

**SHRIDEVI INSTITUTE OF ENGINEERING
AND TECHNOLOGY, TUMKUR**

DEPARTMENT OF ECE

CO-PO ATTAINMENT

ACADEMIC YEAR

2021-22

ODD SEM



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

(COMMON TO ALL BRANCHES)

ACADEMIC YEAR: 2021-2022



SUBJECT: TRANSFORM CALCULUS, FOURIER SERIES AND NUMERICAL TECHNIQUES
SUBJECT CODE: 18MAT31

COURSE OUTCOMES:

- CO1: Use Laplace transform and inverse Laplace transform in solving differential/ integral equation arising in network analysis, control systems and other fields of engineering.
- CO2: Demonstrate Fourier series to study the behaviour of periodic functions and their applications in system communications, digital signal processing and field theory.
- CO3: Make use of Fourier transform and Z-transform to illustrate discrete/continuous function arising in wave and heat propagation, signals and systems.
- CO4: Solve first order ordinary differential equations arising in engineering problems using single step and multistep numerical methods.
- CO5 : Solve second order ordinary differential equations by numerical methods and to determine the externals of functionals using calculus of variations and solve problems arising in dynamics of rigid bodies and vibrational analysis

	APPLY KNOWLEDGE	ANALYSIS	DESIGN	INVESTIGATION	MODERN TOOLS	SOCIETY	ENVIRONMENT	ETHICS	TEAM WORK	COMMUNICATION	PROJ MGMT FINANCE	LIFE LONG LEARN
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO1	2	3	0	0	0	0	0	0	0	0	0	1
CO2	2	3	0	0	0	0	0	0	0	0	0	1
CO3	2	3	0	0	0	0	0	0	0	0	0	1
CO4	2	3	0	0	0	0	0	0	0	0	0	1
CO5	2	3	0	0	0	0	0	0	0	0	0	1
AVG	2	3	0	0	0	0	0	0	0	0	0	1

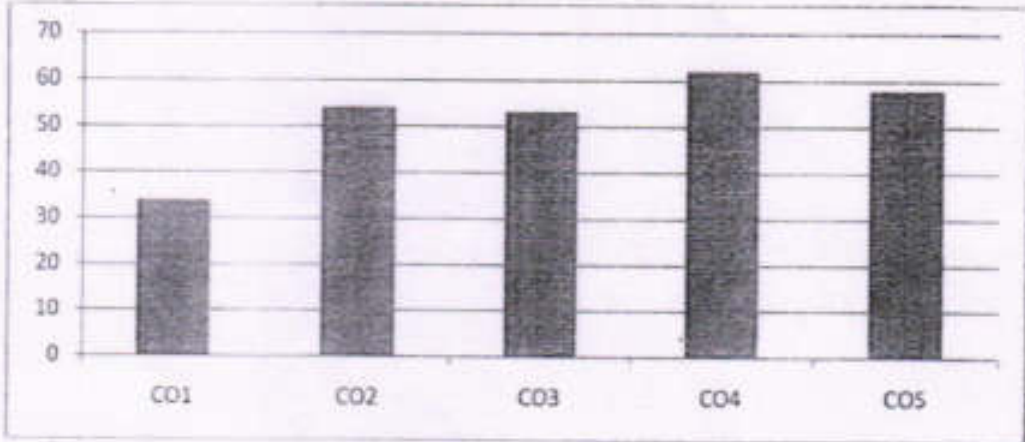
MAPPING CORRELATION	LOW	MODERATELY	HIGHLY	NO
	1	2	3	0



DEPARTMENT OF MATHEMATICS

COLLEGE		SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY						
FACULTY NAME		Dr. KISHOR KUMAR M K/Dr. CHETANA C/Prof. RASHMI S B						
BRANCH		ECE/EEE/CSE/CVE/ISE/ME			ACADEMIC YEAR		2021-22	
COURSE	B.E	SEMESTER			III	SECTION		-
SUBJECT	TRANSFORM CALCULUS, FOURIER SERIES AND NUMERICAL TECHNIQUES					SUBJECT CODE		18MAT31
CO & PO MAPPING								

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
CO1	34	0.68	1.02	0	0	0	0	0	0	0	0	0	0.3	
CO2	54	1.09	1.63	0	0	0	0	0	0	0	0	0	0.5	
CO3	53	1.07	1.60	0	0	0	0	0	0	0	0	0	0.5	
CO4	62	1.24	1.86	0	0	0	0	0	0	0	0	0	0.6	
CO5	58	1.16	1.74	0	0	0	0	0	0	0	0	0	0.5	
AVG	52	1	2	0	0	0	0	0	0	0	0	0		
													Final attainment level	1



Kishor Kumar M K
 Staff in-charge

Chetana C
 HOD

Rashmi S B
 PRINCIPAL
 SIET, TUMAKURU
 Principal

Rashmi S B
 PRINCIPAL
 SIET, TUMAKURU.



Department of Electronics & Communication Engg
Course Outcomes and CO-PO Articulation Matrix

2018 SCHEME
ACADEMIC YEAR -2021-22

Semester-III

Subject: NETWORK THEORY PROF. PRADEEPKUMAR S S	Subject Code: 18EC32
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Course Outcomes

CO1	Classify the signals as continuous/discrete, periodic/apperiodic, even/odd, energy/power and deterministic/random signals.
CO2	Determine the linearity, causality, time-invariance and stability properties of continuous and discrete time systems
CO3	Compute the response of a Continuous and Discrete LTI system using convolution integral and convolution sum.
CO4	Determine the spectral characteristics of continuous and discrete time signal using Fourier analysis.
CO5	Compute Z-transforms, inverse Z-transforms and transfer functions of complex LTI systems

CO-PO Mapping

COs	Pos											
	1	2	3	4	5	6	7	8	9	10	11	12
CO1	2	2	1	1	2					1		1
CO2	2	2	2	2	1					1		1
CO3	2	2	2	2	2					2		1
CO4	2	2	2	2	1					1		2
CO5	2	2	2	2	2					1		1
Average	2	2	1.8	1.8	1.6					1		1.2

ATTAINMENT TABLE

COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	51.24%	1.02	1.02	0.51	0.51	1.02					0.51		0.51
CO2	45.70%	0.91	0.91	0.91	0.91	0.45					0.45		0.45
CO3	34.52%	0.69	0.69	0.69	0.69	0.69					0.69		0.34
CO4	47.28%	0.94	0.94	0.94	0.94	0.47					0.47		0.94
CO5	59.69%	1.19	1.19	1.19	1.19	1.19					0.59		0.59
AVERAGE		0.95	0.95	0.88	0.88	0.95					0.54		0.56
TOTAL ATTAINMENT													0.916

Pradeep
COURSE INSTRUCTOR

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Pradeep
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**Department of Electronics & Communication Engg**
Course Outcomes and CO-PO Articulation Matrix**2021-22 Scheme**
Semester-III

Subject: ELECTRONICS DEVICES PROR.PRABITHA D K										Subject Code: 18EC33			
Course Outcomes													
CO1	Classify the signals as continuous/discrete, periodic/apperiodic, even/odd, energy/power and deterministic/random signals.												
CO2	Determine the linearity, causality, time-invariance and stability properties of continuous and discrete time systems												
CO3	Compute the response of a Continuous and Discrete system using convolution integral and convolution sum.												
CO4	Determine the spectral characteristics of continuous and discrete time signal using Fourier analysis.												
CO5	Compute transforms, inverse transforms and transfer functions of complex systems												
CO-PO Mapping													
COs	Pos												
	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	2	3	1	1	2					2		1	
CO2	2	2	2	2	1					1		1	
CO3	2	2	2	2	2					2		1	
CO4	2	2	2	2	1					1		2	
CO5	2	2	2	2	2					1		1	
Average	2	2.2	1.8	1.8	1.6					1.4		1.2	

ATTAINMENT TABLE

COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	59.59%	1.19	1.78	0.59	0.59	1.19					1.19		0.59
CO2	60.64%	1.21	1.21	1.21	1.21	0.60					0.60		0.60
CO3	61.14%	1.22	1.22	1.22	1.22	1.22					1.22		0.61
CO4	73.90%	1.4	1.4	1.4	1.4	0.74					0.74		1.4
CO5	65.79%	1.31	1.31	1.31	1.31	1.31					0.65		0.65
AVERAGE		1.26	1.38	1.14	1.14	1.01					0.88		0.77
TOTAL ATTAINMENT													1.07

Prabitha D K
COURSE INSTRUCTOR

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Prabitha D K
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Roll No.	SEM	SUB CODE	Name	2021-2022 OOD												SEM II SEM												PROF. PARATHA S.A.	SUB	ELECTRONIC DEVICES												TOTAL AVERAGE
				T1						T2						AMBIENT OOD						SEM MARKS																				
				T1-01	T1-02	T1-03	OD1-15	OD1-16	OD1-18	OD2-15	OD2-16	OD2-18	OD3-15	OD3-16	OD3-18	OD4-15	OD4-16	OD4-18	SE	CO1-15	CO2-15	CO3-15	CO4-15	CO5-15	CO1-16	CO2-16	CO3-16			CO4-16	CO5-16											
1	ISV20EC001	ABHISHIK B	25	21	20	14	11	9	15	10	10	2	2	2	2	2	20	7.2	7.2	7.2	7.2	7.2	10.2	26.2	24.2	19.2	19.2	23.8														
2	ISV20EC002	ANGANA A	8	9	14	2	6	2	3	26	10	2	2	2	2	2	11	2.2	2.2	2.2	2.2	2.2	10.2	12.2	7.2	16.2	14.2	18.1														
3	ISV20EC003	IBHUMKA S	16	12	20	11	4	8	8	18	7	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	10.2	16.2	12.2	19.2	13.2	14.3														
4	ISV20EC004	CHITRASHREE H.K.	21	13	18	12	8	7	8	10	8	2	2	2	2	2	23	4.6	4.6	4.6	4.6	4.6	14.6	21.6	12.6	16.6	14.0	15.1														
5	ISV20EC005	DARSHAN M R	11	14	18	3	6	2	8	16	2	2	2	2	2	2	31	4.2	4.2	4.2	4.2	4.2	14.2	18.2	13.2	12.2	8.2	13.9														
6	ISV20EC006	GAGANASHREE H.S.	11	14	24	7	4	5	9	12	12	2	2	2	2	2	12	2.4	2.4	2.4	2.4	2.4	8.4	12.4	13.4	16.4	16.4	14.7														
7	ISV20EC007	HARSHITH M J	20	8	18	10	5	6	3	12	7	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	13.2	18.2	11.2	11.2	13.7	14.6														
8	ISV20EC008	HARSHITHA S	26	20	30	16	13	10	10	20	10	2	2	2	2	2	31	7.4	7.4	7.4	7.4	7.4	22.4	32.4	18.4	24.4	19.4	20.1														
9	ISV20EC009	OMTIYAZ PASHA	6	10	26	4	2	5	5	16	10	2	2	2	2	2	5	7.6	7.6	7.6	7.6	7.6	11.6	16.6	14.6	15.6	19.6	21.1														
10	ISV20EC010	MEDHANA N G	21	8	18	10	11	6	2	8	10	2	2	2	2	2	31	4.2	4.2	4.2	4.2	4.2	17.2	23.2	8.2	13.2	14.2	10.8														
11	ISV20EC011	MEKTHA H.S.	38	40	40	20	19	20	20	20	20	2	2	2	2	2	44	8.8	8.8	8.8	8.8	8.8	29.8	49.8	30.8	32.8	30.8	25.2														
12	ISV20EC012	NAGARAJ	14	18	13	10	4	9	9	7	8	2	2	2	2	2	11	2.2	2.2	2.2	2.2	2.2	8.2	12.2	13.2	11.2	10.2	23.2														
13	ISV20EC013	PRATHIKSHA B	14	20	31	3	11	12	8	12	18	2	2	2	2	2	22	4.4	4.4	4.4	4.4	4.4	17.4	26.4	14.4	18.4	25.4	18.5														
14	ISV20EC014	R.M. SUREETRA	40	40	40	20	20	20	20	20	20	2	2	2	2	2	29	6.6	6.6	6.6	6.6	6.6	27.6	47.6	27.6	27.6	27.6	26.4														
15	ISV20EC015	RACHANA N	22	27	38	17	5	11	16	18	14	2	2	2	2	2	36	7.2	7.2	7.2	7.2	7.2	14.2	25.2	25.2	25.2	18.2	27.2														
16	ISV20EC016	S PAVITHRA	38	38	40	18	20	19	20	20	20	2	2	2	2	2	27	6.4	6.4	6.4	6.4	6.4	27.4	46.4	27.4	27.4	27.4	26.9														
17	ISV20EC017	SHEHRIA DEEJAK	39	38	40	20	19	20	19	20	20	2	2	2	2	2	35	7	7	7	7	7	28	48	18	18	29	31.8														
18	ISV20EC018	YASHAS K R	18	21	22	9	9	10	11	4	18	2	2	2	2	2	23	4.6	4.6	4.6	4.6	4.6	15.6	25.6	17.6	10.6	16.6	21.4														
19	ISV20EC019	HARSHITHA	32	15	18	18	18	8	10	12	7	2	2	2	2	2	24	4.8	4.8	4.8	4.8	4.8	23.8	27.8	16.8	18.8	13.8	29.4														
20	ISV21EC400	MANOJ M R	18	14	18	12	8	5	8	11	7	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	12.2	17.2	15.2	17.2	13.2	12.5														
																							17.28	26.88	17.73	21.83	19.08															
																							19.28%	30.64%	31.14%	23.93%	35.79%															

Ram
COURSE INSTRUCTOR

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Principals
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**Department of Electronics & Communication Engg****Course Outcomes and CO-PO Articulation Matrix****2021-22 Scheme****Semester-III**

Subject: COMPUTER ORGANISATION ARCHITECTURE										Subject Code: 18EC35			
PROF. NAYANA M S													
Course Outcomes													
CO1	Explain the basic organization of a computer system.												
CO2	Explain different ways of accessing an input / output device including interrupts.												
CO3	Illustrate the organization of different types of semiconductor and other secondary storage memories.												
CO4	Design applications of Combinational & Sequential Circuits.												
CO5	Illustrate simple processor organization based on hardwired control and micro programmed control												
CO-PO Mapping													
COs	Pos												
	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	2	2	2	1	2					1		1	
CO2	2	2	2	2	2					1		1	
CO3	2	2	2	2	2					2		1	
CO4	2	2	2	2	2					1		2	
CO5	2	2	2	2	2					1		1	
Average	2	2	2	1.8	2					1		1.2	

ATTAINMENT TABLE

COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	65.93%	1.31	1.31	1.31	0.65	1.31					0.65		0.65
CO2	76.75%	1.53	1.53	1.53	1.53	1.53					0.76		0.76
CO3	71.79%	1.43	1.43	1.43	1.43	1.43					1.43		0.71
CO4	72.31%	1.44	1.44	1.44	1.44	1.44					0.72		1.44
CO5	67.14%	1.34	1.34	1.34	1.34	1.34					0.67		0.67
AVERAGE		1.41	1.41	1.41	1.27	1.41					0.84		0.85
TOTAL ATTAINMENT													1.108


COURSE INSTRUCTOR


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**Department of Electronics & Communication Engg**
Course Outcomes and CO-PO Articulation Matrix**2021-22 Scheme****Semester-III**

Subject: DIGITAL SYATEM DESIGN										Subject Code: 18EC34			
PROF. NAYANA M S													
Course Outcomes													
CO1	Explain the concept of combinational and sequential logic circuits..												
CO2	Design the combinational logic circuits.												
CO3	Design the sequential circuits using SR, JK, D, T flip-flops and Mealy & Moore machines												
CO4	Design applications of Combinational & Sequential Circuits.												
CO5	Principles of combinational logic												
CO-PO Mapping													
COs	Pos												
	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	2	2	2	1	2					1		1	
CO2	2	2	2	2	1					1		1	
CO3	2	2	2	2	2					2		1	
CO4	2	2	2	2	1					1		2	
CO5	2	2	2	2	2					1		1	
Average	2	2	2	1.8	1.6					1		1.2	

ATTAINMENT TABLE

COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	50.24%	1.05	1.05	1.05	0.50	1.05					0.50		0.50
CO2	55.73%	1.11	1.11	1.11	1.11	0.55					0.55		0.55
CO3	42.31%	0.84	0.84	0.84	0.84	0.84					0.84		0.42
CO4	58.86%	1.17	1.17	1.17	1.17	0.59					0.59		1.17
CO5	53.00%	1.06	1.06	1.06	1.06	1.06					0.53		0.53
AVERAGE		1.04	1.04	1.04	0.93	0.82					0.60		0.634
TOTAL ATTAINMENT													0.87

COURSE INSTRUCTOR**HOD**
Dept of E&C
SIET TUMKUR**PRINCIPAL**
SIET, TUMAKURU**PRINCIPAL**

**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

SUBJECT	POWER ELECTRONICS AND INSTRUMENTATION	SUBJECT CODE	18EC36
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COURSE OUTCOME

CO1. Analyze the different types of signals and systems.

CO2. •Determine the linearity, causality, time-invariance and stability properties of continuous and discrete time systems.

CO3. • Represent continuous and discrete systems in time and frequency domain using different transforms
Test whether the system is stable.

CO4. Represent continuous and discrete systems in time and frequency domain using different transforms
Test whether the system is stable

CO5. • Explain the signals and systems.

PROGRAM OUTCOMES

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

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

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

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

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

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

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

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

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

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

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

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

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	PROF. SANDHYA R											
BRANCH	ECE			ACADEMIC YEAR				2021-22				
COURSE	B.E	SEMESTER			III	SECTION			ECE			
SUBJECT	POWER ELECTRONICS AND INSTRUMENTATION					SUBJECT CODE			18EC36			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	3	1	1								2
CO2	2	3	1	1								2
CO3	1	2	1	1								1
CO4	3	3	1	1								2
CO5	2	3	1	1								3
AVERAGE	2	2.8	1	1								1.4
OVERALL MAPPING OF SUBJECT												1.72

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	69.86	1.15	1.72	1.5848	0.4848								1.15
CO2	75.04	1.25	1.87	1.5848	0.4848								1.25
CO3	64.32	0.534	1.068	1.5848	0.4848								0.534
CO4	73.41	1.76	1.76	1.5848	0.4848								1.17
CO5	72.58	1.08	1.626	1.5848	0.4848								1.626
AVERAGE		1.154	1.608	1.5848	0.4848								1.146
FINAL ATTAINMENT LEVEL													1.195


Sandhya
COURSE INSTRUCTOR

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Principal
PRINCIPAL
PRINCIPAL

Roll No	USN	SUB CODE	LBC36	2021-2022 ODD										SEM III SEM					PROF. PROF. SANDHYA R					SUB					TOTAL AVERAGE					
				T1			T2			T3				ASSIGNMENT 10/5					SEE					SEE MARKS						Final				
				T1(40)	T2(40)	T3(40)	CO1-20	CO2-20	CO3-20	CO4-20	CO5-20	CO6-20	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	40	CO1-12	CO2-12	CO3-12	CO4-12	CO5-12	CO1-20	CO2-20	CO3-20	CO4-20	CO5-20						
1	1SV20EC001	ABHISHEK B	37	28	22	20	17	20	8	20	2	2	2	2	2	20	5.2	5.2	5.2	5.2	5.2	24.2	44.2	33.2	27.2	9.2	24							
2	1SV20EC002	ANGANA A	18	13	18	8	10	10	3	10	8	2	2	2	2	14	2.8	2.8	2.8	2.8	2.8	14.8	24.8	7.8	14.8	12.8	18.5							
3	1SV20EC003	BHUMIKA S	24	23	35	13	11	20	3	30	5	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	17.2	37.2	9.2	36.2	11.2	18.6							
4	1SV20EC004	CHITRASHREE H K	25	21	30	7	18	10	14	15	15	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	24.2	34.2	17.2	21.2	21.2	22.9							
5	1SV20EC005	DARSHAN M R	11	13	14	10	1	10	8	10	4	2	2	2	2	0	0	0	0	0	3	9	11	7	12	6	15.9							
6	1SV20EC006	GAGANASHREE H K	20	5	25	14	8	0	5	20	5	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	13.2	12.2	11.2	26.2	11.2	11.4							
7	1SV20EC007	HARSHITH M J	15	20	17	10	8	10	10	10	7	2	2	2	2	4	0.8	0.8	0.8	0.8	0.8	7.8	17.8	12.8	12.8	9.8	13.4							
8	1SV20EC008	HARSHITHA S	34	28	27	20	14	20	8	20	7	2	2	2	2	40	8.8	8.8	8.8	8.8	8.8	24.8	44.8	16.8	30.8	17.8	18.1							
9	1SV20EC009	EMTIYAZ PASHA	18	4	18	8	8	4	0	10	8	2	2	2	2	30	7.8	7.8	7.8	7.8	7.8	18.8	22.8	9.8	19.8	17.8	22.2							
10	1SV20EC010	MEGHANA N G	18	21	21	17	2	20	1	20	1	2	2	2	2	30	8	8	8	8	8	10	30	9	38	9	17.4							
11	1SV20EC011	MUKTHA H K	40	40	20	20	20	20	20	0	20	2	2	2	2	52	10.4	10.4	10.4	10.4	10.4	32.4	52.4	32.4	32.4	32.4	24.8							
12	1SV20EC012	NAGARAJ	6	0	26	3	6	0	0	20	0	2	2	2	2	6	1.2	1.2	1.2	1.2	1.2	9.2	9.2	5.2	23.2	9.2	21							
13	1SV20EC013	PRATHIKSHA R	37	20	24	20	17	10	10	20	4	2	2	2	2	22	4.4	4.4	4.4	4.4	4.4	23.4	33.4	16.4	26.4	10.4	25.8							
14	1SV20EC014	B M SUCHITRA	40	40	50	20	20	20	20	30	20	2	2	2	2	36	7.2	7.2	7.2	7.2	7.2	29.2	49.2	29.2	39.2	29.2	28.8							
15	1SV20EC015	RACHANA N	30	20	25	13	17	10	10	20	5	2	2	2	2	30	8	8	8	8	8	25	35	18	28	13	20.5							
16	1SV20EC016	S PAVITHRA	40	40	40	20	20	20	20	20	20	2	2	2	2	32	8.4	8.4	8.4	8.4	8.4	28.4	48.4	28.4	28.4	28.4	28.1							
17	1SV20EC017	SHOBHA HUGAR	40	40	30	20	20	20	20	10	20	2	2	2	2	41	8.2	8.2	8.2	8.2	8.2	30.2	50.2	30.2	20.2	30.2	32.3							
18	1SV20EC018	VASHAS K R	38	4	20	20	18	1	3	10	10	2	2	2	2	23	4.8	4.8	4.8	4.8	4.8	24.8	25.8	9.8	16.8	16.8	25.4							
19	1SV20EC019	HARSHITHA	32	24	18	18	18	20	4	18	8	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	22.2	42.2	30.2	16.2	14.2	18.8							
20	1SV21EC400	MANOJ M R	31	25	25	18	15	20	5	20	5	2	2	2	2	31	8.2	8.2	8.2	8.2	8.2	23.2	43.2	11.2	28.2	13.2	22.8							
																						30.22	33.47	15.32	23.37	15.82								
																						69.72%	76.07%	52.80%	80.50%	54.55%								

Sandya
COURSE INSTRUCTOR


HOD
HOD
Dept of E&C
Sri T. Tumkur-8


PRINCIPAL
PRINCIPAL
Sri T. Tumkur



SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ECE

SUBJECT	SUBJECT CODE	18ESS1
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COURSE OUTCOME

- CO1. 1. Understand the fundamental concepts of Management and Entrepreneurship and opportunities in order to setup a business
- CO2. Identify the various organizations' architecture
- CO3 Describe the functions of Managers, Entrepreneurs and their social responsibilities.
- CO4. Understand the components in developing a business plan
- CO5. Recognize the various sources of funding and institutions supporting entrepreneurs

PROGRAM OUTCOMES

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

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	Mr. Charan											
BRANCH	ECE			ACADEMIC YEAR				2021-22				
COURSE	B.E	SEMESTER			V							
SUBJECT	TECHNOLOGICAL INNOVATION MANAGEMENT & ENTREPRENEURSHIP						SUBJECT CODE		18ES51			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1											3	
CO2											3	
CO3								2	2		3	
CO4											3	
CO5											3	
AVERAGE	---	---	---	---	---	---	---	2	2	---	3	
OVERALL MAPPING OF SUBJECT												2.33

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	64.32											1.93	
CO2	61.46											1.84	
CO3	66.84								1.34	1.34		2.01	
CO4	82.82											2.48	
CO5	87.82											2.63	
AVERAGE	72.65								1.34	1.34		2.17	
FINAL ATTAINMENT LEVEL													1.61

Charan
FACULTY

AS
HOD
HOD
Dept of E&C
SIET, Tumkur-6

PRINCIPAL
Ramesh Kumar
PRINCIPAL
SIET., TUMAKURU.

5th Semester
Technological Innovation Management And Entrepreneurship

AY - 2021-22

SEM: U	IA TEST 1			IA TEST 2			IA TEST 3			Assignment and Seminar					SEE					Total					% of Individual CO				
	CO1	CO2	TOTAL	CO3	CO4	TOTAL	CO4	CO5	TOTAL	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5
	20	20	40	20	20	40	15	15	30	2	2	2	2	2	12	12	12	12	12	34	34	34	49	29					
1SV18EC001	8	7	15	0	0	0	12	16	28	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	15	14	7	19	23	43.5	40.6	20	38.4	78.6
1SV18EC003	9	5	14	5	6	11	15	9	24	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	15	11	11	27	15	44.7	32.9	32.9	55.5	52.4
1SV19EC001	18	12	30	16	14	30	16	19	35	2	2	2	2	2	9	9	9	9	9	29	23	27	41	30	85.3	67.6	79.4	83.7	103
1SV19EC002	12	4	16	15	10	25	12	17	29	2	2	2	2	2	9.4	9.4	9.4	9.4	9.4	23	15	26	33	28	68.8	45.3	77.6	68.2	97.9
1SV19EC003	16	18	34	20	17	37	19	19	38	2	2	2	2	2	9.4	9.4	9.4	9.4	9.4	27	29	31	47	30	80.6	86.5	92.4	96.7	105
1SV19EC005	19	17	36	16	19	35	18	20	38	2	2	2	2	2	8	8	8	8	8	29	27	26	47	30	85.3	79.4	76.5	95.9	103
1SV19EC006	14	11	25	19	17	36	19	16	35	2	2	2	2	2	7.2	7.2	7.2	7.2	7.2	23	20	28	45	25	68.2	59.4	82.9	92.2	86.9
1SV19EC007	11	10	21	0	0	0	20	14	34	2	2	2	2	2	7.2	7.2	7.2	7.2	7.2	20	19	9	29	23	59.4	56.5	27.1	59.6	80
1SV19EC008	16	20	36	18	17	35	19	19	38	2	2	2	2	2	9.4	9.4	9.4	9.4	9.4	27	31	29	47	30	80.6	92.4	86.5	96.7	105
1SV19EC009	18	8	26	12	8	20	16	13	29	2	2	2	2	2	2.4	2.4	2.4	2.4	2.4	22	12	16	28	17	65.9	36.5	48.2	58	60
1SV19EC010	0	0	0	11	17	28	13	16	29	2	2	2	2	2	2.2	2.2	2.2	2.2	2.2	4	4	15	34	20	12.4	12.4	44.7	69.8	69.7
1SV19EC011	16	17	33	17	18	35	20	17	37	2	2	2	2	2	7.8	7.8	7.8	7.8	7.8	26	27	27	48	27	75.9	78.8	78.8	97.6	92.4
1SV19EC012	17	15	32	19	17	36	18	19	37	2	2	2	2	2	7.6	7.6	7.6	7.6	7.6	27	25	29	45	29	78.2	72.4	84.1	91	98.6
1SV19EC013	15	14	29	18	20	38	19	18	37	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	24	23	27	48	27	69.4	66.5	78.2	97.1	91.7
1SV19EC014	14	18	32	19	13	32	20	16	36	2	2	2	2	2	6.2	6.2	6.2	6.2	6.2	22	26	27	41	24	65.3	77.1	80	84.1	83.4
1SV19EC015	12	20	32	11	26	37	19	18	37	2	2	2	2	2	9.2	9.2	9.2	9.2	9.2	23	31	22	56	29	68.2	91.8	65.3	115	101
1SV19EC016	12	8	20	12	19	31	20	14	34	2	2	2	2	2	7.2	7.2	7.2	7.2	7.2	21	17	21	48	23	62.4	50.6	62.4	98.4	80
1SV19EC017	20	11	31	20	17	37	18	20	38	2	2	2	2	2	9.6	9.6	9.6	9.6	9.6	32	23	32	47	32	92.9	66.5	92.9	95.1	109
1SV19EC018	11	20	31	19	20	39	18	20	38	2	2	2	2	2	10	10	10	10	10	23	32	31	50	32	67.6	94.1	91.2	102	110
1SV19EC019	18	20	38	16	19	35	20	18	38	2	2	2	2	2	9.6	9.6	9.6	9.6	9.6	30	32	28	51	30	87.1	92.9	81.2	103	102
1SV19EC021	19	7	26	19	16	35	19	16	35	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	28	16	28	44	25	81.2	45.9	81.2	89	84.8
1SV19EC022	15	10	25	17	16	33	19	15	34	2	2	2	2	2	9	9	9	9	9	26	21	28	46	26	76.5	61.8	82.4	93.9	89.7
1SV19EC023	16	15	31	12	20	32	16	20	36	2	2	2	2	2	7.8	7.8	7.8	7.8	7.8	26	25	22	46	30	75.9	72.9	64.1	93.5	103
1SV19EC024	11	11	22	0	0	0	15	11	26	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	20	20	9	24	20	57.6	57.6	25.3	48.2	67.6
1SV19EC025	12	19	31	15	16	31	16	19	35	2	2	2	2	2	8.4	8.4	8.4	8.4	8.4	22	29	25	42	29	65.9	86.5	74.7	86.5	101
1SV19EC027	16	14	30	19	19	38	18	19	37	2	2	2	2	2	8.2	8.2	8.2	8.2	8.2	26	24	29	47	29	77.1	71.2	85.9	96.3	101
1SV19EC028	13	12	25	7	9	16	17	11	28	2	2	2	2	2	7.4	7.4	7.4	7.4	7.4	22	21	16	35	20	65.9	62.9	48.2	72.2	70.3
1SV19EC029	15	16	31	16	14	30	19	16	35	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	23	24	24	41	24	68.8	71.8	71.8	84.5	84.1
1SV19EC030	0	3	3	0	0	0	11	10	21	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	7	10	7	18	17	20	28.8	20	36.3	57.9
1SV19EC031	0	0	0	9	6	15	10	15	25	2	2	2	2	2	0	0	0	0	0	2	2	11	18	17	5.88	5.88	32.4	36.7	58.6
1SV19EC032	8	12	20	16	18	34	19	14	33	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	17	21	25	46	23	48.8	60.6	72.4	93.1	77.9
1SV20EC400	15	6	21	18	14	32	20	13	33	2	2	2	2	2	8.4	8.4	8.4	8.4	8.4	25	16	28	44	23	74.7	48.2	83.5	90.6	80.7
1SV20EC401	15	16	31	16	20	36	18	19	37	2	2	2	2	2	6	6	6	6	6	23	24	24	46	27	67.6	70.6	70.6	93.9	93.1
1SV20EC402	15	16	31	15	16	31	19	16	35	2	2	2	2	2	7.6	7.6	7.6	7.6	7.6	25	26	25	45	26	72.4	75.3	72.4	91	88.3
1SV19EC033	0	0	0	14	20	34	16	20	36	2	2	2	2	2	8.6	8.6	8.6	8.6	8.6	11	11	25	47	31	31.2	31.2	72.4	95.1	106
Total	446	412	858	476	498	974	603	572	1175	70	70	70	70	70	249	249	249	249	249	765	731	795	1420	891	2251	2151	2339	2899	3074
No. of students	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
Average	12.7	11.8	24.514	13.6	14.2	27.829	17.2	16.3	33.571	2	2	2	2	2	7.13	7.13	7.13	7.13	7.13	21.9	20.9	22.7	40.6	25.5	64.3	61.5	66.8	82.8	87.8

Sri Chandra

AP

SIET., TUMAKURU

**DEPARTMENT OF ELECTRONICS & COMMUNICATION**

EM: V

ACADEMIC YEAR:2021-2022

SUBJECT	PRINCIPLES OF COMMUNICATION STSYSTEMS	SUBJECT CODE	18EC53
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COURSE OUTCOME

- CO1.** Design of simple system for generating and demodulating AM/DSBSC/SSB/VSB and to determine their performance in time & frequency.
- CO2.** Understanding the concepts in angle modulation for design of communication system & to design simple system for generating and demodulating FM signals
- CO3.** Learn the concepts of random process and various types of noise, to characterize the influence of channel on analog modulated signals
- CO4** Analyze sampling techniques Time division multiplexing and pulse modulation
- CO5.** Analyze and demonstrate the process of the use of quantization and digital formatting in multipliers, vocoders, video transmission

PROGRAM OUTCOMES

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

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	Prof.AIJAZ AHAMED SHARIEF											
BRANCH	ECE			ACADEMIC YEAR				2021-2022				
COURSE	B.E	SEMESTER		V	SECTION			A				
SUBJECT	PRINCIPLES OF COMMUNICATION SYSTEMS						SUBJECT CODE		18EC53			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2	3		2							
CO2	2	2	3									
CO3	2	2										
CO4	2	2										
CO5	2	2			2							
AVERAGE	2	2	3		2							
OVERALL MAPPING OF SUBJECT												2.25

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	58.94	1.17	1.17	1.76		1.17							
CO2	57.53	1.15	1.15	1.72									
CO3	67.68	1.35	1.35										
CO4	72.30	1.44	1.44										
CO5	59.69	1.19	1.19			1.19							
AVERAGE	63.22	1.26	1.26	1.74		1.18							
FINAL ATTAINMENT LEVEL													1.36


COURSE INSTRUCTOR


HOD
HOD
Dept of E&C
SIET, Tumkur-6


PRINCIPAL



DEPARTMENT OF ELECTRONICS AND COMMUNICATION

SUBJECT	INFORMATION THEORY AND CODING	SUBJECT CODE	18EC54
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COURSE OUTCOME:

Course Outcomes or COs

After studying this course, students will be able to:

CO1: Explain concept of Dependent & Independent Source, measure of information, Entropy, Rate of Information and Order of a source

CO2: Represent the information using Shannon Encoding, Shannon Fano, Prefix and Huffman Encoding Algorithms

CO3: Model the continuous and discrete communication channels using input, output and joint probabilities

CO4: Determine a codeword comprising of the check bits computed using Linear Block codes, cyclic codes & convolutional codes

CO5: Design the encoding and decoding circuits for Linear Block codes, cyclic codes, convolutional codes, BCH and Golay code

PROGRAM OUTCOMES

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

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

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

P04 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend,

analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

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

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

P07 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

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

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

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

P011 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

P012 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	DR.LOKESH B S											
BRANCH	ECE			ACADEMIC YEAR				2021-22				
COURSE	B.E	SEMESTER			V	SECTION			ECE			
SUBJECT	INFORMATION THEORY AND CODING					SUBJECT CODE			18EC54			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
18EC54.1	3	2	3	2	3	3	-	-	-	-	3	3
18EC54.2	3	3	3	2	3	2	-	-		-	3	2
18EC54.3	3	3	3	2	3	3					2	3
18EC54.4	3	3	3	2	3	3					3	3
18EC54.5	3	3	3	2	3	3					3	3
Avg. Mapping	3	2.8	3	2	3	2.8					2.8	2.8
OVERALL MAPPING OF SUBJECT												2.77

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	68.62	2.05	1.37	2.05	1.37	2.05	2.05	-	-	-	-	2.05	2.05
CO2	71.63	2.14	2.14	2.14	1.43	2.14	1.44	-	-	-	-	2.14	1.43
CO3	67.09	2.01	2.01	2.01	1.34	2.01	2.01					1.34	2.01
CO4	71.96	2.15	2.15	2.15	1.43	2.15	2.15					2.15	2.15
CO5	70.46	2.11	2.11	2.11	1.40	2.11	2.11					2.11	2.11
AVERAGE	69.95	2.09	1.95	2.09	1.39	2.09	1.95					1.95	1.95
FINAL ATTAINMENT LEVEL													1.93

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**Department of Electronics & Communication Engg****Course Outcomes and CO-PO Articulation Matrix****2018 Scheme****Semester-VII**

Subject: COMPUTER NETWORK										Subject Code: 18EC71			
FACULTY NAME: PROF.PRADEEPKUMAR S S													
Course Outcomes													
CO1	Understand the concepts of networking.												
CO2	Describe the various networking architectures.												
CO3	Identify the protocols and services of different layers												
CO4	Distinguish the basic network configurations and standards associated with each network.												
CO5	Analyze a simple network and measure its parameters.												
CO-PO Mapping													
COs	Pos												
	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	2	2	1	1	2					1		1	
CO2	2	2	2	2	2					1		1	
CO3	2	2	2	2	2					2		1	
CO4	2	2	2	2	2					1		2	
CO5	2	2	2	2	2					1		1	
Average	2	2	1.8	1.8	2					1		1.2	

ATTAINMENT TABLE

COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	63.34%	1.26	1.26	0.63	0.63	0.63					0.63		0.63
CO2	71.53%	1.43	1.43	1.43	1.43	1.43					0.71		0.71
CO3	62.79%	1.25	1.25	1.25	1.25	1.25					1.25		0.62
CO4	61.52%	1.23	1.23	1.23	1.23	1.23					0.61		1.23
CO5	59.89%	1.19	1.19	1.19	1.19	1.19					0.59		0.59
AVERAGE		1.3	1.3	1.15	1.15	1.14					0.76		0.75
TOTAL ATTAINMENT													1.07

Pradeep Kumar S S
SUBJECT FACULTY

Pradeep Kumar S S
HOD
HOD
Dept of E&C
SIET, Tumkur-6

Manjunath Kumar
PRINCIPAL
SIET., TUMAKURU.

Roll No.	LIBN	Name	2021-2022-000																							TOTAL AVERAGE														
			SEM I/SEM					PROF PRADE/PELUMAR I I					SUB-COMPUTER NETWORK																											
			T1	T2	T3	ASSIGNMENT 2021					80	SEE MARKS					Total																							
T1	T2	T3	CO1-20	CO2-20	CO3-20	CO4-20	CO5-20	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	80	CO1-12	CO2-12	CO3-12	CO4-12	CO5-12	CO1-20	CO2-20	CO3-21	CO4-20	CO5-21																	
1	15V17BC012	RAVISH KUMAR	35	22	28	18	18	13	10	17	11	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	24.2	20.2	18.2	19.2	19.2	21.4												
2	15V18BC002	ANUSHA G S	40	32	38	20	20	20	12	20	18	2	2	2	2	2	26	7	7	7	7	7	39	28	31	28	27	24.1												
3	15V18BC004	BASAVARA	35	27	28	20	18	20	7	20	18	2	2	2	2	2	28	6.6	6.6	6.6	6.6	6.6	23.8	28.8	19.8	26.8	19.1	25.8												
4	15V18BC005	BHABATHI M	40	38	38	20	20	18	20	20	16	2	2	2	2	2	28	5	5	5	5	5	37	25	27	27	25	25.3												
5	15V18BC006	BHINDA K	40	40	38	20	20	20	20	20	16	2	2	2	2	2	28	5.2	5.2	5.2	5.2	5.2	27.2	27.2	27.2	27.2	28.2	28.1												
6	15V18BC007	CHANDANA D	40	40	40	20	20	20	20	20	20	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	28.2	28.2	28.2	28.2	28.2	27.3												
7	15V18BC008	DEVIKA L	40	38	38	20	20	18	20	20	16	2	2	2	2	2	21	6.2	6.2	6.2	6.2	6.2	26.2	24.2	26.2	26.2	24.2	26.8												
8	15V18BC009	GURANNAGOLUDA	37	40	40	20	17	20	20	20	20	2	2	2	2	2	44	8.8	8.8	8.8	8.8	8.8	27.8	30.8	30.8	30.8	30.8	27.8												
9	15V18BC010	KETANRAJ S	35	38	40	20	15	18	17	20	20	2	2	2	2	2	30	7.8	7.8	7.8	7.8	7.8	24.8	28.8	28.8	29.8	28.8	28.1												
10	15V18BC011	LATHASHREE K B	40	38	38	20	20	20	18	20	18	2	2	2	2	2	20	5.6	5.6	5.6	5.6	5.6	27.8	27.8	28.8	27.8	23.8	27.3												
11	15V18BC013	MOUNISH GOUDA	37	38	40	20	17	18	18	20	20	2	2	2	2	2	41	6.2	6.2	6.2	6.2	6.2	27.2	28.2	28.2	30.2	30.2	28.1												
12	15V18BC014	MOUNIKA Y	40	40	40	20	20	20	20	20	20	2	2	2	2	2	40	5.8	5.8	5.8	5.8	5.8	31.8	31.8	31.8	31.8	31.8	30.5												
13	15V18BC014	NAGESH D B	38	27	28	20	18	20	7	20	18	2	2	2	2	2	41	6.2	6.2	6.2	6.2	6.2	28.2	30.2	17.2	30.2	25.2	29												
14	15V18BC016	PRASHANTH M	40	28	40	20	20	20	8	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	26.2	26.2	24.2	26.2	26.2	25												
15	15V18BC018	RACHANA S B	32	38	38	17	15	20	18	20	18	2	2	2	2	2	23	4.8	4.8	4.8	4.8	4.8	21.8	26.8	24.8	26.8	22.8	24.3												
16	15V18BC019	SADAF NAZ	38	37	23	20	18	18	18	10	13	2	2	2	2	2	28	5.6	5.6	5.6	5.6	5.6	26.6	26.6	25.6	17.6	30.6	23.9												
17	15V18BC020	SAMEER BICHAGATTI	38	39	40	20	15	20	18	20	20	2	2	2	2	2	46	8	8	8	8	8	26	31	29	31	31	24.5												
18	15V18BC021	SHERISHA B T	35	38	38	20	10	18	20	20	18	2	2	2	2	2	36	7.2	7.2	7.2	7.2	7.2	29.2	27.2	28.2	29.2	27.2	28												
19	15V18BC022	SIDRAM	40	38	38	20	20	20	18	18	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	26.2	26.2	24.2	24.2	26.2	25.8												
20	15V18BC023	SRINIVAS C	40	36	40	20	20	20	18	20	20	2	2	2	2	2	33	6.6	6.6	6.6	6.6	6.6	28.6	28.8	24.6	26.6	28.6	26.4												
21	15V18BC024	YASHASWINI K Y	35	38	38	20	15	18	18	20	18	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	21.2	24.2	24.2	26.2	24.2	25.5												
22	15V19BC400	ARJUNA B N	40	30	38	20	20	20	10	20	18	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	27.2	27.2	17.2	27.2	25.2	24.4												
23	15V19BC401	JYOTHI R	40	38	40	20	20	18	18	20	20	2	2	2	2	2	30	6	6	6	6	6	28	27	27	28	28	26.2												
24	15V19BC402	MAHADEVAIAH M B	38	28	34	18	20	20	8	18	18	2	2	2	2	2	15	2.6	2.6	2.6	2.6	2.6	24.6	24.6	12.6	26.6	22.6	24.3												
25	15V19BC403	NAVYASHREE S M	40	30	20	20	20	20	18	11	8	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	26.2	26.2	23.2	17.2	15.2	21.2												
26	15V19BC404	PRAVTEEN C D	40	34	25	20	20	18	18	20	15	2	2	2	2	2	15	2.6	2.6	2.6	2.6	2.6	24.6	22.6	20.6	24.6	19.6	21.9												
27	15V19BC405	SWAMY M	33	36	33	20	13	18	18	20	13	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	21.2	27.2	27.2	28.2	21.2	23.7												
																					24.13170	25.25517	22.32414	25.08276	23.56553											87.09%	70.15%	62.01%	69.67%	65.46%

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

SUBJECT	VLSI DESIGN	SUBJECT CODE	18EC72
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COURSE OUTCOME

CO1. Demonstrate understanding of MOS transistor theory, CMOS fabrication flow and technology scaling.

CO2. Draw the basic gates using the stick and layout diagrams with the knowledge of physical design aspects.

CO3. Demonstrate ability to design Combinational, sequential and dynamic logic circuits as per the requirements.

CO4. Interpret Memory elements along with timing considerations.

CO5. Interpret testing and testability issues in VLSI Design.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	DR. UMESHA G B											
BRANCH	ECE			ACADEMIC YEAR				2021-22				
COURSE	B.E	SEMESTER	VII	SECTION			ECE					
SUBJECT	VLSI DESIGN					SUBJECT CODE			18EC72			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	3	1	1								2
CO2	2	3	1	1								2
CO3	1	2	1	1								1
CO4	3	3	1	1								3
CO5	2	3	1	1								2
AVERAGE	2	2.8	1	1								2
OVERALL MAPPING OF SUBJECT												1.760

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	80.41%	1.602	2.251	0.804	0.804								1.602
CO2	48.11%	0.962	1.347	0.481	0.481								0.962
CO3	41.63%	0.832	1.165	0.416	0.416								0.416
CO4	50.44%	1.2942	1.412	0.504	0.504								1.513
CO5	45.54%	1.1620	1.275	0.455	0.455								0.910
AVERAGE	53.22%	1.170	1.49	0.532	0.532								1.064
FINAL ATTAINMENT LEVEL													0.957

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Roll No.	User	Name	SEM-VI SEM TSP-DI JIMESHA G B																				TOTAL AVERAGE											
			2021-2022 OOD					SEM-VI SEM					ASSIGNMENT SOLV					MC MARKS						Final										
			T1	T2	T3	COI-26	COI-27	COI-28	COI-29	COI-30	COI-31	COI-32	COI-33	COI-34	COI-35	COI-36	COI-37	COI-38	COI-39	COI-40	COI-41	COI-42		COI-43	COI-44	COI-45	COI-46	COI-47	COI-48	COI-49	COI-50			
1		DEVYENCHE	33	25	33	15	15	4	14	14	2	2	2	2	2	25	3	3	3	3	3	20	15	8	21	19	18.8							
2		ANURAG	40	40	40	24	10	4	13	14	2	2	2	2	2	36	7.2	7.2	7.2	7.2	7.2	35.2	19.2	13.2	24.2	19.2	22.8							
3		ANURAG	40	40	40	11	7	9	10	14	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	17.2	19.2	12.2	18.2	16.2	16.2							
4		ANURAG	40	40	40	14	2	4	13	10	2	2	2	2	2	36	8.4	8.4	8.4	8.4	8.4	24.4	12.4	14.4	25.4	20.4	19.4							
5		ANURAG	40	40	40	20	15	15	15	15	2	2	2	2	2	34	4.8	4.8	4.8	4.8	4.8	30.8	21.8	21.8	23.8	21.8	22							
6		ANURAG	40	40	40	27	14	3	15	14	2	2	2	2	2	37	7.4	7.4	7.4	7.4	7.2	30.4	23.4	12.4	26.4	23.2	24.36							
7		ANURAG	40	40	40	20	12	12	7	4	2	2	2	2	2	22	4.4	4.4	4.4	4.4	4.4	32.4	15.4	15.4	15.4	15.4	15							
8		ANURAG	40	40	40	15	5	5	11	11	2	2	2	2	2	36	7.2	7.2	7.2	7.2	7.2	34.2	9.2	9.2	22.2	20.2	17							
9		ANURAG	38	35	38	29	15	15	15	15	2	2	2	2	2	24	4.8	4.8	4.8	4.8	4.8	35.8	21.8	21.8	23.8	21.8	25							
10		ANURAG	40	40	40	20	15	7	7	7	2	2	2	2	2	11	2.2	2.2	2.2	2.2	2.2	24.2	14.2	11.2	13.2	11.2	14.8							
11		ANURAG	40	40	40	17	8	8	8	8	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	25.2	14.2	14.2	8.2	8.2	11.2							
12		ANURAG	40	40	40	26	10	5	11	12	2	2	2	2	2	41	8.2	8.2	8.2	8.2	8.2	36.2	26.2	15.2	23.2	22.2	25.4							
13		ANURAG	40	40	40	29	12	14	15	15	2	2	2	2	2	23	4.8	4.8	4.8	4.8	4.8	35.8	18.8	20.8	23.8	21.8	24							
14		ANURAG	40	40	40	8	12	11	8	8	2	2	2	2	2	34	7.2	7.2	7.2	7.2	7.2	17.2	21.2	20.2	17.2	14.2	18							
15		ANURAG	40	40	40	24	15	15	15	14	2	2	2	2	2	31	4.2	4.2	4.2	4.2	4.2	30.2	18.2	18.2	23.2	20.2	21.2							
16		ANURAG	40	40	40	29	14	15	12	14	2	2	2	2	2	31	4.2	4.2	4.2	4.2	4.2	35.2	20.2	21.2	20.2	20.2	18.4							
17		ANURAG	20	40	40	20	12	14	15	15	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	35.2	19.2	25.2	22.2	21.2	23.8							
18		ANURAG	40	40	40	26	12	12	13	14	2	2	2	2	2	34	2.8	2.8	2.8	2.8	2.8	33.8	16.8	16.8	16.8	16.8	21.2							
19		ANURAG	30	30	30	25	15	15	14	15	2	2	2	2	2	9	1.8	1.8	1.8	1.8	1.8	22.8	18.8	18.8	18.8	18.8	21.6							
20		ANURAG	35	38	38	25	15	11	13	13	2	2	2	2	2	26	5.2	5.2	5.2	5.2	5.2	33.2	25.2	18.2	22.2	20.2	22.8							
21		ANURAG	40	40	40	21	4	4	5	5	2	2	2	2	2	35	5	5	5	5	5	28	12	12	15	8	14.2							
22		ANURAG	38	27	38	18	14	14	15	15	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	34.2	20.2	20.2	23.2	22.2	21.8							
23		ANURAG	40	40	40	23	13	14	12	12	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	29.2	19.2	20.2	20.2	18.2	21.4							
24		ANURAG	30	27	33	18	7	8	4	4	2	2	2	2	2	15	3	3	3	3	3	24	12	11	11	11	15.8							
25		ANURAG	40	40	40	30	15	15	15	15	2	2	2	2	2	8	1.5	1.5	1.5	1.5	1.5	23.5	18.5	18.5	23.5	18.5	20							
26		ANURAG	30	30	30	11	10	5	5	5	2	2	2	2	2	11	2.2	2.2	2.2	2.2	2.2	15.2	14.2	9.2	8.2	4.2	8.8							
27		ANURAG	38	38	38	26	13	14	15	15	2	2	2	2	2	11	2.2	2.2	2.2	2.2	2.2	30.2	17.2	18.2	21.2	18.2	21.2							
																				28.94%	17.51%	14.94%	18.13%	14.59%										
																				80.47%	48.11%	41.67%	50.44%	35.34%										

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**DEPARTMENT OF ELECTRONICS & COMMUNICATION**

SEM: VII

ACADEMIC YEAR:2021-2022

SUBJECT	SATELLITE COMMUNICATION	SUBJECT CODE	18EC732
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COURSE OUTCOME

- CO1.** Describe the satellite orbits and its trajectories with the definitions of parameters associated with it.
- CO2** Describe the electronic hardware systems associated with the satellite subsystem and earth station.
- CO3.** Compute the satellite link parameters under various propagation conditions with the illustration of multiple access techniques
- CO4** Describe the communication satellites with the focus on national satellite system
- CO5.** Describe the satellites used for applications in remote sensing, weather forecasting and navigation.

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.AIJAZ AHAMED SHARIEF											
BRANCH	ECE			ACADEMIC YEAR				2021-2022				
COURSE	B.E	SEMESTER		VII	SECTION			A				
SUBJECT	SATELLITE COMMUNICATION					SUBJECT CODE		18EC732				
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2										
CO2	2	2										
CO3	2	2										
CO4	2	2	1									
CO5	2	2	1									
AVERAGE	2	2	1									
OVERALL MAPPING OF SUBJECT												1.66

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	74.66	1.49	1.49										
CO2	79.45	1.58	1.58										
CO3	79.01	1.58	1.58										
CO4	80.87	1.61	1.61	0.80									
CO5	82.94	1.65	1.65	0.82									
AVERAGE	79.38	1.58	1.58	0.81									
FINAL ATTAINMENT LEVEL													1.323


COURSE INSTRUCTOR


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SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

Department of Electronics & Communication Engineering

Course Outcomes and CO-PO Articulation Matrix

2018 Scheme

Semester-VII

Subject: MACHINE LEARNING PYTHON FACULTY NAME: PROF.RAGHAVENDRA D										Subject Code: 18EC745			
Course Outcomes													
CO1	Identify the problems in machine learning.												
CO2	Select supervised, unsupervised or reinforcement learning for problem-solving.												
CO3	Apply theory of probability and statistics in machine learning.												
CO4	Apply concept learning, ANN, Bayes classifier, k nearest neighbor.												
CO5	Perform statistical analysis of machine learning techniques.												
CO-PO Mapping													
COs	Pos												
	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	2	2	1	1	2					1		1	
CO2	2	2	2	2	2					1		1	
CO3	2	2	2	2	2					2		1	
CO4	2	2	2	2	2					1		2	
CO5	2	2	2	2	2					1		1	
Average	2	2	1.8	1.8	2					1		1.2	

ATTAINMENT TABLE

COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	63.43%	1.26	1.26	0.63	0.63	1.26					0.63		0.63
CO2	63.14%	1.26	1.26	1.26	1.26	1.26					0.63		0.63
CO3	67.74%	1.27	1.27	1.27	1.27	1.27					1.27		0.63
CO4	67.26%	1.34	1.34	1.34	1.34	1.34					0.61		0.67
CO5	67.45%	1.34	1.34	1.34	1.34	1.34					0.67		0.67
AVERAGE		1.29	1.29	1.16	1.16	1.29					0.76		0.64
TOTAL ATTAINMENT													1.08


FACULTY


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SIFT Tumkur


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Roll No.	USN	Name	T1			T2			T3			ASSIGNMENT 10/5					SEE	SEE MARKS					Final					TOTAL AVERAGE
			T1	T2	T3	CO1-20	CO2-20	CO3-20	CO3-20	CO4-20	CO5-20	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2		CO1-12	CO2-12	CO3-12	CO4-12	CO5-12	CO1-20	CO2-20	CO3-21	CO4-20	CO5-21	
1	15V17EC012	RAVESH KUMAR	36	36	37	18	18	20	18	17	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	24.2	26.2	21.2	23.2	26.2	24.2
2	15V18EC002	ANUSHA G S	37	34	40	18	18	14	20	20	20	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	20.4	21.4	27.4	27.4	27.4	25.1
3	15V18EC004	BASAVARAJ	32	40	38	18	14	20	20	30	18	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	22.4	27.4	27.4	27.4	25.6	25.6
4	15V18EC005	BHARATHI M	38	38	38	18	20	20	18	18	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	26.2	26.2	24.2	25.2	26.2	25.3
5	15V18EC006	BHUNDA K	37	38	40	20	17	20	18	20	20	2	2	2	2	2	28	5.6	5.6	5.6	5.6	5.6	24.6	27.6	25.6	27.6	27.6	26.1
6	15V18EC007	CHANDANA D	38	30	40	20	18	18	20	20	20	2	2	2	2	2	23	4.6	4.6	4.6	4.6	4.6	23.6	18.6	26.6	26.6	26.6	25.5
7	15V18EC008	DEVIKA L	38	40	40	20	18	20	20	20	20	2	2	2	2	2	34	6.8	6.8	6.8	6.8	6.8	24.8	28.8	28.8	28.8	28.8	26.3
8	15V18EC009	GURANNAGOUDA	38	37	40	20	19	18	18	20	20	2	2	2	2	2	35	7	7	7	7	7	28	27	28	29	29	28.1
9	15V18EC010	KETANBAIS	34	37	40	14	20	18	19	20	20	2	2	2	2	2	28	5.6	5.6	5.6	5.6	5.6	27.6	25.6	26.6	27.6	27.6	27.6
10	15V18EC011	LATHASHREE K R	28	30	40	20	8	18	20	20	20	2	2	2	2	2	38	7.6	7.6	7.6	7.6	7.6	17.6	28.6	29.6	28.6	26.6	27
11	15V18EC012	MOONESH GOUDA	38	38	40	20	18	20	19	20	20	2	2	2	2	2	33	6.6	6.6	6.6	6.6	6.6	23.6	28.6	27.6	28.6	28.6	27.5
12	15V18EC013	MOONIKA Y	40	40	40	20	20	20	20	20	20	2	2	2	2	2	30	6.0	6.0	6.0	6.0	6.0	28.0	28.0	28.0	28.0	28.0	28.3
13	15V18EC014	NAGESH D R	30	37	38	20	19	17	20	18	20	2	2	2	2	2	35	6.6	6.6	6.6	6.6	6.6	27.6	25.6	28.6	26.6	28.6	28
14	15V18EC016	PRASHANTH M	35	38	40	17	18	20	19	20	20	2	2	2	2	2	30	6	6	6	6	6	26	28	27	28	28	27.4
15	15V18EC018	RACHANA S R	38	24	40	20	18	14	10	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	25.2	20.2	26.2	26.2	26.2	25.1
16	15V18EC019	SADAF NAZ	38	38	38	20	18	18	20	18	20	2	2	2	2	2	8	1.6	1.6	1.6	1.6	1.6	32.6	21.6	23.6	21.6	23.6	22.9
17	15V18EC020	SAMEER BICHAGATT	38	32	40	20	18	12	20	20	20	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	26.2	20.2	28.2	28.2	28.2	24.4
18	15V18EC021	SHRISHA R T	38	36	30	20	18	18	20	20	16	2	2	2	2	2	24	4.8	4.8	4.8	4.8	4.8	24.8	22.8	26.8	26.8	26.8	24.9
19	15V18EC022	SIDRAM	36	40	40	20	16	20	20	20	20	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	22.2	26.2	26.2	26.2	26.2	24.5
20	15V18EC023	SHINVAS C	34	33	38	14	20	13	20	20	18	2	2	2	2	2	34	6.8	6.8	6.8	6.8	6.8	28.8	21.8	28.8	28.8	28.8	26.2
21	15V18EC024	YASHASWINI K Y	34	32	38	18	18	12	20	20	18	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	25.4	19.4	27.4	27.4	25.4	26
22	15V19EC400	ARUNA R N	38	40	40	18	18	20	20	20	20	2	2	2	2	2	12	2.4	2.4	2.4	2.4	2.4	22.4	24.4	24.4	24.4	24.4	24.5
23	15V19EC401	JYOTHI R	38	33	40	20	18	13	20	20	20	2	2	2	2	2	38	5.2	5.2	5.2	5.2	5.2	25.2	20.2	27.2	27.2	27.2	24.7
24	15V19EC402	MAHADEVIAIAH M B	17	36	32	7	10	18	20	12	20	2	2	2	2	2	9	1.8	1.8	1.8	1.8	1.8	13.8	18.8	23.8	15.8	23.8	22.4
25	15V19EC403	NAVYASHREE S M	35	40	34	17	18	20	20	19	15	2	2	2	2	2	13	2.4	2.4	2.4	2.4	2.4	22.4	26.4	24.4	23.4	19.4	21.1
26	15V19EC404	PRAVEEN G D	37	40	28	20	17	20	20	8	20	2	2	2	2	2	24	4.8	4.8	4.8	4.8	4.8	23.8	26.8	26.8	15.8	26.8	23.4
27	15V19EC405	SWAMY M	32	36	35	14	18	18	20	20	15	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	24.2	25.2	26.2	26.2	21.2	24.3

22.89448 22.75100 24.38621 24.21379 24.28276
63.43% 63.14% 67.74% 67.26% 67.45%


SUBJECT FACULTY


HOD
Dept of E&C
SIET, Tumkur-6


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**SHRIDEVI INSTITUTE OF ENGINEERING
AND TECHNOLOGY, TUMKUR**

DEPARTMENT OF ECE

CO-PO ATTAINMENT

ACADEMIC YEAR

2021-22

EVEN SEM



SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY
SIRA ROAD, TUMKUR- 572 106
DEPARTMENT OF MATHEMATICS
(COMMON TO ALL BRANCHES)
ACADEMIC YEAR: 2021-2022



SUBJECT: COMPLEX ANALYSIS, PROBABILITY AND STATISTICAL METHODS
SUBJECT CODE: 18MAT41

COURSE OUTCOMES:

- CO1:** Use the concepts of analytic function and complex potentials to solve the problems arising in Electromagnetic field theory.
- CO2:** Utilize conformal transformation and complex integral arising in aerofoil theory, fluid flow Visualization and image processing.
- CO3:** Apply discrete and continuous probability distributions in analyzing the probability models arising in Engineering field.
- CO4:** Make use of the correlation and regression analysis to fit a suitable mathematical model for the Statistical data.
- CO5:** Construct joint probability distributions and demonstrate the validity of testing the hypothesis.

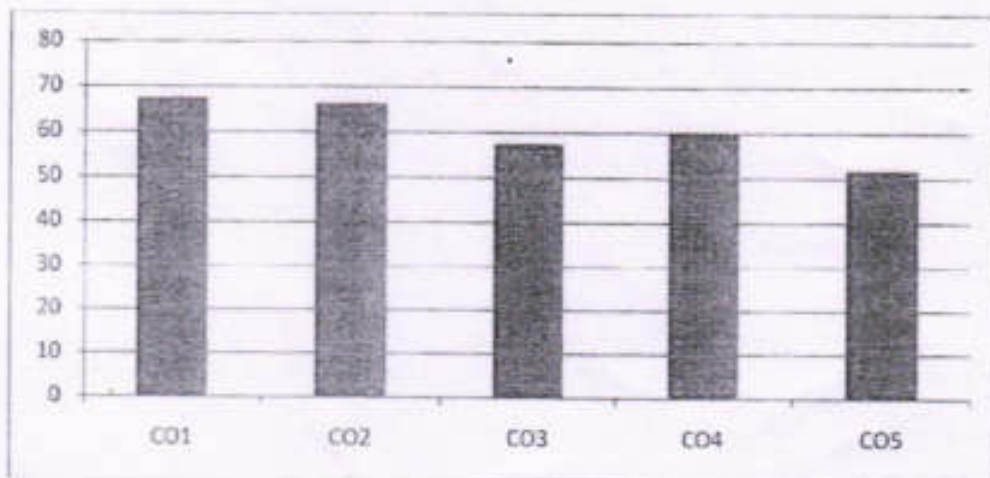
	APPLY KNOWLEDGE	ANALYSIS	DESIGN	INVESTIGATION	MODERN TOOLS	SOCIETY	ENVIRONMENT	ETHICS	TEAM WORK	COMMUNICATION	PROJ MGMT FINANCE	LIFE LONG LEARN
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO1	2	3	0	0	0	0	0	0	0	0	0	1
CO2	2	3	0	0	0	0	0	0	0	0	0	1
CO3	2	3	0	0	0	0	0	0	0	0	0	1
CO4	2	3	0	0	0	0	0	0	0	0	0	1
CO5	2	3	0	0	0	0	0	0	0	0	0	1
AVG	2	3	0	0	0	0	0	0	0	0	0	1

MAPPING CORRELATION	LOW	MODERATELY	HIGHLY	NO
	1	2	3	0

DEPARTMENT OF MATHEMATICS

COLLEGE		SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY					
FACULTY NAME		Dr. KISHOR KUMAR M K/Dr. CHETANA C/Prof. RASHMI S B					
BRANCH		ECE/EEE/CSE/CVE/ISE/ME			ACADEMIC YEAR		2021-22
COURSE	B.E	SEMESTER			IV	SECTION	ALL BRANCHS
SUBJECT	COMPLEX ANALYSIS, PROBABILITY AND STATISTICAL METHODS					SUBJECT CODE	18MAT41
CO & PO MAPPING							

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
CO1	68	1.35	2.03	0	0	0	0	0	0	0	0	0	0.68	
CO2	66	1.33	1.99	0	0	0	0	0	0	0	0	0	0.66	
CO3	58	1.15	1.73	0	0	0	0	0	0	0	0	0	0.58	
CO4	60	1.21	1.81	0	0	0	0	0	0	0	0	0	0.60	
CO5	52	1.04	1.56	0	0	0	0	0	0	0	0	0	0.52	
AVG.	61	1	2	0	0	0	0	0	0	0	0	0	1	
													Final attainment level	1.4



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 Staff in-charge

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 SIE Principaluru

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 PRINCIPAL
 SIET, THAMASURU



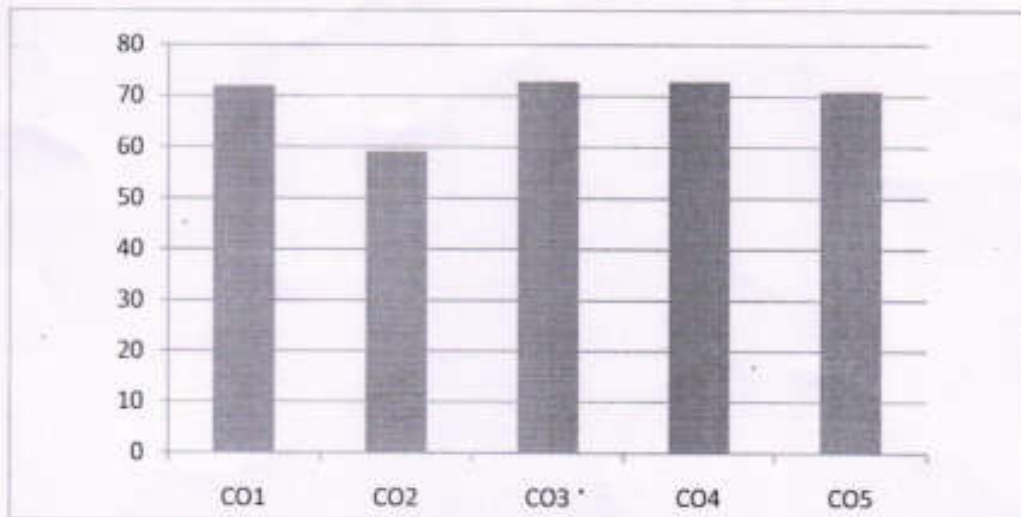
SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY
SIRA ROAD, TUMKUR- 572 106
DEPARTMENT OF MATHEMATICS
(COMMON TO ALL BRANCHES)



COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY				
FACULTY NAME	Dr. CHETANA C/Prof. RASHMI S B				
BRANCH	ECE	ACADEMIC YEAR	2021-2022		
COURSE	B.E	SEMESTER	IV	SECTION	-
SUBJECT	ENGINEERING STATISTICS AND LINEAR ALGEBRA		SUBJECT CODE	18MAT41	

CO & PO MAPPING

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	72	1.44	2.16	0	0	0	0	0	0	0	0	0	0.72
CO2	59	1.18	1.78	0	0	0	0	0	0	0	0	0	0.59
CO3	73	1.46	2.19	0	0	0	0	0	0	0	0	0	0.73
CO4	73	1.46	2.19	0	0	0	0	0	0	0	0	0	0.73
CO5	71	1.42	2.13	0	0	0	0	0	0	0	0	0	0.71
AVG	70	1	2	0	0	0	0	0	0	0	0	0	1
Final attainment level													1.4



Principals Signature
PRINCIPAL
SIET, TUMAKURU.

HOD Signature
HOD



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

DEPARTMENT OF ELECTRONICS AND COMMUNICATION

SUBJECT	ANALOG CIRCUITS	SUBJECT CODE	18EC42
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COURSE OUTCOME:

Course Outcomes or COs

After studying this course, students will be able to:

- CO1:** Understand the characteristics of BJTs and FETs.
- CO2:** Design and analyze BJT and FET amplifier circuits..
- CO3:** Design sinusoidal and non-sinusoidal oscillators
- CO4 :** Understand the functioning of linear ICs
- CO5:** Design of Linear IC based circuits.

PROGRAM OUTCOMES

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

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

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

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

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

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

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

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

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

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

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

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

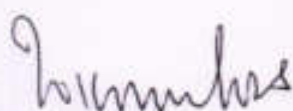
COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	DR.LOKESH B S											
BRANCH	ECE			ACADEMIC YEAR				2021-22				
COURSE	B.E	SEMESTER			IV	SECTION			ECE			
SUBJECT	ANALOG CIRCUITS						SUBJECT CODE			18EC42		
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
18EC42.1	2	3	3	2	3	2	-	-	-	2	-	3
18EC42.2	3	3	3	2	2	3	-	-	-	3	-	2
18EC42.3	3	3	2	2	3	3				2		3
18EC42.4	2	3	3	2	3	3				3		3
18EC42.5	3	3	3	2	3	3				3		3
Avg. Mapping	2.6	3	2.8	2	2.8	2.8				2.6		2.8
OVERALL MAPPING OF SUBJECT												2.6

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	43.24	0.86	1.29	1.29	0.86	1.29	0.86	-	-	-	0.86	-	1.29
CO2	49.40	1.48	1.48	1.48	0.98	0.98	1.48	-	-	-	1.48	-	0.98
CO3	49.96	1.49	1.49	0.99	0.99	1.49	1.49				0.99		1.49
CO4	53.93	1.07	1.61	1.61	1.07	1.61	1.61				1.61		1.61
CO5	43.75	1.31	1.31	1.31	0.87	1.31	1.31				1.31		1.31
AVERAGE	48.05	1.24	1.43	1.33	0.95	1.33	1.35				1.25		1.33
FINAL ATTAINMENT LEVEL													1.27


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**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

SUBJECT	CONTROL SYSTEMS	SUBJECT CODE	18EC43
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COURSE OUTCOME

- CO1.** Develop the mathematical model of mechanical and electrical systems.
- CO2.** Develop transfer function for a given control system using block diagram reduction techniques and signal flow graph method.
- CO3.** • Determine the time domain specifications for first and second order systems.
- CO4.** Determine the stability of a system in the time domain using Routh-Hurwitz criterion and Root-locus technique.
- CO5.** Determine the stability of a system in the frequency domain using Nyquist and bode plots.

PROGRAM OUTCOMES

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

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	PROF. RAGHAVENDRA D											
BRANCH	ECE			ACADEMIC YEAR				2021-22				
COURSE	B.E	SEMESTER			IV	SECTION			ECE			
SUBJECT	CONTROL SYSTEMS					SUBJECT CODE			18EC43			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	3	1	1								2
CO2	2	3	1	1								2
CO3	1	3	1	1								1
CO4	3	3	1	1								2
CO5	2	3	1	1								3
AVERAGE	2	3	1	1								1.4
OVERALL MAPPING OF SUBJECT												1.72

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	78.24%	1.56	2.34	0.78	0.78								1.56
CO2	73.04%	1.46	2.19	0.73	0.73								1.25
CO3	73.47%	0.73	2.19	0.73	0.73								0.73
CO4	74.12%	2.22	2.22	0.74	0.74								1.48
CO5	74.12%	1.48	2.22	0.74	0.74								2.22
AVERAGE		1.49	2.23	0.74	0.74								1.44
FINAL ATTAINMENT LEVEL													1.32

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Manjunath
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SIET, TUMAKURU.

Sl. No.	URN	Name	2021-2022 Even			SEM IV SEM					IP/Practical/Projects					SEI	SEI MARKS					Total	TOTAL AVERAGE				
			T1	T2	T3	E1			T3		ASSESSMENT 10/3						49	SEI MARKS									
						CO1-20	CO2-18	CO3-18	CO4-18	CO5-18	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2			CO1-12	CO2-12	CO3-12	CO4-12			CO5-12	CO1-24	CO2-24	CO3-24
1	ABHIRAM B	ISV2BC08	7	22	21	7	12	10	15	8	2	2	2	2	2	35	7	7	7	7	7	16	21	19	20	13	19.4
2	ANJANA A	ISV2BC08	8	13	17	8	7	6	17	0	2	2	2	2	2	0	0	0	0	0	10	9	8	21	2	10	
3	BHUBHAK S	ISV2BC08	21	21	27	21	11	10	20	7	2	2	2	2	2	17	34	34	34	34	34	28.4	18.4	15.4	27.4	12.4	19.6
4	CHITRAMBEE H E	ISV2BC08	8	14	25	8	12	12	15	10	2	2	2	2	2	10	2	2	2	2	2	12	16	16	21	14	13.8
5	DARSHAN M P	ISV2BC08	5	14	12	5	7	7	10	2	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	11.2	13.2	13.2	18.2	8.2	12.8
6	GAGANASHREE H V	ISV2BC08	27	29	20	27	20	9	10	10	2	2	2	2	2	11	2.2	2.2	2.2	2.2	2.2	31.2	24.2	13.2	16.2	14.2	19.8
7	HARSHITH M J	ISV2BC07	23	25	28	23	15	10	20	8	2	2	2	2	2	18	3.6	3.6	3.6	3.6	3.6	28.6	20.6	15.6	27.6	11.6	21.2
8	HARSHITH S	ISV2BC08	29	30	30	29	15	15	15	15	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	35.2	21.2	21.2	23.2	21.2	24.4
9	IMTIYAZ FARHA	ISV2BC08	5	15	13	5	10	8	10	3	2	2	2	2	2	3	0.8	0.8	0.8	0.8	0.8	7.8	12.8	7.8	14.8	5.8	9.6
10	MEGHANA H C	ISV2BC08	10	24	25	10	20	4	15	10	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	16.2	29.2	10.2	23.2	16.2	18.4
11	MEKHA H A	ISV2BC05	30	26	30	30	20	6	15	15	2	2	2	2	2	24	4.8	4.8	4.8	4.8	4.8	36.8	29.8	12.8	23.8	21.8	24.4
12	NAGARAJ	ISV2BC07	7	6	15	7	3	3	10	5	2	2	2	2	2	7	1.4	1.4	1.4	1.4	1.4	10.4	6.4	6.4	15.4	6.4	9.4
13	PRATHIKSHA E	ISV2BC05	21	29	20	21	20	9	10	10	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	27.2	26.2	15.2	18.2	16.2	20.6
14	S M SUCHEETA	ISV2BC04	29	20	30	29	15	5	15	15	2	2	2	2	2	38	7.8	7.8	7.8	7.8	7.8	38.6	24.6	14.6	26.6	24.6	25.8
15	RACHANA H	ISV2BC05	30	29	30	30	20	9	15	15	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	36.2	26.2	15.2	23.2	21.2	24.4
16	SPAVITHRA	ISV2BC06	0	8	23	0	4	4	20	3	2	2	2	2	2	30	6	6	6	6	6	8	12	12	30	11	14.6
17	SHOBHA HUGAR	ISV2BC07	0	26	24	0	20	9	15	9	2	2	2	2	2	35	7	7	7	7	7	9	29	18	26	18	20
18	VASHAK E	ISV2BC08	5	8	24	5	4	4	12	12	2	2	2	2	2	16	3.2	3.2	3.2	3.2	3.2	10.2	9.2	9.2	19.2	17.2	13
19	HARSHITHA	ISV2BC09	27	26	25	27	20	6	12	13	2	2	2	2	2	26	3.2	3.2	3.2	3.2	3.2	32.2	25.2	11.2	19.2	18.2	21.2
20	MANV M R	ISV2BC00	23	30	24	23	15	15	12	13	2	2	2	2	2	24	4.8	4.8	4.8	4.8	4.8	29.8	21.8	21.8	20.8	19.8	22.8
																						21.64	19.39	9.5103	15.2	10.303448	
																						48.18%	66.86%	32.79%	32.41%	85.53%	

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Department of Electronics & Communication Engg
Course Outcomes and CO-PO-PSO Articulation Matrix
2018 Scheme

Academic Year 2021-22

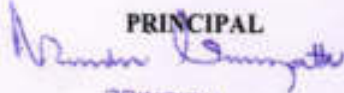
Semester-IV

SUBJECT: SIGNALS & SYSTEMS										Subject Code: 18EC45			
FACULTY NAME : PROF.PRADEEPKUMAR S S													
Course Outcomes													
CO1	Analyze the different types of signals and systems.												
CO2	Determine the linearity, causality, time-invariance and stability properties of continuous and discrete time systems.												
CO3	Represent continuous and discrete systems in time and frequency domain using different transforms Test whether the system is stable.												
CO4	Different properties of Fourier transform												
CO5	Transform analysis of LTI systems and Z Transforms												
CO-PO-PSO Mapping													
COs	Pos												
	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	3	2								1		1	
CO2	2	2	3							2		1	
CO3	3	2	2							1		1	
CO4	3	1								1		1	
CO5	3												
Average	2.8	1.4	2.5							1.25		1	

ATTAINMENT TABLE													
COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	52.77%	1.58	1.05								0.52		0.52
CO2	48.51%	0.97	0.97	1.45							0.97		0.48
CO3	31.20 %	0.93	0.624	0.62							0.31		0.31
CO4	42.85%	1.28	0.42								0.42		0.42
CO5	38.80%	1.164											
AVERAGE		1.18	0.76	1.03							0.55		0.43
TOTAL ATTAINMENT													0.79


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Roll No.	URN	Name	SEMESTER I					SEMESTER II					SEMESTER III					Sem	SEMESTER IV					Total	TOTAL AVERAGE			
			THEORY					PRACTICAL					THEORY						PRACTICAL									
			T1	T2	T3	CO1-30	CO2-18	CO3-18	CO4-18	CO5-18	CO6-18	CO1-2	CO2-2	CO3-2	CO4-2	CO5-2	CO1-2		CO2-2	CO3-2	CO4-2	CO5-2	CO1-2			CO2-2	CO3-2	CO4-2
1	ABHINAV B	SV28C001	8	12	12	8	8	8	8	8	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	12.2	12.2	12.2	14.2	12.2	12.8	
2	ANJANA A	SV28C001	10	12	12	10	8	8	8	8	2	2	2	2	2	1	0.2	0.2	0.2	0.2	0.2	12.2	8.2	8.2	10.2	8.2	9.4	
3	BHUMIKA S	SV28C001	20	7	22	20	3	4	11	11	2	2	2	2	2	23	4.6	4.6	4.6	4.6	4.6	26.6	9.6	10.6	19.6	17.6	16.8	
4	CHITRAKSHEE H E	SV28C001	20	13	23	20	6	7	11	12	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	26.2	12.2	13.2	19.2	18.2	17.8	
5	DARSHAN M E	SV28C001	18	12	14	18	6	6	9	6	2	2	2	2	2	11	2.75	2.75	2.75	2.75	2.75	20.75	10.75	10.75	15.75	9.75	13.55	
6	DEEPAKASHREE H K	SV28C001	20	3	21	20	1	2	11	10	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	26.2	9.2	10.2	21.2	18.2	17.4	
7	HARSHITH M I	SV28C001	18	12	28	18	5	7	10	18	2	2	2	2	2	23	4.6	4.6	4.6	4.6	4.6	24.6	11.6	13.6	18.6	24.6	18.6	
8	HARSHITHAS	SV28C001	27	18	30	27	9	9	15	15	2	2	2	2	2	36	7.2	7.2	7.2	7.2	7.2	36.2	18.2	18.2	20.2	34.2	24.6	
9	IMTI AZ PABHA	SV28C001	8	0	0	8	0	0	0	0	2	2	2	2	2	3	0.6	0.6	0.6	0.6	0.6	10.6	2.6	2.6	4.6	2.6	4.0	
10	MEGHANA H G	SV28C001	13	9	16	13	5	4	8	8	2	2	2	2	2	23	4.6	4.6	4.6	4.6	4.6	19.6	11.6	10.6	16.6	14.6	14.6	
11	MUKTHA H K	SV28C001	27	22	30	27	11	11	15	15	2	2	2	2	2	28	5.6	5.6	5.6	5.6	5.6	34.6	18.6	18.6	24.6	22.6	23.8	
12	NAGARAJ	SV28C001	3	4	0	3	2	2	0	0	2	2	2	2	2	9	1.8	1.8	1.8	1.8	1.8	6.8	5.8	5.8	5.8	3.8	5.6	
13	TRATHESHA P	SV28C001	20	11	15	20	9	2	7	6	2	2	2	2	2	21	4.2	4.2	4.2	4.2	4.2	28.2	15.2	8.2	15.2	14.2	15.8	
14	R.M.SUCHITHA	SV28C001	29	27	30	29	14	13	15	15	2	2	2	2	2	44	8.8	8.8	8.8	8.8	8.8	39.8	24.8	23.8	27.8	25.8	28.4	
15	RACHANA H	SV28C001	29	24	30	29	12	12	15	15	2	2	2	2	2	30	6	6	6	6	6	37	20	20	25	23	25	
16	SPANVITHA	SV28C001	0	28	30	0	15	14	11	13	2	2	2	2	2	48	9.6	9.6	9.6	9.6	9.6	11.6	26.6	25.6	24.6	24.6	22.6	
17	SHOBHA HEGAR	SV28C001	0	18	24	0	9	9	10	9	2	2	2	2	2	27	5.4	5.4	5.4	5.4	5.4	7.4	16.4	16.4	19.4	16.4	15.2	
18	TANVISH K	SV28C001	11	13	19	11	10	3	9	8	2	2	2	2	2	31	6.2	6.2	6.2	6.2	6.2	19.2	18.2	11.2	19.2	16.2	16.8	
19	HARSHITHA	SV28C001	26	11	17	26	9	2	8	9	2	2	2	2	2	29	5.8	5.8	5.8	5.8	5.8	33.8	16.8	9.8	17.8	16.8	19	
20	MAHEE M R	SV28C001	24	12	12	24	6	6	8	6	2	2	2	2	2	24	4.8	4.8	4.8	4.8	4.8	30.8	12.8	12.8	14.8	12.8	16.8	
																						21.218	14.0675	9.04655	12.426	11.253		
																							32.77%	48.51%	31.20%	42.85%	38.80%	

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Course Outcomes and CO-PO-PSO Articulation Matrix
2018 Scheme

Academic Year 2021-22

Semester-IV

SUBJECT: MICROCONTROLLER							Subject Code: 18EC46						
FACULTY NAME : PROF.RAGHAVENDRA D													
Course Outcomes													
CO1	Explain the difference between Microprocessors & Microcontrollers, Architecture of 8051 Microcontroller, Interfacing of 8051 to external memory and Instruction set of 8051.												
CO2	Write 8051 Assembly level programs using 8051 instruction set												
CO3	Explain the Interrupt system, operation of Timers/Counters and Serial port of 8051.												
CO4	Write 8051 Assembly language program to generate timings and waveforms using 8051 timers, to send & receive serial data using 8051 serial port and to generate an external interrupt using a switch												
CO5	Write 8051 Assembly language programs to generate square wave on 8051 I/O port pin using interrupt and C Programme to send & receive serial data using 8051 serial port												
CO-PO-PSO Mapping													
COs	Pos												
	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	2	2											
CO2	2	2	2										
CO3	2		2										
CO4	2	2	2										
CO5	2												
Average	2	1.66	2										

ATTAINMENT TABLE													
COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	61.68%	1.23	1.23										
CO2	64.62%	1.29	1.29	1.29									
CO3	44.80%	0.89		0.89									
CO4	42.43%	0.84	0.84	0.84									
CO5	37.43%	0.74											
AVERAGE		0.85	1.12	1									0.99
TOTAL ATTAINMENT													


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Roll No.	LN	Name	IMC08	IMC	SEM-1 (2021-22) EWIN					SEM-2 (2021-22) EWIN					M1	M2	SEM MARKS					Final					TOTAL AVERAGE
					T1					T2							ASSIGNMENT (AV)										
					CO1-20	CO2-18	CO3-18	CO4-18	CO5-18	CO1-18	CO2-18	CO3-18	CO4-18	CO5-18			CO1-18	CO2-18	CO3-18	CO4-18	CO5-18	CO1-20	CO2-20	CO3-20	CO4-20	CO5-20	
1	ABHIRAM R	18V2BC01	26	24	23	26	12	12	12	11	2	2	2	2	2	21	2.4	2.4	2.4	2.4	2.4	30.4	16.4	16.4	16.4	15.4	19.4
2	AJITHA A	18V2BC02	20	29	14	20	15	14	7	7	2	2	2	2	2	8	1.2	1.2	1.2	1.2	1.2	23.2	16.2	17.2	12.2	10.2	16.2
3	BRUNAKA S	18V2BC03	30	40	29	30	20	20	15	14	2	2	2	2	2	44	3.4	3.4	3.4	3.4	3.4	36.4	25.4	25.4	22.4	19.4	25.0
4	CHITRAHESI H H	18V2BC04	17	24	18	17	12	12	9	9	2	2	2	2	2	21	2.2	2.2	2.2	2.2	2.2	21.2	16.2	16.2	15.2	13.2	16.4
5	DARSHAN P	18V2BC05	11	10	8	11	9	9	4	4	2	2	2	2	2	42	4.8	4.8	4.8	4.8	4.8	17.8	10.8	15.8	12.8	10.8	14.6
6	GAGANADHAR H H	18V2BC06	30	30	23	30	15	15	12	11	2	2	2	2	2	11	1.4	1.4	1.4	1.4	1.4	33.4	16.4	16.4	17.4	14.4	20.4
7	HARSHITH M J	18V2BC07	29	30	17	29	15	15	8	9	2	2	2	2	2	28	4.2	4.2	4.2	4.2	4.2	35.2	21.2	21.2	16.2	15.2	21.8
8	HARSHITHA D	18V2BC08	30	18	30	30	15	15	15	15	2	2	2	2	2	47	5.6	5.6	5.6	5.6	5.6	37.6	22.6	22.6	24.6	22.6	26
9	INDYAZ PAMIA	18V2BC09	20	22	17	20	8	8	9	8	2	2	2	2	2	6	0.6	0.6	0.6	0.6	0.6	22.6	11.6	11.6	13.6	10.6	14
10	MEGHANA M C	18V2BC10	14	30	16	14	11	11	8	8	2	2	2	2	2	10	2.4	2.4	2.4	2.4	2.4	16.4	15.4	15.4	14.4	12.4	15.2
11	NEETHA H R	18V2BC11	30	18	20	30	15	15	9	8	2	2	2	2	2	32	6.2	6.2	6.2	6.2	6.2	38.2	23.2	23.2	19.2	16.2	24
12	NAGARA I	18V2BC12	12	30	29	12	9	9	6	6	2	2	2	2	2	6	2.8	2.8	2.8	2.8	2.8	16.8	13.8	13.8	12.8	10.8	13.6
13	PRATHIKSHA R	18V2BC13	29	30	30	29	15	15	10	10	2	2	2	2	2	15	5	5	5	5	5	36	22	22	19	17	23.2
14	R M NACHIRA	18V2BC14	30	19	29	30	15	15	15	14	2	2	2	2	2	24	4.2	4.2	4.2	4.2	4.2	36.2	21.2	21.2	23.2	20.2	24.4
15	SACHANA N	18V2BC15	30	15	17	30	15	15	15	15	2	2	2	2	2	29	4.8	4.8	4.8	4.8	4.8	36.8	21.8	21.8	23.8	21.8	25.2
16	S PAVITHRA	18V2BC16	0	22	17	0	10	12	14	15	2	2	2	2	2	37	5.2	5.2	5.2	5.2	5.2	7.2	17.2	19.2	23.2	22.2	17.8
17	SHOBHA HUGAR	18V2BC17	0	30	24	0	15	15	8	9	2	2	2	2	2	15	4.6	4.6	4.6	4.6	4.6	6.6	21.6	21.6	16.6	15.6	16.4
18	TARUN K R	18V2BC18	21	17	20	21	13	14	8	9	2	2	2	2	2	21	3	3	3	3	3	26	16	19	15	14	18.4
19	HARSHITHA	18V2BC19	26	28	18	26	14	14	12	12	2	2	2	2	2	26	3.6	3.6	3.6	3.6	3.6	31.6	19.6	19.6	18.6	17.6	21.6
20	MAHIL M F	18V2BC20	27	20	8	27	10	10	10	10	2	2	2	2	2	16	3.2	3.2	3.2	3.2	3.2	32.2	15.2	15.2	17.2	15.2	19
																						27.14	16.74	12.993	12.303	10.855	
																						61.68%	64.62%	44.80%	42.43%	37.45%	

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Academic Year 2021-22

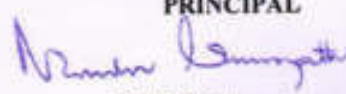
Semester-VI

Subject: Digital Communication Faculty Name: Dr.Pradeep K G M										Subject Code: 18EC61			
Course Outcomes													
CO1	Associate and apply the concepts of Bandpass sampling to well specified signals and channels.												
CO2	Analyze and compute performance parameters and transfer rates for low pass and bandpass symbol under ideal and corrupted non band limited channels.												
CO3	Test and validate symbol processing and performance parameters at the receiver under ideal and corrupted bandlimited channels.												
CO4	Demonstrate that bandpass signals subjected to corruption and distortion in a bandlimited channel can be processed at the receiver to meet specified performance criteria.												
CO5	Understand the principles of spread spectrum communications.												
CO-PO-PSO Mapping													
COs	Pos												
	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	2	2	1	1	1					1			1
CO2	2	2	2	2	1					1			1
CO3	2	2	2	2	2					1			1
CO4	2	2	2	2	1					1			2
CO5	2	2	2	1	2					1			1
Average	2	2	1.8	1.6	1.4					1			1

ATTAINMENT TABLE													
COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	79.09%	1.58	1.58	0.79	0.79	0.79					0.79		0.79
CO2	49.80%	0.99	0.99	0.99	0.99	0.49					0.49		0.49
CO3	52.45%	1.04	1.04	1.04	1.04	1.04					0.52		0.52
CO4	64.23%	1.28	1.28	1.28	1.28	0.64					0.64		1.28
CO5	57.62%	1.15	1.15	1.15	0.57	1.15					0.57		0.57
AVERAGE		1.20	1.2	1.05	0.82	0.82					0.602		0.73
TOTAL ATTAINMENT													0.91


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**Department of Electronics & Communication Engineering****Course Outcomes and CO-PO- Articulation Matrix****2015 Scheme****ACADEMIC YEAR 2021-22****Semester-VI**

Subject: Microwave & Antenna Prof. Pradeepkumar S S		Subject Code: 18EC63											
Course Outcomes													
CO1	Describe the microwave properties and its transmission media												
CO2	Describe microwave devices for several application												
CO3	Understand the basics of antenna theory												
CO4	Select antennas for specific applications												
CO5	Can able to study different types of Antenna												
CO-PO Mapping													
COs	Pos												
	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	1	2											
CO2	1	1	2	1	2								
CO3	2	2	3	3	2								
CO4	2	2	2	3	3								
CO5	2	1	2	1	2								
Average	1.6	1.6	1.8	1.6	1.8								

ATTAINMENT TABLE													
COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	74.54%	0.75	1.5										
CO2	72.07%	0.72	0.72	1.44	0.72	1.44							
CO3	72.40%	1.44	1.44	2.17	2.17	1.44							
CO4	72.7%	1.45	1.45	1.45	2.17	2.17							
CO5	73.11%	1.46	0.72	1.46	0.72	1.46							
AVERAGE		1.16	1.16	1.44	1.44	1.62							
TOTAL ATTAINMENT													1.36

Pradeepkumar S S
Course Instructor

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Pradeepkumar S S
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SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ELECTRONICS & COMMUNICATION

SEM: VI

ACADEMIC YEAR:2021-2022

SUBJECT	OPERATING SYSTEM	SUBJECT CODE	18EC641
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COURSE OUTCOME

- CO1. Understand the services provided by an operating system.
- CO2. Explain how processes are synchronized and scheduled.
- CO3 Understand different approaches of memory management and virtual memory management.
- CO4 Describe the structure and organization of the file system
- CO5. Understand interprocess communication and deadlock situations

PROGRAM OUTCOMES

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

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	Prof.AIJAZ AHAMED SHARIEF											
BRANCH	ECE			ACADEMIC YEAR				2021-2022				
COURSE	B.E	SEMESTER			VI	SECTION			A			
SUBJECT	OPERATING SYSTEM					SUBJECT CODE			18EC641			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2										1
CO2	1	3										1
CO3		3										1
CO4	1	3										1
CO5	2											1
AVERAGE												
OVERALL MAPPING OF SUBJECT												2.00

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	68.82	2.06	1.37										
CO2	69.58	0.69	2.08										
CO3	68.47		2.05										
CO4	75.39	0.75	2.26										
CO5	61.64	1.23											
AVERAGE	68.78	1.18	1.94										
FINAL ATTAINMENT LEVEL													1.56


COURSE INSTRUCTOR


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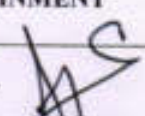

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**Department of Electronics & Communication Engineering****Course Outcomes and CO-PO- Articulation Matrix****2018 Scheme****ACADEMIC YEAR 2021-22****Semester-VI**

Subject: Programming in JAVA							Subject Code: 18CS653					
Prof. Raghavendra D												
Course Outcomes												
CO1	Learn fundamental features of object-oriented language and JAVA											
CO2	Set up Java JDK environment to create, debug and run simple Java programs.											
CO3	Learn object-oriented concepts using programming examples.											
CO4	Study the concepts of importing of packages and exception handling mechanism.											
CO5	Discuss the String Handling examples with Object-Oriented concepts											
CO-PO Mapping												
COs	Pos											
	1	2	3	4	5	6	7	8	9	10	11	12
CO1	1	2										1
CO2	1		2	3	2							1
CO3	2		3	3	3							
CO4	2	2	2	3	3							
CO5	2	1	2	1	2							
Average	1.6	1.6	1.8	1.6	1.8							

ATTAINMENT TABLE													
COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	66.38%	0.63	1.32										0.66
CO2	58.63%	0.58		1.17	1.75	1.17							0.58
CO3	61.47%			1.84	1.84	1.84							
CO4	59.34%	1.18	1.18	1.18	1.78	1.78							
CO5	57.20%	1.18	0.57	1.18	0.57	1.18							
AVERAGE		0.89	1.02	1.34	1.48	1.60							0.62
TOTAL ATTAINMENT													1.26


Course Instructor


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**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

SUBJECT	WIRELESS AND CELLULAR COMMUNICATION	SUBJECT CODE	18EC81
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COURSE OUTCOME

After studying this course, students will be able to:

CO1. Understand the Communication theory both Physical and network ing associated with GSM, CDMA& LTE 4G systems.

CO 2. Explain concepts of propagation mechanisms like Reflection, Dif fraction, Scattering in wireless channels.

CO 3. Develop a scheme for idle mode, call set up, call progress handling and call tear down in a GSM cellular network.

CO 4. Develop a scheme for idle mode, call set up, call progress handling and call tear down in a CDMA cellular network.

CO 5. Understand the Basic operations of Air interface in a LTE 4G system.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	Dr.Umesh G B											
BRANCH	ECE			ACADEMIC YEAR				2021-22				
COURSE	B.E	SEMESTER	8 TH	SECTION				ECE				
SUBJECT	WIRELESS AND CELLULAR COMMUNICATION						SUBJECT CODE		18EC81			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	1	1							2		
CO2	2	2	2							1		
CO3	3	1	2							1		
CO4	2	3	2							2		
CO5	1	1	1							1		
AVERAGE	1.8	1.6	1.6							1.4		
OVERALL MAPPING OF SUBJECT												1.6

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	56.56217	0.56	0.56	0.56							1.13		
CO2	56.54614	1.13	1.13	1.13							0.56		
CO3	55.7001	1.67	0.55	1.11							0.55		
CO4	57.73772	1.15	1.73	1.15							1.15		
CO5	59.46186	0.59	0.59	0.59							0.59		
AVERAGE	57.19%	1.02	0.91	0.90							0.79		
FINAL ATTAINMENT LEVEL													0.90

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SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION

SUBJECT	OPTICAL COMMUNICATION NETWORK	SUBJECT CODE	18EC824
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COURSE OUTCOME:

Course Outcomes or COs

After studying this course, students will be able to:

CO1: Classify and describe working of optical fiber with different modes of signal propagation.

CO2: Describe the transmission characteristics and losses in optical fiber communication.

CO3: Describe the construction and working principle of optical connectors, multiplexers and amplifiers.

CO4 : Describe the constructional features and the characteristics of optical Sources and detectors.

CO5: Illustrate the networking aspects of optical fiber and describe various standards associated with it.

PROGRAM OUTCOMES

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

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

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

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

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

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

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

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

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

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

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

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

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY											
FACULTY NAME	DR.LOKESH B S											
BRANCH	ECE			ACADEMIC YEAR				2021-22				
COURSE	B.E	SEMESTER			VIII	SECTION			ECE			
SUBJECT	OPTICAL COMMUNICATION NETWORK						SUBJECT CODE			18EC824		
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
18EC824.1	3	2	3	2	3	2	-	-	-	-	2	3
18EC824.2	3	3	3	2	3	3	-	-		-	3	2
18EC824.3	3	3	2	2	3	3					3	3
18EC824.4	3	3	3	2	3	3					3	3
18EC824.5	2	3	3	2	3	3					3	3
Avg. Mapping	2.8	2.8	2.8	2	3	2.8					2.8	2.8
OVERALL MAPPING OF SUBJECT												2.7

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	77.52	2.32	1.55	2.32	1.55	2.32	1.55	-	-	-	-	1.55	2.32
CO2	79.20	2.37	2.37	2.44	1.58	2.37	2.37	-	-	-	-	2.37	1.58
CO3	73.69	2.21	2.21	2.09	1.47	2.21	2.21					2.21	2.21
CO4	74.20	2.26	2.26	2.26	1.48	2.26	2.26					2.26	2.26
CO5	72.28	1.14	2.16	2.16	1.44	2.16	2.16					2.16	2.16
AVERAGE	75.37	2.06	2.11	2.28	1.50	2.26	2.11					2.11	2.10
FINAL ATTAINMENT LEVEL													2.06

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Academic Year		Faculty Name: Dr Laksh B S																																																																																																																																																																																																																																																																			
Sl. No.	SEM	SEM I			SEM II			Total strength			Subject			OPTICAL COMMUNICATION NETWORK			Subject Code			ISECR24			Total Cos ATTAINMENT			% of International CO			SIS Tot																																																																																																																																																																																																																																								
		IA TEST	IIA TEST	TOTAL	IA TEST	IIA TEST	TOTAL	CO1	CO2	CO3	CO1	CO2	CO3	CO4	CO5	CO6+12	CO7	CO8	CO9	CO10	CO11	CO12	CO13	CO14	CO15	CO16	CO17	CO18	CO19	CO20	CO21	CO22	CO23	CO24	CO25	CO26	CO27																																																																																																																																																																																																																																
1	19V19EC01	10	10	20	10	10	20	10	10	20	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2																																																																																																																																																																																																																															
2	19V19EC02	15	15	30	15	15	30	15	15	30	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2																																																																																																																																																																																																																															
3	19V19EC03	12	12	24	12	12	24	12	12	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2																																																																																																																																																																																																																															
4	19V19EC04	12	12	24	12	12	24	12	12	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2																																																																																																																																																																																																																															
5	19V19EC05	11	11	22	11	11	22	11	11	22	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2																																																																																																																																																																																																																															
6	19V19EC06	18	18	36	18	18	36	18	18	36	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2																																																																																																																																																																																																																															
7	19V19EC07	10	10	20	10	10	20	10	10	20	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2																																																																																																																																																																																																																															
8	19V19EC08	13	13	26	13	13	26	13	13	26	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2																																																																																																																																																																																																																															
9	19V19EC09	15	15	30	15	15	30	15	15	30	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2																																																																																																																																																																																																																															
10	19V19EC10	15	15	30	15	15	30	15	15	30	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2																																																																																																																																																																																																																															
11	19V19EC11	15	15	30	15	15	30	15	15	30	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2																																																																																																																																																																																																																															
12	19V19EC12	15	15	30	15	15	30	15	15	30	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2																																																																																																																																																																																																																															
13	19V19EC13	15	15	30	15	15	30	15	15	30	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2																																																																																																																																																																																																																															
14	19V19EC14	15	15	30	15	15	30	15	15	30	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2																																																																																																																																																																																																																															
15	19V19EC15	12	12	24	12	12	24	12	12	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2																																																																																																																																																																																																																															
16	19V19EC16	15	15	30	15	15	30	15	15	30	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2																																																																																																																																																																																																																															
17	19V19EC17	15	15	30	15	15	30	15	15	30	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2																																																																																																																																																																																																																															
18	19V19EC18	14	14	28	14	14	28	14	14	28	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2																																																																																																																																																																																																																															
19	19V19EC19	12	12	24	12	12	24	12	12	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2																																																																																																																																																																																																																															
20	19V19EC20	10	10	20	10	10	20	10	10	20	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2																																																																																																																																																																																																																															
21	19V19EC21	15	15	30	15	15	30	15	15	30	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2																																																																																																																																																																																																																															
22	19V19EC22	15	15	30	15	15	30	15	15	30	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2																																																																																																																																																																																																																															
23	19V19EC23	15	15	30	15	15	30	15	15	30	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2																																																																																																																																																																																																																															
24	19V19EC24	9	9	18	9	9	18	9	9	18	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2																																																																																																																																																																																																																															
25	19V19EC25	13	13	26	13	13	26	13	13	26	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2																																																																																																																																																																																																																															
26	19V19EC26	9	9	18	9	9	18	9	9	18	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2																																																																																																																																																																																																																															
27	19V19EC27	15	15	30	15	15	30	15	15	30	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2																																																																																																																																																																																																																															
		22.4815																										24.85185																										21.1704																										21.5185																										20.965																										22.52225																										28.20875																										25.6995																										24.20175																										22.38685																									


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**Department of Electronics & Communication Engineering****Course Outcomes and CO-PO- Articulation Matrix****2021 Scheme****ACADEMIC YEAR 2021-22****Semester-I**

Subject: Basic Electronics Dr.Umesha G B												Subject Code: 21ELN14	
Course Outcomes													
CO1	Operation of Semiconductor diode, Zener diode and Special purpose diodes and their applications.												
CO2	Biasing circuits for transistor (BJT) as an amplifier.												
CO3	Study of linear Op-amps and its applications.												
CO4	Logic circuits and their optimization.												
CO5	Principles of Transducers and Communication.												
CO-PO Mapping													
COs	Pos												
	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	2		1										1
CO2	3	3	2		2								1
CO3	3	3	2		2								1
CO4	3	3	2		2								1
CO5	3												
Average	2.8	3	1.75		2								1

ATTAINMENT TABLE

COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	68%	1.36		0.68									0.68
CO2	66%	1.98	1.98	1.32			1.32						0.66
CO3	58%	1.74	1.74	1.16			1.16						0.58
CO4	60%	1.80	1.80	1.20			1.20						0.60
CO5	52%	1.56											
AVERAGE		1.68	1.84	1.09			1.22						0.63
TOTAL ATTAINMENT													1.29

Umesha
Faculty

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Academy Code SNU/IV	2021-22		SEM I		SEM II		Total strength		34		Subject		Basic Elements				Subject Code				INEL/11				Faculty of Learning S.B.			
	IA TEST (SUM)		IA TEST SUM		IA TEST SUM		IA TEST SUM		ASSIGNMENT (10%)		ASSIGNMENT (10%)		SEE MARKS				Total Coe ATTAINMENT				% of marks							
	ISS	CO1	CO2	CO3	CO4	CO1	CO2	CO3	CO4	CO1	CO2	CO3	CO4	CO1	CO2	CO3	CO4	CO1	CO2	CO3	CO4	CO1	CO2	CO3	CO4	CO1	CO2	CO3
15V2000001	8	8	20	20	38	38	20	20	17	17	90	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
15V2000002	2	2	23	23	7	20	17	17	19	0	83	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
15V2000003	18	18	25	25	16	20	18	18	20	6	72	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
15V2000004	1	1	11	11	11	8	20	8	20	6	38	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
15V2000005	2	2	18	18	3	10	20	13	8	20	33	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
15V2000006	1	1	23	23	2	18	18	20	18	6	80	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
15V2000007	3	3	5	5	29	20	20	20	20	19	88	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
15V2000008	26	26	19	19	25	20	20	20	20	100	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
15V2000009	1	1	0	0	11	8	0	13	20	19	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
15V2000010	5	5	0	0	34	4	0	0	0	9	13	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
15V2000011	18	18	0	0	16	20	20	14	20	14	88	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
15V2000012	4	4	18	18	13	0	0	7	20	6	33	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
15V2000013	5	5	15	15	24	4	0	0	0	8	13	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
15V2000014	10	12	7	7	13	14	20	20	19	4	79	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
15V2000015	30	30	5	5	30	20	20	20	20	100	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
15V2000016	28	28	5	5	23	20	20	20	20	100	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
15V2000017	30	30	13	13	28	20	20	20	20	100	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
15V2000018	5	5	3	3	24	4	0	0	0	9	13	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
15V2000019	10	10	2	2	17	20	20	20	14	13	87	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
15V210C400	23	23	16	16	15	20	13	4	20	8	65	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
15V2000001	25	25	1	1	8	20	20	20	9	0	69	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
15V2000002	11	11	2	2	10	5	5	5	13	37	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
15V2000003	18	18	1	1	18	20	10	20	9	69	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
15V2000004	23	23	3	3	25	10	10	20	10	13	73	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
15V2000005	5	5	28	28	10	10	10	10	3	43	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
15V2000006	19	19	1	1	22	20	20	20	13	92	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
15V2000007	0	0	5	5	3	20	20	19	0	79	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
15V2000008	0	0	18	18	11	10	19	10	10	10	58	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
15V2000009	0	0	4	4	13	13	20	10	10	10	63	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
15V2000010	19	19	5	5	14	20	20	20	20	3	83	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
15V2000011	15	15	12	12	13	20	20	20	20	6	86	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
15V2000012	7	7	30	30	12	10	20	20	10	0	60	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
15V2000013	5	5	28	28	12	5	5	5	20	5	40	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
15V2000014	5	5	30	30	21	10	10	20	9	58	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

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Total	58,823	58,888	57,783	50,208	42,184
	58	64	58	60	57

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**Department of Electronics & Communication Engineering****Course Outcomes and CO-PO- Articulation Matrix****2021 Scheme**
ACADEMIC YEAR 2021-22**Semester-II**

Subject: Basic Electronics												Subject Code: 21ELN24	
Dr.Pradeep K G M													
Course Outcomes													
CO1	Operation of Semiconductor diode, Zener diode and Special purpose diodes and their applications.												
CO2	Biasing circuits for transistor (BJT) as an amplifier.												
CO3	Study of linear Op-amps and its applications.												
CO4	Logic circuits and their optimization.												
CO5	Principles of Transducers and Communication.												
CO-PO Mapping													
COs	Pos												
	1	2	3	4	5	6	7	8	9	10	11	12	
CO1	2		1										1
CO2	3	3	2		2								1
CO3	3	3	2		2								1
CO4	3	3	2		2								1
CO5	3												
Average	2.8	3	1.75		2								1

ATTAINMENT TABLE													
COs	AVG	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	68%	1.36		0.68									0.68
CO2	66%	1.98	1.98	1.32			1.32						0.66
CO3	58%	1.74	1.74	1.16			1.16						0.58
CO4	60%	1.8	1.8	1.2			1.2						0.60
CO5	52%	1.56											
AVERAGE		1.68	1.84	1.09			1.22						0.63
TOTAL ATTAINMENT													1.29

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15V20C5003	20	20	25	8	6	12	20	20	20	20	18	55	2	2	2	2	2	6.2	6.2	6.2	6.2	6.2	28.2	28.2	34.2	34.2	41.2	42.94	42.94	48.13	48.13	54.39	54.39	51	4.2	
15V20C5004	20	20	30	15	18	26	20	20	20	20	18	61	2	2	2	2	2	7.8	7.8	7.8	7.8	7.8	29.8	29.8	42.8	42.8	42.8	47.65	47.65	59.21	59.21	66.86	66.86	58	7.3	
15V20V3001	20	20	2	2	15	17	20	20	20	20	6	60	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	25.8	25.8	28.8	28.8	41.8	32.8	39.82	39.82	55.33	55.33	77.41	77.41	24	4.3
15V20V3002	15	20	15	15	15	30	18	20	20	20	20	65	2	2	2	2	2	7.8	7.8	7.8	7.8	7.8	22.8	29.8	44.8	44.8	49.8	67.06	67.06	87.55	87.55	82.99	82.99	77.81	5.8	
15V20V3003	8	20	28	15	15	30	8	20	20	20	20	98	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	13.2	27.2	42.2	42.2	47.2	38.82	38.82	80	78.15	78.15	75.75	26	5.2	
15V20V3004	20	10	1	1	10	11	20	10	20	20	3	72	2	2	2	2	2	1	1	1	1	1	25	15	24	24	16	67.65	39.24	44.44	44.44	51.11	25	5	3	
15V20V3005	15	20	8	1	1	2	15	20	20	20	20	93	2	2	2	2	2	1.8	1.8	1.8	1.8	1.8	16.8	23.8	24.8	24.8	43.6	48.82	69.41	43.38	43.38	68.13	8	1.8		
15V20V3006	20	20	20	1	11	12	20	20	20	20	8	86	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	16.2	26.2	27.2	27.2	32.2	77.06	77.06	90.37	88.89	90.31	21	4.2		
15V20V3007	18	10	15	12	15	25	18	10	10	20	20	73	2	2	2	2	2	0.4	0.4	0.4	0.4	0.4	16.4	12.4	24.4	35.4	32.4	45.29	36.47	49.19	85.56	50.63	2	0.4		
15V20V3008	15	20	15	15	15	30	15	20	20	20	20	93	2	2	2	2	2	2.4	2.4	2.4	2.4	2.4	17.4	24.4	39.4	39.4	44.4	51.18	71.76	72.96	72.96	88.38	12	2.4		
15V20V3009	20	20	20	15	15	30	20	20	20	20	20	100	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	27.2	27.2	42.2	42.2	47.2	80	78.15	78.15	75.75	26	5.2			
15V21ME400	4	3	0	10	2	12	4	5	8	0	0	14	2	2	2	2	2	8.8	8.8	8.8	8.8	8.8	14.8	15.8	25.8	12.8	15.8	42.94	45.88	47.41	23.55	24.39	45	8.8		
15V21ME401	20	20	8	15	15	30	20	20	20	20	20	100	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	26.2	26.2	41.2	41.2	46.2	77.06	77.06	76.9	76.9	72.19	21	4.2		
15V21ME402	20	18	3	15	1	30	20	18	20	20	20	83	2	2	2	2	2	7.3	7.3	7.3	7.3	7.3	29.3	22.3	44.3	30.2	42.3	85.88	65.29	81.85	55.93	65.94	36	7.3		

Total 68.01 67.68 38.01 63.4 51.8
 km 68 38 60 52



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