAITHRA P S	14	8	10	10	17	9	8	9	3	12	3	10	36	85	25	43	36	71	0	###	0	###	0	###	19	38
11	IGV19CS012	CHETHAN L	19	16	10	9	20	14	10	9	10	10	7	10	40	96	41	71	40	79	0	###	0	###	0	###	24	48
12	IGV19CS013	CHETHAN S	15	0	9	10	16	12	3	9	5	6	6	10	32	75	23	39	32	65	0	###	0	###	0	###	19	38
13	IGV19CS014	CHETHANA M	9	5	4	8	10	18	9	8					26	61	26	46	8	16	0	###	0	###	0	###	21	42
14	IGV19CS015	CHIRANJEEVI V	20	8	10	9	20	18	10	9	9	11	7	10	41	98	37	64	40	81	0	###	0	###	0	###	27	54
15	IGV19CS016	DHEERAJ SINGH H	19	16	10	0	18	10	10	9					31	74	30	51	14	29	0	###	0	###	0	###	16	32
16	IGV19CS017	DINESH R	19	8	10	9	19	18	10	9	5	8	6	10	40	96	34	58	36	73	0	###	0	###	0	###	24	48
17	IGV19CS019	G PAVITHRA	15	17	9	9	20	18	10	9	13	16	7	10	36	86	47	82	44	89	0	###	0	###	0	###	23	46
18	IGV19CS020	G SAI LAKSHMI CHILLI	16	16	9	9	20	15	10	9	8	6	4	10	37	88	40	69	34	68	0	###	0	###	0	###	21	42
19	IGV19CS021	GOWTHAM B	15	13	9	8	19	17	8	9	5	9	7		34	80	37	64	28	56	0	###	0	###	0	###	18	36
20	IGV19CS023	HARI VISHNU A	19	16	10	9	18	10	10	9	17	5	7	10	40	96	43	75	34	68	0	###	0	###	0	###	20	40
21	IGV19CS024	HARINA SREE M	19	16	10	9	19	17	10	9	18	10	7	10	40	96	50	86	39	78	0	###	0	###	0	###	27	54
22	IGV19CS025	HARSHITHA N	16	20	10	10	19	18	10	9	18	19	5	10	39	92	54	93	44	89	0	###	0	###	0	###	29	58
23	IGV19CS026	HEMAVATHI V	15	16	9	10	18	18	10	7	20	16	3	10	37	89	50	87	40	79	0	###	0	###	0	###	30	60
24	IGV19CS027	HITHAISHINI CS	19	16	9	10	18	18	10	9	12	8	3	10	40	96	46	79	33	66	0	###	0	###	0	###	24	48
25	IGV19CS028	JAHNAVI SREEJA R	19	6	10	10	17	10	10	9	4	10	7	10	41	98	25	43	37	74	0	###	0	###	0	###	25	50
26	IGV19CS029	JANAVI M	16	20	10	10	19	18	10	9	14	17	3	10	39	92	51	87	41	82	0	###	0	###	0	###	31	62
27	IGV19CS030	JANHAVI R	16	6	10	10	16	17	10	9	13	10	6	10	39	92	38	65	36	71	0	###	0	###	0	###	20	40
28	IGV19CS031	JUNITHA M	20	7	9	9	17	17	10	9	2	14	7	10	40	96	30	51	40	81	0	###	0	###	0	###	24	48
29	IGV19CS032	KAVITHA V	16	5	10	10	16	4	3	9	12	4	6	10	33	79	26	44	31	62	0	###	0	###	0	###	24	48
30	IGV19CS033	KEERTHIKA R	20	14	9	10	20	20	10	9	12	20	7	10	41	98	46	79	48	95	0	###	0	###	0	###	33	66
31	IGV19CS034	KEERTHIVARDHANAN	14	13	9	10	18	19	10	8	11	10	6	10	36	87	42	73	37	74	0	###	0	###	0	###	20	40
32	IGV19CS035	KOUSALYA P	16	8	8	10	17	9	9	8	7	10	7	10	36	87	27	47	37	74	0	###	0	###	0	###	21	42
33	IGV19CS036	KRISHNAPRABHA N	14	11	9	10	18	12	3	9	5	9	7	10	31	73	31	54	37	74	0	###	0	###	0	###	26	52
34	IGV19CS037	L CHETHAN	19	17	9	10	20	19	10	9	6	8	7	10	40	96	43	73	38	76	0	###	0	###	0	###	19	38
35	IGV19CS038	MADHUMITA M	15	5	10	10	19	18	10	9	5	9	3	10	38	90	31	54	35	70	0	###	0	###	0	###	19	38

36	1GV19CS039	MANJUNATH	20	18	10	9	17	20	10	9	17	13	3	10	41	98	53	91	36	73	0	###	0	###	0	###	28	56
37	1GV19CS040	MANJUNATH N	19	5	10	9	18	11	9	8	1		1	10	39	94	22	37	25	50	0	###	0	###	0	###	12	24
38	1GV19CS041	MEGANA K	5	8	2	10	7	7	6	9	3	4	3	10	20	49	23	40	21	42	0	###	0	###	0	###	17	34
39	1GV19CS043	MOHANA DHARSHIN	20	19	9	10	11	18	10	9	11	3	3	10	41	98	47	82	24	47	0	###	0	###	0	###	20	40
40	1GV19CS044	MONISHA THARANI	20	19	10	10	11	18	10	9	9	3	3	10	42	100	46	79	24	47	0	###	0	###	0	###	20	40
41	1GV19CS045	NAGA SHILPA	16	19	10	10	20	20	10	9	10	19	4	10	39	92	48	83	44	89	0	###	0	###	0	###	32	64
42	1GV19CS046	NAGARAJ VASAND				9								10	9	21	0	0	10	20	0	###	0	###	0	###	27	54
43	1GV19CS097	BENNETT STANLEY	19	16	10	9	20	13	3	9	14		1	10	35	82	43	75	27	54	0	###	0	###	0	###	19	38
44	1GV19CS096	VANDANA	16	8	10	8	18	13	10	8	7	16	10	10	37	88	30	52	45	90	0	###	0	###	0	###	27	54
45	1GV18CS014	DHANUSH D	17	16	10	0	18	7	10		2	2		10	30	70	20	34	26	52	0	###	0	###	0	###	22	44
46	1GV18CS049	RENNY KEITH	19	8	9	9	17	9	10	7	5	5	3	9	39	94	25	42	29	58	0	###	0	###	0	###	16	32
47	1GV18CS070	SURYA	19	3		10	17	10	10	7	11	10	8	10	33	79	26	45	38	76	0	###	0	###	0	###	18	36
48	1GV18CS021	HARI KEERTHAN	14	16	5	8	18	9	9	8					30	72	28	48	14	29	0	###	0	###	0	###	9	18
49	1GV18CS059	SHAKIR JAVID AHM	13	5	5	9	19	9	3	9				10	26	61	20	35	25	50	0	###	0	###	0	###	12	24
50	1GV20CS400	ASHLEY SHERIN G	9	8	9	10	16	5	3	8	15	0	0	10	27	64	30	52	23	46	0	###	0	###	0	###	21	42
51	1GV20CS401	AVINASH MARIAN	19	11	8	9	18	5	3	7	15	0	0	10	33	79	32	55	24	49	0	###	0	###	0	###	19	38
52	1GV20CS406	VIGNESH KUMAR S	6		7	0	11	7	9						18	42	6	10	9	18	0	###	0	###	0	###	16	32
53	1GV20CS405	SWETHA S	14	15	9	9	19	5	10	9	18	8	3	10	35	84	39	68	34	68	0	###	0	###	0	###	28	56
															CO1	50	CO2	37	CO3	43	CO4	0	CO5	0	CO6	0	VTU	18

Target is 50% marks
Attainment level 1: 40% students scoring more than 50% marks
Attainment level 2: 45% students scoring more than 50% marks
Attainment level 3: 50% students scoring more than 50% marks

PERCENTAGE OF STUDENTS SCORING > 50% of Marks (For Internal Assessment)						
CO'S	CO1	CO2	CO3	CO4	CO5	CO6
Number of Students Scored above 50% marks	50	37	43	0	0	0
Number of Students attempted the test	53	53	53	53	53	53
% OF STUDENTS	94.34	69.81	81.13			
Attainment Level	3	3	3			

PERCENTAGE OF STUDENTS SCORING > 50% of marks (For University Examination)	
Number of Students Scored above 50 % of Marks	18
Number of Students attempted the Examination	53
% OF STUDENTS	33.96
Attainment Level	0

Calculation for CO attainment by direct assessment (40% weightage for IA & 60% SEE marks)	Attainment
CO1	0.58
CO2	0.48
CO3	0.53
CO4	
CO5	
CO6	

CO attainment using Course survey	
CO1	0.9
CO2	0.87
CO3	0.87
CO4	
CO5	
CO6	

Overall CO attainment	
CO1	0.645
CO2	0.560
CO3	0.597
CO4	
CO5	
CO6	

PO MAPPING

CO'S	1	2	3	4	5	6	7	8	9	10	11	12
CO1	2	1										1
CO2	2	1	2									
CO3	2	2										
CO4												
CO5												
CO6												
Total	6	4	2	0	0	0	0	0	0	0	0	1
PO AVERAGE	2.00	1.33	2.00									1.00

PSO MAPPING

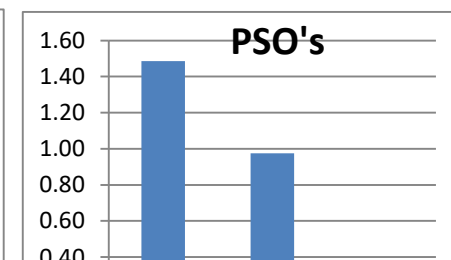
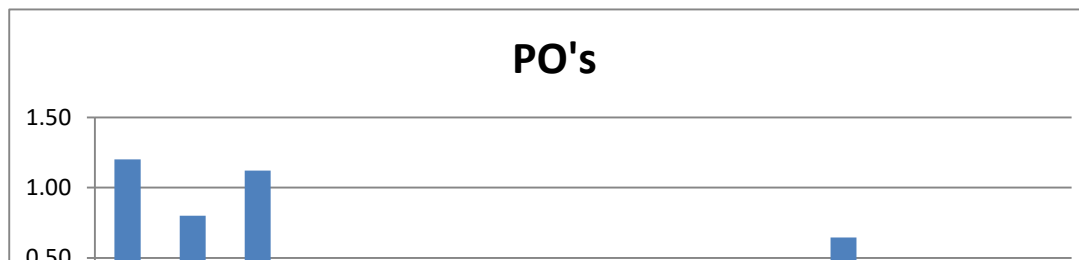
CO'S	1	2	3
CO1	2	1	
CO2	3	3	
CO3		1	
CO4			
CO5			
CO6			
Total	5	5	0
PSO AVERAGE	2.50	1.67	

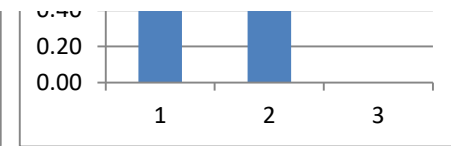
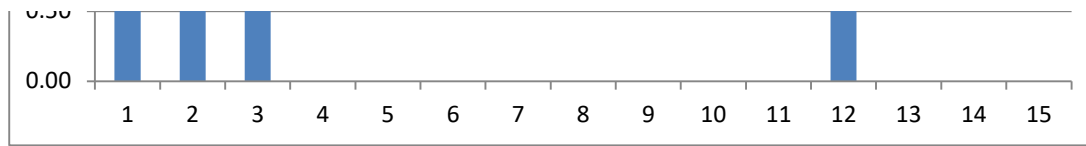
ATTAINMENT

CO'S	1	2	3	4	5	6	7	8	9	10	11	12
CO1	1.29	0.64										0.64
CO2	1.12	0.56	1.12									
CO3	1.19	1.19										
CO4												
CO5												
CO6												
PO AVERAGE	1.20	0.80	1.12									0.64

ATTAINMENT

CO'S	1	2	3
CO1	1.29	0.64	
CO2	1.68	1.68	
CO3		0.60	
CO4			
CO5			
CO6			
PSO AVERAGE	1.49	0.97	





Prepared by
Dr. P D Sudersanan, Dr.TTIT, K.G.F.



Dr.T.Thimmaiah Institute of Technology

Oorgaum, K.G.F-563120

SEM	3
Subject	Discrete Mathematical Structures
Batch	2019

Name of the faculty	THARA DEVI M
Subject code:	18CS36
Total Students	53

CO'S	Description
CO1	Apply the knowledge of propositional, predicate logic in knowledge representation and truth table verification
CO2	Solve problems using recurrence relations and generating functions
CO3	Solve problems on Relations and Functions
CO4	Compare graphs , trees and their applications
CO5	
CO6	

Grading Scale	Level
Score < 40	0
Score 40 to 45	1
Score 45 to 50	2
Score > 50	3

Target Percentage	50
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CO's	T1	T2	T3	A	T	Q	Total Marks	External Marks
CO1	40			10			34	60
CO2			50	10			40	
CO3	10	40					30	
CO4		10		10			16	
CO5							0	
CO6							0	

Reduction factors to be used	
Internals	T/A/Q
0.6	1

Sl No	USN	Students Name	CO Marks in Tests												Attainment of CO's												VTU	
			Test 1			A	Test 2			A	Test 3			A	CO1		CO2		CO3		CO4		CO5		CO6		All CO	
			CO1	CO1	CO3	CO1	CO3	CO3	CO4	CO4	CO2	CO2	CO2	CO2	M	%	M	%	M	%	M	%	M	%	M	%	M	%
1	1GV19CS001	ABISHEK R	20	18	8	10	19	14	10	9	8	13	7	10	33	96	27	67	25	82	15	94	0	##	0	##	21	35
2	1GV19CS002	ADIBA BANU	20	20	10	10	20	20	10	10	6	5	10	10	34	100	23	57	30	##	16	##	0	##	0	##	37	62
3	1GV19CS003	AFIYA KULSUM	19	19	8	10	20	13	10	10	20	10	5	10	33	96	31	78	25	82	16	##	0	##	0	##	30	50
4	1GV19CS004	AKSHWARYA JINGALAGIMATH	18	11	4	10	19	14	10	9	6	10	4	10	27	81	22	55	22	74	15	94	0	##	0	##	11	18
5	1GV19CS005	ANUHYA R GOWDA	17	14	5	10	20	13	10	10	14	12	5	10	29	84	29	72	23	76	16	##	0	##	0	##	21	35
6	1GV19CS006	ANUSHA K	20	20	10	10	20	20	10	10	20	13	10	10	34	100	36	90	30	##	16	##	0	##	0	##	47	78
7	1GV19CS008	ANUSWATHI M	20	20	5	10	20	20	10	9	7	19	9	10	34	100	31	78	27	90	15	94	0	##	0	##	42	70
8	1GV19CS009	ARATHI N	19	17	9	10	20	15	10	9	11	2	2	10	32	93	19	48	26	88	15	94	0	##	0	##	23	38
9	1GV19CS010	BHAVYA G	16	7	0	10	19	7	7	9	2	5	3	10	24	70	16	40	16	52	13	83	0	##	0	##	6	10
10	1GV19CS011	CHAITHRA P S	13	16	4	10	20	10	8	9	10	3	0	10	27	81	18	45	20	68	14	86	0	##	0	##	9	15
11	1GV19CS012	CHEZHAN L	18	17	6	10	20	13	10	9	5	13	7	10	31	91	25	63	23	78	15	94	0	##	0	##	30	50
12	1GV19CS013	CHEZHAN S	18	16	4	10	18	9	9	9	3	3	7	10	30	89	18	45	19	62	14	90	0	##	0	##	17	28
13	1GV19CS014	CHEZHANA M	14	11	3	10	12	10	1	8	4	0	4	10	25	74	15	37	15	50	9	54	0	##	0	##	16	27
14	1GV19CS015	CHIRANJEEVI V	18	17	6	10	19	15	9	10	16	12	5	10	31	91	30	75	24	80	15	96	0	##	0	##	27	45
15	1GV19CS016	DHEERAJ SINGH H	14	11	6	10	20	14	9	9	0	13	0	10	25	74	18	45	24	80	14	90	0	##	0	##	3	5
16	1GV19CS017	DINESH R	17	17	4	10	20	16	10	10	2	13	6	10	30	89	23	57	24	80	16	##	0	##	0	##	21	35
17	1GV19CS019	G PAVITHRA	17	13	8	10	20	15	10	10	11	13	4	10	28	82	27	67	26	86	16	##	0	##	0	##	25	42
18	1GV19CS020	G SAI LAKSHMI CHIDRUPA	17	14	5	10	20	13	10	10	0	0	0	10	29	84	10	25	23	76	16	##	0	##	0	##	22	37
19	1GV19CS021	GOWTHAM B	13	10	7	10	19	12	10	9	3	13	2	10	24	70	21	52	23	76	15	94	0	##	0	##	8	13
20	1GV19CS023	HARI VISHNU A	14	12	4	10	16	11	8	9	7	0	6	10	26	75	18	45	19	62	14	86	0	##	0	##	21	35
21	1GV19CS024	HARINA SREE M	18	17	10	10	20	20	10	9	14	20	10	10	31	91	36	91	30	##	15	94	0	##	0	##	38	63
22	1GV19CS025	HARSHITHA N	20	20	10	10	20	15	10	10	20	12	8	10	34	100	34	85	27	90	16	##	0	##	0	##	25	42
23	1GV19CS026	HEMAVATHI V	19	19	7	10	20	15	10	9	19	15	9	10	33	96	36	90	25	84	15	94	0	##	0	##	33	55
24	1GV19CS027	HITHAISHINI CS	18	18	9	10	20	15	10	10	16	6	6	10	32	93	27	67	26	88	16	##	0	##	0	##	30	50
25	1GV19CS028	JAHNAVI SREEJA R	19	19	8	10	13	15	10	9	8	7	5	10	33	96	22	55	22	72	15	94	0	##	0	##	15	25
26	1GV19CS029	JANAVI M	19	19	10	10	20	20	10	10	19	17	10	10	33	96	38	94	30	##	16	##	0	##	0	##	29	48
27	1GV19CS030	JANHAVI R	18	20	5	10	20	18	10	10	3	8	7	10	33	96	21	52	26	86	16	##	0	##	0	##	23	38
28	1GV19CS031	JUNITHA M	18	18	10	10	20	15	10	9	7	7	4	10	32	93	21	52	27	90	15	94	0	##	0	##	21	35
29	1GV19CS032	KAVITHA V	13	15	5	10	17	13	10	10	7	8	0	10	27	79	19	48	21	70	16	##	0	##	0	##	24	40
30	1GV19CS033	KEERTHIKA R	20	19	9	10	20	20	10	9	19	19	10	10	33	98	39	97	29	98	15	94	0	##	0	##	30	50
31	1GV19CS034	KEERTHIVARDHANA V	17	18	6	10	19	14	10	10	10	5	8	10	31	91	24	60	23	78	16	##	0	##	0	##	13	22
32	1GV19CS035	KOUSALYA P	15	14	4	10	20	18	10	9	5	8	5	10	27	81	21	52	25	84	15	94	0	##	0	##	21	35
33	1GV19CS036	KRISHNAPRABHA N K	19	17	4	10	20	18	10	9	14	7	4	10	32	93	25	63	25	84	15	94	0	##	0	##	31	52
34	1GV19CS037	L CHEZHAN	12	29	4	10	17	10	8	10	4	13	4	10	35	102	23	57	19	62	15	93	0	##	0	##	17	28
35	1GV19CS038	MADHUMITA M	19		9	10	20	18	10	10	5	7	8	10	21	63	22	55	28	94	16	##	0	##	0	##	14	23
36	1GV19CS039	MANJUNATH	17	16	8	10	19	15	9	10	18	15	7	10	30	88	34	85	25	84	15	96	0	##	0	##	21	35
37	1GV19CS040	MANJUNATH N	10	14	7	10	18	13	7	10	0	0	1	10	24	72	11	27	23	76	14	89	0	##	0	##	3	5
38	1GV19CS041	MEGANA K	16	11	4	10	13	10	10	9	0	2	4	10	26	77	14	34	16	54	15	94	0	##	0	##	17	28
39	1GV19CS043	MOHANA DHARSHINI A	19	15	9	10	20	13	10	10	8	5	2	10	30	89	19	48	25	84	16	##	0	##	0	##	14	23
40	1GV19CS044	MONISHA THARANI A	19	16	10	10	20	13	10	10	7	3	0	10	31	91	16	40	26	86	16	##	0	##	0	##	17	28
41	1GV19CS045	NAGA SHILPA	18	20	10	10	20	15	10	10	17	16	10	10	33	96	36	90	27	90	16	##	0	##	0	##	32	53
42	1GV19CS046	NAGARAJ VASAND	13	11	4	10	11	11	8	9	5	7	1	10	24	72	18	45	16	52	14	86	0	##	0	##	21	35
43	1GV19CS097	BENNETT STANLEY	15	14	4	10	19	17	9	9	7	0	1	10	27	81	15	37	24	80	14	90	0	##	0	##	21	35
44	1GV19CS096	VANDANA	18	17	5	10	20	18	10	10	6	8	9	10	31	91	24	60	26	86	16	##	0	##	0	##	21	35
45	1GV18CS014	DHANUSH D	12	12	4	10	16	11	8	9	0	0	1	10	24	72	11	27	19	62	14	86	0	##	0	##	21	35
46	1GV18CS049	RENNY KEITH	10	8	5	10	16	0	9	0	0	0	1	10	21	61	11	27	13	42	5	34	0	##	0	##	22	37
47	1GV18CS070	SURYA	11	11	6	10	16	0	9	9	0	0	0	10	23	68	10	25	13	44	14	90	0	##	0	##	21	35
48	1GV18CS021	HARI KEERTHAN	11	11	3	10	16	15	9	9	14	0	4	10	23	68	21	52	20	68	14	90	0	##	0	##	1	2
49	1GV18CS059	SHAKIR JAVID AHMED	10	9	4	10	15	5	0	9	0	19	9	10	21	63	27	67	14	48	9	56	0	##	0	##	8	13
50	1GV20CS400	ASHLEY SHERIN G	17	16	7	10	10	10	5	10	11		9	10	30	88	22	55	16	54	13	81	0	##	0	##	17	2

TARGET is 50% marks
Attainment level 1: 40% students scoring more than 50% marks
Attainment level 2: 45% students scoring more than 50% marks
Attainment level 3: 50% students scoring more than 50% marks

PERCENTAGE OF STUDENTS SCORING > 50% of Marks (For Internal Assessment)						
CO'S	CO1	CO2	CO3	CO4	CO5	CO6
Number of Students Scored above 50% of Marks	53	34	50	52	0	0
Number of Students attempted the test	53	53	53	53	53	53
% OF STUDENTS	100.00	64.15	94.34	98.11		
Attainment Level	3	3	3	3		

PERCENTAGE OF STUDENTS SCORING > 50% of Marks (For University Examination)	
Number of Students Scored above 50% of Marks	13
Number of Students attempted the Examination	53
% OF STUDENTS	24.52830189
Attainment Level	0

Calculation for CO attainment by direct assessment (40% weightage for IA & 60% SEE marks)	Attainment
CO1	0.55
CO2	0.40
CO3	0.52
CO4	0.54
CO5	
CO6	

CO attainment using Course survey	
CO1	0.936
CO2	0.893
CO3	0.893
CO4	0.914
CO5	
CO6	

Overall CO attainment	
CO1	0.625
CO2	0.502
CO3	0.598
CO4	0.614
CO5	
CO6	

Weghtage for Indirect assessment	
Direct	Indirect
0.8	0.2

PO MAPPING

CO'S	1	2	3	4	5	6	7	8	9	10	11	12
CO1	3	2										
CO2	3	2	2									
CO3	3	2										
CO4	2	2	2									
CO5												
CO6												
Total	11	8	4	0	0	0	0	0	0	0	0	0
PO AVERAGE	2.75	2.00	2.00									

PSO MAPPING

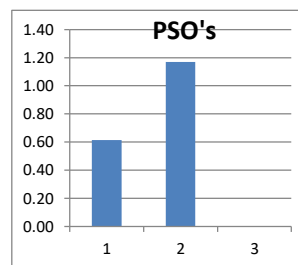
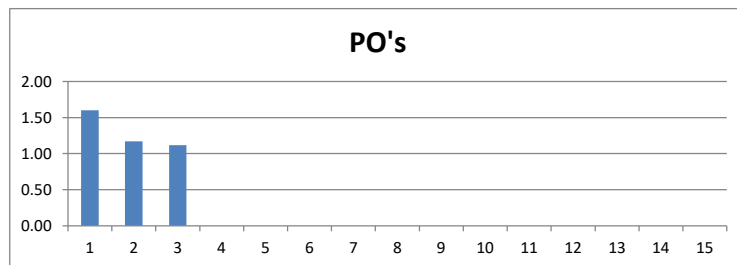
CO'S	1	2	3
CO1		2	
CO2		2	
CO3		2	
CO4	1	2	
CO5			
CO6			
Total	1	8	0
PSO AVERAGE	1.00	2.00	

ATTAINMENT

CO'S	1	2	3	4	5	6	7	8	9	10	11	12
CO1	1.87	1.25										
CO2	1.50	1.00	1.00									
CO3	1.79	1.20										
CO4	1.23	1.23	1.23									
CO5												
CO6												
PO AVERAGE	1.60	1.17	1.12									

ATTAINMENT

CO'S	1	2	3
CO1		1.25	
CO2		1.00	
CO3		1.20	
CO4	0.61	1.23	
CO5			
CO6			
PSO AVERAGE	0.61	1.17	



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