

Malineni Lakshmaiah Women's Engineering College

(Approved by AICTE & Affiliated to JNTUK, Kakinada)
Pulladigunta (V), Vatticherukuru(M), Guntur-522017 (ISO 9001: 2015 Certified)

DEPARTMENT OF SCIENCE AND HUMANITIES

SEM-II

A.Y. 18-19

C113 (APPLIED CHEMISTRY)

C113	APPLIED CHEMISTRY	3	0	0
C113.1	Discuss the structure properties and applications of polymers			
C113.2	Specify the quality and composition of fuels	-		
C113.3	Explain the mechanism of corrosion and apply few corrosion control methods			
C113.4	Illustrate the importance of advanced materials in engineering			
C113.5	Simulate the non conventional energy sources to produce electric power			- >

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C113.1	3	2	2	I	-		-	-		_	-	1012
C113.2	2	3	2	-	(-)	-	-	-	_	_		-
C113.3	3	2	2	-	-	+	-	-				
C113.4	2	2	2	-	-			_	_			-
C113.5	2	3	2	-	-	-	2	2	_	_	-	
C113	2.4	2.4	2		-				_			

1. Suliah SIGNATURE OF THE FACULTY

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PRINCIPAL MALINENI LAKSHMAIAH WOMEN'S ENGINEERING COLLEGE PULLADIGUNTA, GUNTUR-17.



Malineni Lakshmaiah Women's Engineering College

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Pulladigunta (V), Vatticherukuru(M), Guntur-522017 (ISO 9001: 2015 Certified)

DEPARTMENT OF SCIENCE AND HUMANITIES

SEM-II

A.Y. 20-21

C109 (MATHEMATICS-II)

C109	MATHEMATICS -II	3	0	0
C109.1	Determine the rank of a matrix and solve the system of linear algebraic equations.			
C109.2	Determine the eigen values and eigen vectors of a matrix and discuss the nature of Quadratic forms.			
C109.3	Evaluate approximating the roots of algebraic and transcendental equations by iterative methods.			
C109.4	Apply Newton's forward ,backward and Lagranges for equal and unequal intervals.			
C109.5	Evaluate the real definite integrals and solve the first order ordinary differential equations by numerical methods.			

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C109.1	3	1	-	-	-	-	-	-	=	_	2	-
C109.2	3	1	-	-	-	-	-		-	-	-	-
C109.3	2	1	-	-	-	-	-	-	-	-	=	-
C109.4	1	1	ia .	-	-	-	-	-	u	-	-	
C109.5	1	1		-	-	-	-		-	-	-	-
C109	2	1	-	-		-	40	-	4	<u>.</u>	V ₂	

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Dept. HOScience & Humanities

Makineni Lakshmaiah Women's Engineering Collegy Pulladigunta, GUNTUR-522017

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DEPARTMENT OF SCIENCE AND HUMANITIES

SEM-II

A.Y. 19-20

C114(BASIC ELECTRICAL ENGINEERING)

C114	BASIC ELECTRICAL ENGINEERING	3	0	0
C114.1	Understand the principle of operation, construction and details of DC generators			
C114.2	Understand the principle of operation, construction and details of DC motors			
C114.3	Learn the principle of operation, construction and performance of transformers			
C114.4	Study the principle of operation, construction and details of Synchronous machines			
C114.5	Learn the principle of operation, construction and performance of 3-phase Induction motors			

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
	2	-	-	-	-	-	-	-	-	-	-	
C114.2	2	-	-	-			-	-	-	-		-
C114.3	2	-		-	-	-	_	-	-			_
C114.4	2	-	-	-	-	-	-	_	-21		-	
C114.5	2	-	-	-	-	_	-	-	_		0	-
C114	2	-	-		-		_	_	_		27/	

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> MALINENI LAKSHMAIAH WOMEN'S ENGINEERING COLLEGE

PULLADIGUNTA, GUNTUR-17.



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DEPARTMENT OF SCIENCE AND HUMANITIES

SEM-I

C101(ENGLISH)

A.Y. 19-20

C101	ENGLISH	3	0 0
C101.1	Understanding how to communicate with native speakers of English.		
C101.2	Questioning and answering skills are improved		
C101.3	Reading and writing on an idea or text		
C101.4	Improving paragraph writing skills		
C101.5	Recalling forming sentences with proper grammar and correct word forms		

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101.1	-	-		-	-	-			-	2		-
C101.2	-	-		-	-	-	_	-	-	1	-	-
C101.3		+	-	-	-	-	-		-	2	-	2
C101.4	-	-	.	-	-	-	-		-	3	-	-
C101.5	-	*	+	-	1	2		-	-	1	-	-
C101			-		-	-		-		1.8	_	2

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DEPARTMENT OF SCIENCE AND HUMANITIES

SEM-I

A.Y. 18-19

C104 (APPLIED PHYSICS)

C104	APPLIED PHYSICS	4	0	0
C104.1	Explain the need of coherent sources and the condition s for sustained interference.	+		
C104.2	Analyze different properties of light		_	
C104.3	Apply the concepts to learn the types of lasers	-	_	
C104.4	Illustrate the physical significance of wave functions	-		_
C104.5	Interpret the direct and indirect band gap semi conductors	+-		

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	POS	POO	PO10	POIL	DOLL
C104.1	3	2	1		2			100	109	1010	POII	PO12
C104.2	2	3	1	_		-		-	-	-	-	-
C104.3	3	2	1	2		-	-	-	-	•	1	•
C104.4	3	2	1		_		-	-	-	-	-	•
C104.5	2	3	1	-			•	-	-	•	•	•
C104	2.6	2.4	1			_	-	-	•	7	-	•
C104	2.6	2.4	1	-	-	-	-	-	-	-		-

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Malinem Lakshmod Horronien's Ling College

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PRINCIPAL

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ESTD: 2008	DE	PARTMENT OF ELECTROMOGRAM	
Course Code	1	C206	
Course Name	:	Random Variables & Stochastic Processes	
Academic Year	:	2017-2018	*
Semester	:	1 .	
Regulation	:	R16	*
Name of the Faculty	;	K.HARIBABU	

COURSE ASSESSMENT TOOLS

COURSE	SSESSMENT T	DIRECT ASS	SESSME	NT				INDIRECT ASSESSMENT			
	CIE		SEE	% TH	ROUGH SEE	I CIE &		% THROUGH DA & IDA		TOTAL	
MID semester subjective type I &	to toma 1 % objective type 1 /ASSIGN		Assignment 1 & II		CIE SEE		TOTAL	THROUGH CO FEEDBACK	DA	IDA	DA + IDA
15M	10M	5M	30M	70M	30%	70%	100%	100%	80%	20%	100%

COURSE OUTCOMES:

After the completion of the course, the student will be able to

After the	completion of the course, the student will be able to
C206.1	Interpret the concepts of random variables and stochastic processes in real time applications
C206 2	Use the priniple definitions, fundamental theorem and important relations in statistics
C20C 2	Describe about significance of Joint Distribution function, Joint Denstity function and Characteristic function
C206.4	Explain the concept of stationary and widesense stationary process and their significance and evaluate its condition
C206.5	Explain the concept of power density spectrum and cross power density spectrum of a random process
C206.6	Analyze linear systems with theory of stochastic processes
GEOO.	(COa) with Program Outcomes (POs)

Course Articulation Matrix: Mapping Course Outcomes (COs) with Program Outcomes (POs)

COs/	POL	PO2	PO3	PO4	PO5	PO6	PO7	PO8	P()9	PO10	PO11	PO12	PSO1	PSO2
POs							-		-	-			2	
C206.1	3	2	2	2						-			1 -	-
C206.2	3	3	2	2										-
C206.3	3	3	2	2									2	
C206.4	2	2	2	2									2	-
C206.5	2	1	, 1	1									2	-
C206.6	3	2	2	2									2	-
AVG	2.6667	2.16667	1.8333	1.8333									2	

Program Outcomes & Program Specific Outcomes

Progra	im Outcomes & Program Specific Outcomes
POI	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching
PO3	Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural societal and environmental considerations.
PO4	Use research-based knowledge and research methods including design of experiments, analysis, and interpretation of
PSO1	Analyze real time problems and provide solutions in the field of advanced communications, signal, and image processing applications

Questions fall under corresponding CO in each Assessment Tool: DLLEGE

Question.			PULLADIGUI	TA, GENTU			
CO#	MID 1	· MID 2	QUIZI	(ASSNI)	QUIZ2	(ASSN2)	ODL 1
C206.1	IA.IB		APPLICABLE	APPLICABLE			APPLICABLE
C206.2	2A.2B		APPLICABLE	APPLICABLE			APPLICABLE
	Q3		APPLICABLE				APPLICABLE
C206.3	Q3	1A,2A,2B	1		APPLICABLE	APPLICABLE	APPLICABLE
C206.4				-	APPLICABLE	APPLICABLE	APPLICABLE
C206.5		3A,3B	-1	1		,	1

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Course Code	:	C213
Course Name	:	ANALOG COMMUNICATIONS
Academic Year	:	2017-18
Semester	:	11-11
Regulation	.:	R16
Name of the Faculty	:	K.GOUTHAM!

COURSE ASSESSMENT TOOLS

	I	DIRECT ASS	ESSMEN	T				INDIRECT ASSESSMENT			
	CIE			SEE	% TH	ROUGF SEE	I CIE &		% THR	OUGH	TOTAL
MID semester - subjective type I & II	MID semester objective type I &II	Assignment [& []	TOTAL	Subjective type-I	CIE	SEE	TOTAL	THROUGH CO FEEDBACK	DA	IDA	DA + IDA
15M	10M	5M	30M	70M	30%	70%	100%	100%	80%	20%	100%

COURSE OUTCOMES:

.fter the completion of the course, the student will be able to

C213.1	Demonstrate the need for modulation and also the basic blocks and circuits present in a communication system, square law and switching modulator and demodulators
C213.2	Distinguish various analog modulation techniques like DSB, SSB and VSB with their generation, detection methods and also system performance in presence of Noise
C213.3	Analyze Frequency modulators and Demodulators with their spectrum, average power, band width, and also with AM
C213.4	Sketch the AM, FM radio transmitter and receiver circuits with the role of AGC /AFC
C213.5	Discriminate different types of pulse analog modulation Techniques such as PAM,PWM and PPM with their modulation and Demodulation methods

Course Articulation Matrix: Mapping Course Outcomes (COs) with Program Outcomes (POs)

			T		1		1							
POs	POI	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	POIO	POII	PO12	PSOI	PSO2
C213.1	1	2	3	2	1	2							2	
C213.2	1	2	3	3	2	1						+	2	
C213.3	1	3	3	2	1	1							2	
C213.4	2	2	3	2	2	2							÷ 2	
C213.5	2	3	3	3	2	2		,					3	
AVG	1.4	2.4	3	2.4	1.6	1.6							2.2	

Program Outcomes & Program Specific Outcomes

1 rogi	am Outcomes & Frogram Specific Outcomes
POI	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	Problem analysis: Identify, formulate, review 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: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO4	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
PO5	Create, select and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
PO6	Apply reasoning informed by contextual knowledge to assess societal, health, safety egal and cultural issues and the consequent responsibilities relevant to professional engineering practice.
PSO1	Analyze real time problems and provide solutions in the field of advanced communications, signah and image processing applications.



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

DEPARTMENT OF ELECTRONICS AND COMMONICATION
: R1631043/C304
: Digital IC Applications
: 2019-20
: I SEM
: R16
: VENKATARAO T

COURSE A	ASSESSMENT	DIRECT AS	SESSMEN	Т				INDIRECT ASSESSMENT			
	CIĘ			SEE	%TH	ROUGH SEE	CIE &		% THR		TOTAL
MID semester subjective type I &	MID semester objective type I	Assignment & II	TOTAL	Subjective type-l	CIE	SEE	TOTAL	THROUGH CO FEEDBACK	DA	IDA	DA + IDA
11	0011	5M	30M	70M	30%	70%	100%	100%	80%	20%	100%

COURSE OUTCOMES:

iter the completion of the course, the student will be able to

	completion of the course, the student will be able to Analyze the commercially available digital integrated circuit families.
2202.2	Analyze the commercially available digital integrated circuit the knowledge of hardware description language (VHDL) concept to model the any digital circuit
(202.2	Illustrate combinational and sequential logic circuits using different ics.
0202.4	Develop and synthesis the HDL code for combinational and sequential circuits.
2303.4	Test for the functionality of combinational and sequential circuits using EDA tools.
2303.5	Test for the functionality of combinational and office for the functional and office for the fun

Course Articulation Matrix: Mapping Course Outcomes (COs) with Program Outcomes (POs)

COs/	POL	PO2	PO3	P()4	PO5	PO6	PO7	PO8	PO9	PO10	POH	PO12	PSO1	PSO2
POs	1111	1 172			1				-	1				2
C303.1	2	3	3				-		-	-				3
C303.2	3	2	3	3			-		-	-			-	2
C303.3	3	3	3	3			-	-	-	-			+	2
C303.4	3	3	3	3			-	-	-	-		1	-	3
C303.5	2	2	3	3	3		-	_	-	-		-	-	2.4
AVG	2.6	2.6	3	3	3							1		2.1

Program Outcomes & Program Specific Outcomes

rogra	m Outcomes & Program Specific Outcomes
01	m Outcomes & Program Specific Outcomes Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems
202	engineering problems Identity, formulates, research literature and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences
PO3	Design solutions for complex engineering problems and design system components or processes that meet specified needs with
P()4	Use research-based knowledge and research methods including design of experiments, analysis, and the property of the conclusions.
PO5	Create, select and apply appropriate techniques, resources, and modern engineering and Create includes metalang pro-
PO12	Recognize the need for and have the preparation and ability to Engage in independent data. broadest context of Technological Change.
PSO2	Analyze and develop the components of a system or sub-system using the concepts of embedded systems and VLSI technology Analyze and develop the components of a system or sub-system using the concepts of embedded systems and VLSI technology PRINTED AND AND AND AND AND AND AND AND AND AN

Questions fall under corresponding CO in each Assessment Tool:

CO#	MID I	MID 2	QUIZI	(ASSNI)	QUIZZILL	AD(ASSN2)	OIX, C.
C303.1	M1.Q1A (3M) M1-Q1B (2M)		applicable	appliçable			applicable
	M1-Q2A (3M) M1-Q2B (2M) M1-Q3 (5M)		applicable	applicable			applicable



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Course Code	:	C311	
Course Name	:	MICROWAVE ENGINEERING	
Academic Year	:	2018-19	
Semester	:	[[]-][
Regulation	:	R16	
Name of the Faculty	:	K. RAVI KUMAR	

COURSE ASSESSMENT TOOLS

00011001	[DIRECT ASS	ESSMEN	T				INDIRECT ASSESSMENT			
	CIE			SEE	% THI	ROUGH SEE	I CIE &	1	% THR DA &		TOTAL
MID semester subjective type I &	MID semester objective type I &II	Assignment 1 & II	TOTAL	Subjective type-l	CIE	SEE	TOTAL	THROUGH CO FEEDBACK	DA	IDA	DA + IDA
15M	10M	5M	30M	70M	30%	70%	100%	100%	80%	20%	100%

COURSE OUTCOMES:

After the completion of the course, the student will be able to

THE THE	completion of the vector, the statement and
C311.1	Discuss different modes in waveguide structures
C311.2	Hustrate Rectangular and Circular Waveguides
C311.3	IllustrateRectangular and Circular Resonators
C311.4	Calculate S-matrix for various waveguide components and Develop the splitting of the microwave energy in a desired direction
C311.5	Distinguish between Microwave tubes and Solid State Devices
C311.6	Calculate various microwave parameters

Course Articulation Matrix: Mapping Course Outcomes (COs) with Program Outcomes (POs)

COs/ POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	POIL	PO12	PSOI	PSO2
C311.1	2	3	3									•	3	
C311.1	3	3	3				1	4					3	
C311.3	3	3	3				1					2	3	
C311.4	3	3	3									2	3	
C311.5	3	3	3									2	3	
C311.6	3	3	3									2	3	-
AVG	3	3	3									2	3	

Program Outcomes & Program Specific Outcomes

POI	Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems
PO2	Identity, formulates, research literature and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences
PO3	Design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations
PO12	Recognize the need for and have the preparation and ability to Engage in independent and lifelong learning in the broadest
PSO1	Analyze real time problems and provide solutions in the field of advanced communications, signal, and image processing applications

Ouestion	s fall under	corresponding	CO in each	Assesşmen	t Tool: ##	PRINCIPAL	
			C	IE	WOMEN'S	MAISEE	
CO#	MID I	MID 2	QUIZI	(ASSN1)	QUIZZ-A	PIGUASS 27 NIN	G COLLEGE
C311.1	QIA		applicable	applicable	applicable	applicable	" UR-17,
C311.2	QIB		applicable	applicable	applicable	applicable	
C311.3	Q2A. Q2B		applicable	applicable	applicable	applicable	
C311.4		Q2A	applicable	applicable	applicable	applicable	
C311.5	Q3A,Q3B	Q1A,Q1B,Q3A	applicable	applicable	applicable	applicable	



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Course Code	:	C405	
Course Name	:	Electronic Switching Systems	
Academic Year	:	2019-2020	
Semester	:	ISEM	
Regulation	, :	R16	
Name of the Faculty	1	G.MOUNICA	

COURSE ASSESSMENT TOOLS

	[DIRECT ASS	ESSME	NT				INDIRECT ASSESSMENT		2011	
	CIE	, SEE	% TH	ROUGH SEE	I CIE &	•	% THR DA &		TOTAL		
MID semester subjective type I & II	MID semester objective type 1 &II	Assignment 1 & II	TOTAL	Subjective type-l	CIE	SEE	TOTAL	THROUGH CO FEEDBACK	DA	IDA	DA + IDA
15M	10M	5M	30M	70M	30%	70%	100%	100%	80%	20%	100%

COURSE OUTCOMES:

After the completion of the course, the student will be able to

C405.1	Evaluate the time and space parameters of a switched signal
C405.2	Describe the digital signal path in time and space, between two terminals
C405.3	Evaluate the inherent facilities within the system to test some of the SLIC, CODEC and digital switch functions.
C405.4	Investigate the traffic capacity of the system.
C405.5	Evaluate methods of collecting traffic data.
C405.6	Evaluate the method of interconnecting two separate digital switches.

Course Articulation Matrix: Mapping Course Outcomes (COs) with Program Outcomes (POs)

COs/	POI	PO2	PO3	PO4	PO5	PO6	PO7	PO8	P()9	POIO	POIL	PO12	PSO1	PSO2
POs	101	102	103	104	1 (73	100			1.07					
C405.1	2	2	1	1										1
C405.2	2	3	3	3				*						1
C405.3	2	3	3	3										1
C405.4	3	3	3	3										2
C405.5	3	3	3	3										2
C405.6	3	3	3	3								3		2
avg	2.5	2.8333	2.667	2.667								3		1.5

Program Outcomes & Program Specific Outcomes

POI	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	Problem analysis: Identify, formulate, review 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: Design solutions for complex engineering problems; and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO4	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
PO12	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.
PSO1	Analyze real time problems and provide solutions in the field of advanced communications, signal, and image processing applications.



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Course Code	:	C410
Course Name	1:	ELECTRONIC MEASUREMENT AND INSTRUMENTATION
Academic Year	:	2019-2020
Semester	:	II SEM
Regulation	:	R16
Name of the Faculty	:	K.RAJITHA

COURSE ASSESSMENT TOOLS

00011021	1332301112.11	DIRECT AS	SESSME	ENT				INDIRECT ASSESSMENT			
	SEĘ	% THROUGH CIE & SEE				% THR DA &	TOTAL				
MID semester subjective type I &	MID semester objective type I &II	Assignment TOTA		Subjective type-	CIE	SEE TOTAL		THROUGH CO FEEDBACK	DA IDA		DA + IDA
15M	10M	5M	30M	70M	30%	70%	100%	100%	80%	20%	100%

COURSE OUTCOMES:

after the completion of the course, the student will be able to

ther the	completion of the course, the student will be able to
C410.1	Apply the acquired knowledge of measuring instrumentations to measure in a complx design
C410.2	Analyze the available oscilloscopes to measure of various signal
	identify the appropriate transducers among available transducer to design project
	analyze various bridge circuits for the measurement of physical quantities to minimize errors in measurements
C410.5	inspect data acquisition systems and to apply for instrumentation in industrial

Course Articulation Matrix: Mapping Course Outcomes (COs) with Program Outcomes (POs)

COs/ POs	POI	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSOI	PSO2
C410.1	2	3	3					7						1
C410.2	3	2	3	3										1
C410.3	3	3	3	3										1
C410.4	3	3	3	3										1
C410.5	2	2	3											-
AVG	2.6	2.6	3	3										1

Program Outcomes & Program Specific Outcomes

Togran	il Outcomes & Frogram Specime outcomes
PO1:	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2:	Problem analysis: Identify, formulate, review 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: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO4:	Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PSO1:	Analyze real time problems and provide solutions in the field of advanced communications, signal, and image processing applications.

Questions fall under corresponding CO in each Assessment Tool:

			C	CIE	MALINE	OLLEGE	
CO#	MID I	MID 2	QUIZI	(ASSNI)W	ON OUIZZ	NI LAKSHINA CHIEFING C LIKASSN2JNT	UR-1955
C410.1	1A,1B		APPLICABLE	APPLICABLE	1.0		APPLICABLE
C410.2	2A.2B		APPLICABLE	APPLICABLE			APPLICABLE
C410.3	3A.3B		APPLICABLE	APPLICABLE			APPLICABLE
C410.4		Q1			APPLICABLE	APPLICABLE	APPLICABLE
C410.5		2A,2B,Q3			APPLICABLE	APPLICABLE	APPLICABLE



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CO'S AND PO'S MAPPING

2019-2020

SEM-III

A.Y. 19-20 C-301(STRATEGIC MANAGEMENT)

C-301	STRATEGIC MANAGEMENT	3	0 0
C-301.1	Understand the concept of strategic management and		
	develop vision, mission and objectives of the organization.		
C-301.2	Know the industry analysis and develop techniques of		
	competitive analysis	ļ	
C-301.3	Appraise strategic leadership styles and actions.		
C-301.4	Formulate effective strategies in business.		
C-301.5	Develop a frame work for the implementation strategies in		
	business.		

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C-301.1	-	-	-	-	-	2	-	-	-	-	-	-
C-301.2	-	-	-	-	-		-	-	2	-	-	_
C-301.3	-	-	-	-	-	-	-	-	2	-	-	-
C-301.4	-	-	-	-	-	-	-	-	3	-	-	_
C-301.5	-	-	-	-	-	-	-	-	-	-	2	_
C-301	-	-	-	-	-	2	-	-	2.1	-	-	-

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DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

CO'S AND PO'S MAPPING

2019-2020

SEM-IV

A.Y. 19-20 C-402(ENTREPRENEURSHIP DEVELOPMENT)

C-301	STRATEGIC MANAGEMENT	3	0 0
C-402.1	Understand the concepts, role and importance of entrepreneurship.		
C-402.2	Outline women entrepreneurship and qualities.		
C-402.3	Define entrepreneurship development programs in India and contents for training for entrepreneurial competencies.		
C-402.4	Create appropriate business models and develop well- presented business plan that is feasible for the student.		
C-402.5	Understand the concept of small and micro enterprises.		1

CO/PO	DO1	DO2	DO2	DO4	DO.	DOC	DOS	DOO	DOO	7010		
CO/PO	roi	PUZ	PU3	PO4	PU5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C-402.1	-	-	-	-	-		1	1	-	-	-	_
C-402.2	-	-	-	-	-	-	-	-		-	_	_
C-402.3	-	-	-	-	-	-	-	-		2	_	_
C-402.4	-	_	-	-	-	_	1	-		1		1
C-402.5	-	-	_	-	-	-	-	_	_	1		_
	-	_	-	_	_		1	_		1.3		1

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Department of Computer Science and Engineering

2017-2018

DATA STRUCTURES THROUGH C++

COURSE: DATA STRUCTURES THROUGH C++	DEGREE: B.Tech					
COURSE CODE: R1621055	YEAR: II SEMESTER: I					
REGULATION: R16	COURSE TYPE: REGULAR					
ACADEMIC YEAR : 2017-2018	CREDITS: 3					

After the completion of course, the student will be able to:

CO No.	Course Outcome Statement	Taxonomy Level
C205.1	Illustrate the ADTs of Polynomial, Sparse matrix, transposing of matrix and matrix multiplications by using arrays.	Understand
C205.2	Perform various operations of stack and queue by using arrays.	Apply
C205.3	Implement various matrices, polynomials, stack and queue by using linked lists	Apply
C205.4	Implement different hierarchical forms of data and perform various operations in BST, tree traversals.	Apply
C205.5	Analyze graph traversal techniques of DFS,BFS and minimum cost spanning Trees.	Analyze
C205.6	Compare various searching and sorting techniques with their complexities.	Analyze

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CO: PO and PSO Mapping

Mapping of course outcomes with program outcomes:

Strong		Mode				LTM.		Slight	-1											
PO / CO	DS throu gh C++	201 7- 201 8	4	0	0	3	POI	PO2	P O 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1	PO1 2	PS OI	PS O2
C205.1	Illustra of Poly Sparse transport matrix multip using a	ynom matu osing and licati	ial rix, of ma	,			3	2			٠									
C205.2	Performand operation and quarrays.	ions o leue b	ofs	tac			3	2	-		-6									
C205.3	Impler matrice polyno and qu linked	es, mial: eue b	s, s	tac	k		3	2	٠	-1	11 <u>1</u> 1									
C205.4	Implementation in the second s	hical d per s oper	fo rfoi rati	rms rm ion:	s o	f	3	2	2	2										2
C205.5	Analyz travers of DFS minimus spannin	al tec S,BFS um co	hn ar	iqu nd	es	3	2	3	2	•										2

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C205.6	Compare various searching and sorting techniques with their complexities.	2	3	2	21						2
TOTAL		16	14	6	2						6
No of Co's Mapping With Po/Pso		6	6	3	1	-	-				3

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2017-2018

COMPUTER GRAPHICS

COURSE: COMPUTER GRAPHICS	DEGREE: B.Tech
COURSE CODE: R1621056	YEAR: II SEMESTER: I
REGULATION: R16	COURSE TYPE: REGULAR
ACADEMIC YEAR : 2017-2018	CREDITS: 3

After the completion of course, the student will be able to:

CO No.	Course Outcome Statement	Taxonomy Level
C206.1	Make Use of algorithms for drawing line, circle, eclipse and clipping algorithms for line, polygon, text and curve.	Apply
C206.2	Interpret 3D objects representation, viewing, visible surface identification, Animations, complex objects for fractals and self similarity, peano curves, Julia sets.	Understand
C206.3	Types of different Colour models	Understand
C206.4	Build graphic primitives by using OPENGL.'	Apply
C206.5	Contrast shading methods for detect objects, rendering texture and drawing shadows.	Analyze
C206.6	Know the ray tracing method for graphic primitives and perform Boolean operations on objects.	Understand

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CO: PO and PSO Mapping

Mapping of course outcomes with program outcomes:
Strong -3 Moderate -2 Slight -1

PO / CO	CG	2017- 2018	4	0	0	3	POI	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	POII	PO12	PSO 1	PSO 2
C206.1	algori line, o	Use of ithms fo circle, e lipping: ne, polyg urve.	r di elip algo	ose orith	ıms		3	2	-	-	7.0								2	
C206.2	repres visible identi object	sentation e surface fication, ts for fra curves,	n an e , co ecta	d mpl	lex		2	3		-										
C206.3	and the second second	of diffe		t			3	2												
C206.4		graphic ives by IGL.		ng			3	2	2	*)	-								2	
C206.5	metho object:	ast shadi ds for de s, render e and dra ws.	etec	t ţ			2	3	2	-	- ,									

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C206.6	Know the ray tracing method for graphic primitives and perform Boolean operations on objects.	2	3	2	÷	•			
TOTA L		15	15	6					4
No of Co's Mappin g With Po/Pso		6	6	3		,			2
Averag e		2.5	2.5	2					2

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2018-2019

Advanced Data Structure

COURSE : Advanced Data Structure	DEGREE: B.Tech
COURSE CODE: R1622053	YEAR: II SEMESTER: II
REGULATION: R16	COURSE TYPE: REGULAR
ACADEMIC YEAR : 2018-2019	CREDITS: 3

After the completion of course, the student will be able to:

CO No.	Course Outcome Statement	Taxonomy Level
C211.1	Apply sorting Techniques on different data	Apply
C211.2	Apply Hashing Technique for different the data performing operations	Apply
C211.3	Design priority Queues using heaps	Analyse
C211.4	Design of Binary Search Tree	Analyse
C211.5	Design of multi way Searching Tree.	Analyze
C211.6	Summarize the application of data search technique.	Understand

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CO: PO and PSO Mapping

Mapping of course outcomes with program outcomes: Strong -3 Moderate -2 Slight -1

		1g -5					-2		Bug	nt -1										
PO / CO	CNS	2019-	4	0	0	3	POI	PO2	PO3	PO4	PO5	P06	PO7	PO8	PO9	PO10	POII	PO12	PSO 1	PSO 2
C221.1		orm sort	_	ffer	en	t	2	2	3										2	
C211.2	Techn	y Hashi ique for ata perfe tion	r dif			:	2	2	3	2	,								2	
C211.3	Design using l	i priority neaps	Qui	eues	5		2	2	3		185									
C211.4	Desig Tree	n of Bin	nary	Sea	arc	h	2	2	3											
C211.5		n of mul		ay			2	2	3											
C211.6	applic	standing ation technic	of		ti da	he ta	3		2											
TOTAL							13	10	17	2	- 1								4	
No of Co's Mapping With Po/Pso							6	5	6	Ĭ.	*								2	
Averag e							2.1	2	2.8	0.5										

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2018-2019

PRINCIPLES OF PROGRAMMING LANGUAGES

COURSE : PRINCIPLES OF PROGRAMMING LANGUAGES	DEGREE: B.Tech
COURSE CODE: C214	YEAR: II SEMESTER: II
REGULATION: R16	COURSE TYPE: REGULAR
ACADEMIC YEAR : 2018-2019	CREDITS: 3

After the completion of course, the student will be able to:

CO No.	Course Outcome Statement	Taxonomy Level
C214.1	Describe the syntax, semantics and basic constructs of programming languages Key elements: Useful knowledge in lexical analysis and parsing phases of a compiler and Understand about data types, operators, control flow statements.	Understanding
C214.2	Design of sub programs in various programming languages Key elements: Apply function calls and execute stack applications.	Apply
C214.3	Apply object oriented concepts Key elements: Design sub programs, Implement the concurrency, exception and event handling mechanisms.	Apply
C214.4	Analyze functional program using ML(meta language) Key elements: Design inference rules and implement lambda calculus, procedures.	Analyze

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CO: PO and PSO Mapping

Mapping of course outcomes with program outcomes:

Strong -3

Moderate -2

Slight -1

C214	Principles of 2016 Programmin - 4 0 0 3 g Languages 2017	PO 1	PO 2	PO 3	PO4	P O 5	P O 6	P O 7	0	P O 9	PO 10	PO 11	PO 12	PS O1	PSO 2
C214.	Describe the syntax, semantics and basic constructs of programming languages Key elements: Useful knowledge in lexical analysis and parsing phases of a compiler and Understand about data types, operators, control flow statements	2	2	3		ī									
C214. 2	Design of sub programs in various programming languages Key elements: Apply function calls and execute stack applications.	2	2	3	2	(34)	-	20	ল	•	(* .)	-	2		2
C214. 3	Apply object oriented concepts Key elements: Design sub programs, Implement the concurrency, exception and event handling	2	2	2	3	,		-		=	5-	-	2	-	2

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	mechanisms.										Î			
C214. 4	Analyze functional program using ML(meta language) Key elements: Design inference rules and implement lambda calculus, procedures.	2	2	2	2	3	-	į	•	+	*	2	*	2
Total		10	10	12	9	6						8		8
No. Of	CO mapping with PO	5	5	5	4	2						4		4
Average	•	2	2	2.4	2.25	3						2		2

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2019-2020

COURSE OUTCOMES WITH PO & PSO MAPPING

COURSE: OPERATING SYSTEM	DEGREE: B.Tech
SUBJECT CODE: R1631055	YEAR: III SEMESTER: I
REGULATION: R16	COURSE TYPE: REGULAR
ACADEMIC YEAR : 2019-20	CREDITS: 3

After the completion of course, the student will be able to

CO No.	Course Outcome Statement	Taxonomy Level
C305.1	Apply the operating system resources, sérvices, processes and scheduling algorithms for system management	Apply
C305.2	Compare various memory management schemes and solve page replacement algorithms in memory management for efficient storage of data	Analyze
C305.3	Apply the principles of concurrency, deadlock prevention and avoidance algorithm to increase the system performance	Apply
C305.4	Solve issues related to file system interface, file system implementation and disk management for better utilization of memory	Apply
C305.5	Analyze administrative tasks on Linux Server and Android operating system for developing applications	Analyze

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CO: PO and PSO Mapping

Mapping of course outcomes with program outcomes:

Strong -3

Moderate -2

Slight -1

PO / CO	OS 2019- 20	400	3 PO1	PO2	PO3	PO4	PO5	P06	PO7	PO8	PO9	PO10	PO11	PO12	P501	PSO2
C305.1	Apply the operati system resources, services, processes scheduling algorith for system manage	s and	2	3	1,	1										
C305.2	Compare various memory managem schemes and solve replacement algorian memory manage for efficient storaged ata	page ithms ement	1	2	-	•										
C305.3	Apply the principle concurrency, dead prevention and avoidance algorithm increase the system performance	lock m to	2	2	,	*										
	Solve issues related file system interfac system implements and disk manageme	e, file ation	2	3	2	1										





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	for better utilization of memory											
	Analyze administrative tasks on Linux Server and Android operating system for developing applications	2	2	3,	1							
TOTAL		9	12	6	3	Ť		\exists		1		
No of Co Po/Pso	's Mapping with	5	5	3	3				585			
Average		1.8	2.4	2	1		Ħ					

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COURSE: Software Testing Methodologies	DEGREE: B.Tech
COURSE CODE: R1632054	YEAR: III SEMESTER: II
REGULATION: R16	COURSE TYPE: REGULAR
ACADEMIC YEAR : 2019-2020	CREDITS: 3

After the completion of course, the student will be able to:

Co. No.	Course Outcome Statement	Taxonomy Level
C313.1	Know the basic concepts of software testing and its essentials	Understand
C313.2	Perform functional testing using transaction flow and control flow graphs.	Apply
C313.3	Test a domain or an application and identifying the nice and ugly domains.	Analyze
C313.4	Classify a path expression and reduce them very well when needed.	Analyze
C313.5	Apply an effective, step-by-step process for identifying needed areas of testing, designing test conditions and building and executing test cases.	Apply
C313.6	Apply appropriate software testing tools, techniques and methods for even more effective systems during both the test planning and test execution phases of a software development project.	Apply

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JUSTIFICATION FOR CO-PO-PSO CORRELATION:

Mapping of course outcomes with program outcomes:

Strong -3 Mo

Moderate -2

Slight -1

СО/РО	ST M	2019- 20	4	0	0	3	PO 1	PO 2	PC 3	P O	P O5	P 06	P 07	P O8	PO 9	PO 10	PO1	POI 2	PS O1	PS O2
C313.1	Knov	the basic co are testing a	oncep nd its	ots o	f entia	ıls	3			+	2							2		2
C313.2	Perfo using	rming function to transaction to graphs.	onal i	testi	ng		3	3	3		3							3		2
C313.3	applic	to test a dom cation and ide and ugly dom	entify	ing	the		3	3	3	2	2							2		3
C313.4	Able to and re neede	to make a pareduce them vid.	th exp ery w	pres vell	sion wher	1	3		2		2							2		
C313.5	areas o	w an effective as for identify of testing, de- tions and builting test cases	ing r signi ding	need ng t	led est	p	2	2		2								2		2
C313.6	Apply testing method system planning	approprist tools, te ds for even as during ling and to of a softwar	ate chnic more both	ques eff the	ective te	nd /e st	2		2									2		2
TOTAL							16	8	10	4	9			1	+			13		11
No of Co's Mapping With Po/Pso							6	3	4	2	4							6		5
Average						1	2.6	2.6	2.5	2	2.2					1		2.16		2.2

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COURSE : DATA WAREHOUSING AND MINING	DEGREE: B.Tech
COURSE CODE: R1632052	YEAR: III SEMESTER: II
REGULATION: R16	COURSE TYPE: REGULAR
ACADEMIC YEAR : 2020-2021	CREDITS: 3

COURSE OBJECTIVES & OUTCOMES

COURSE OBJECTIVE:

S.NO	COURSE OBJECTIVE
1	Students will be enabled to understand and implement classical models and algorithms in data warehousing and data mining.
2 ,	They will learn how to analyze the data, identify the problems, and choose the relevant models and algorithms to apply.
3	They will further be able to assess the strengths and weaknesses of various methods and algorithms and to analyze their behavior.

COURSE OUTCOME: Students will be able to:

CO.NO	Description -		
1	Understand stages in building a Data Warehouse.		
2	Understand the need and importance of preprocessing techniques.		
3	Understand the need and importance of Similarity and dissimilarity techniques		
4	Analyze and evaluate performance of algorithms for Association Rules.		
5	Analyze Classification and Clustering algorithms.		

Course Instructor

P. Venu Bechu Program Coordinator

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Pulladigunta (Village), Vatticherukuru (Mandal),
Guntur-522017, Andhra Pradesh, India

Department of Computer Science and Engineering

COURSE: DATA WAREHOUSING AND DATA MINING	DEGREE: B.Tech	
COURSE CODE: R1632052	YEAR: III SEMESTER: II	
REGULATION: R16	COURSE TYPE: REGULAR	
ACADEMIC YEAR : 2020-2021	CREDITS: 3	

After the completion of course, the student will be able to:

CO No.	Course Outcome Statement	Taxonomy Level
C310.1	Understand stages in building a Data Warehouse	Understand
C310.2	Understand the need and importance of pre-processing techniques	Understand
C310.3	Analyze Classification Techniques.	Analyze
C310.4	Analyze and evaluate performance of algorithms for Association Rules.	Analyze
C310.5	Analyze Clustering algorithms.	Analyze

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