

One Semester Sample - Course Outcomes & CO-PO/PSO Mapping Matrix

Course Outcomes of Electronics Devices and Circuits

Sub: Electronics Devices and Circuits		Year/Sem: II-I	A.Y. 2020-21	Code:
C211				
C211.1	Identify the characteristics of various components			
C211.2	Describe the utilization of components			
C211.3	Determine the operating points of biasing techniques			
C211.4	Analyse the h-parameters of amplifiers			
C211.5	Design small signal amplifier circuits			
C211.6	Compare electronic devices & special purpose devices			

CO and PO Mapping Matrix

Sub: Electronics Devices and Circuits		Year/Sem: II-I						A.Y. 2020-21			Code: C211	
CO'S	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C211.1	3				2							
C211.2	3			2		2						
C211.3	3	2			3							
C211.4	2	2		3	2					1		
C211.5	2		2		2						3	
C211.6	2								1	2		
AVERAGE	2.5	2	2	2.5	2.25	2			1	1.5	3	

CO and PSO Mapping Matrix

CO'S	PSO 1	PSO 2	PSO3
C211.1			
C211.2	3	2	
C211.3			2
C211.4			
C211.5	2	2	3
C211.6			
Average	2.5	2	2.5

Correlation Level 1, 2, or 3 as defined below.

1-Slight (Low) 2-Moderate (Medium) 3-Substantial (High) “-“No Correlation

Course Outcomes of Network Analysis and Transmission Lines

Sub: Network Analysis and Transmission Lines		Year/Sem: II-I	A.Y. 2020-21	Code:
C212				
C212.1	Compare circuit matrices of linear graphs and describe magnetic circuits.			
C212.2	Examine the Steady state and transient analysis of RLC Circuits.			

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C212.3	Explain the characteristics of two port network parameters.
C212.4	Describe the transmission line parameters and configurations.
C212.5	Describe the transmission line parameters and configurations.
C212.6	Compute the smith chart and impedance matching device

CO and PO Mapping Matrix

Sub: Network Analysis and Transmission Lines													Year/Sem: II-I	A.Y. 2020-21	Code:
C212															
CO'S	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12			
C212.1	1	3	2						1			3			
C212.2	1	2				3						2			
C212.3	1	3	2			2						2			
C212.4	1	2	3			2			1			2			
C212.5	3	1	2												
C212.6			3						1						
Average	2.4	2.3	2.4			2.3			1			2.2			

CO and PSO Mapping Matrix

CO'S	PSO1	PSO2	PSO3
C212.1	2		
C212.2		3	
C212.3	3	2	
C212.4	2	3	
C212.5	1	1	
C212.6	3	3	
AVERAGE	2.4	2.4	

Correlation Level 1, 2, or 3 as defined below.

1-Slight (Low)

2-Moderate (Medium)

3-Substantial (High)

“-“No Correlation

Course Outcome of Digital System Design

Sub: Digital System Design	Year/Sem:II-I	A.Y. 2020-21	Subject Code :
C213			

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C213.1	Develop a digital logic and apply it to solve real life problems
C213.2	Explain Numerical information in different forms and Boolean Algebra theorems
C213.3	Develop Competence in combinational logic problem formulation and logic Optimization
C213.4	Develop Competence in analysis of synchronous and asynchronous sequential circuits
C213.5	Analyze and solve various engineering problems with finite state machine
C213.6	Design and analyze logic gates with different technologies

CO and PO Mapping Matrix

Sub: Digital System Design Year/Sem:II-I A.Y. 2020-21 Subject Code: C213												
CO'S	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C213.1	3	3	3									
C213.2	3	2	3									
C213.3	3	2	2									
C213.4	3	3	2		3							
C213.5	3	3	2									
C213.6	3	2	2									
Average	3	2.5	2.3		3							

CO and PSO Mapping Matrix

CO'S	PSO 1	PSO 2	PSO 3
C213.1	3	3	2
C213.2		3	3
C213.3		3	2
C213.4		3	2
C213.5		3	2
C213.6		3	2
AVERAGE	3	3	2.16

Correlation Level 1, 2, or 3 as defined below.

1-Slight (Low)

2-Moderate (Medium)

3-Substantial (High)

“-No Correlation

Course Outcomes of Signals and Systems


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Sub: Signals and Systems		Year/Sem: II-I	A.Y. 2020-21	Subject Code :
C214				
C214.1	Differentiate various signal functions.			
C214.2	Use any arbitrary signal in time and frequency domain			
C214.3	Explain the Concepts of Signals and Systems			
C214.4	Analyze the signals with different transform technique			
C214.5	Design the Time invariant Systems			
C214.6	Justify the applications related to signals and systems			

CO and PO Mapping Matrix

Sub: Signals and Systems		Year/Sem: II-I	A.Y. 2020-21	Subject Code :								
C214												
CO'S	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO1 0	PO1 1	PO1 2
C214.1	2	3										
C214.2	2	3		2		1						2
C214.3	2	3										
C214.4	2		1						2			
C214.5	3	2	2	1	1							
C214.6	2					3				1		1
Average	2.16	1.83	1.5	1.5	1	2			2	1		1.5

CO and PSO Mapping Matrix

CO'S	PSO 1	PSO 2	PSO 3
C214.1	1	3	
C214.2	1	3	
C214.3	1	3	
C214.4	1	3	
C214.5			
C214.6			
AVERAGE	1	3	

Correlation Level 1, 2, or 3 as defined below.

1-Slight (Low) 2-Moderate (Medium) 3-Substantial (High) “-“No Correlation

Course Outcomes of Probability Theory and Stochastic

Processes

Sub: Probability Theory and Stochastic Processes		Year/Sem: II-I	A.Y. 2020-21	Code:
C215				
C215.1	Explain the random experiments, event, probabilities and random variables			


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C215.2	Define Single and Multiple Random Variable Transformation
C215.3	Categorise the expectations of single and multiple random variables
C215.4	Explain the concept of random processes and their time domain description
C215.5	Analyse the spectral characteristics of random processes, and filtered random processes
C215.6	Design Shannon-fano coding and Huffmann coding for digital signals/symbols

CO and PO Mapping Matrix

Sub: Probability Theory and Stochastic Prozesse Year/Sem: II-I A.Y. 2020-21 Code: C215												
CO'S	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C215.1	3	3	2			2						1
C215.2	3	3	3									
C215.3	3	3		2								
C215.4	3	3			2	2						1
C215.5	3	3			2	2						1
C215.6	3	3	2	2	2	1						
AVERAGE	3	3	2.33	2	2	1.75						1

CO and PSO Mapping Matrix

CO'S	PSO1	PSO2	PSO3
C215.1	2	2	
C215.2	2	2	
C215.3	2	2	
C215.4	2	2	
C215.5	2	2	
C215.6	2	2	
AVERAGE	2	2	

Correlation Level 1, 2, or 3 as defined below.

1-Slight (Low)

2-Moderate (Medium)

3-Substantial (High)

“-No Correlation

Course Outcomes of Electronic Devices and Circuits Lab

Sub: Electronic Devices and Circuits Lab Year/Sem: II-I A.Y. 2020-21 Code: C216			
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C216.1	Determine the forward and reverse bias of diode
C216.2	Illustrate the characteristics of a special purpose diode
C216.3	Calculate the parameters of the input and output wave forms for a full wave rectifier and half wave rectifier
C216.4	Demonstrate the input and output characteristics if CE,CB,CC configuration
C216.5	Create the CE,CB,CC amplifier for different gains
C216.6	Compare the Analysis of CS,CD,CG amplifier

CO and PO Mapping Matrix

Sub: Electronic Devices and Circuits Lab				Year/Sem: II-I				A.Y. 2020-21		Code:		
C216												
CO'S	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO1 0	PO1 1	PO1 2
C216.1	3											
C216.2	3											
C216.3	3	3	3		3							
C216.4	3	3			3	3					3	
C216.5	3	2	3		3	3					3	
C216.6	3	2	3		2	3					3	

CO and PSO Mapping Matrix

CO'S	PSO1	PSO2	PSO3
C216.1	3	3	3
C216.2	3	3	3
C216.3	3	3	3
C216.4	3	3	3
C216.5	3	3	3
C216.6	3	3	3
AVERAGE	3	3	3

Correlation Level 1, 2, or 3 as defined below.

1-Slight (Low)

2-Moderate (Medium)

3-Substantial (High)

“-“No Correlation

Course Outcome of Digital System Design lab

Sub:Digital System Design lab	Year/Sem: II-I	A.Y. 2020-21	Subject Code:
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C217	
C217.1	Demonstrate the fundamental concepts and techniques used in digital electronics
C217.2	Design and analyze Logic gates with different technologies
C217.3	Develop competence in analysis of synchronous and asynchronous sequential circuits
C217.4	Analyze the simple De-Morgan's Theorems using GATES
C217.5	Analyze the working mechanism and design guidelines of different combinational and sequential circuit
C217.6	Develop competence in analysis of synchronous and asynchronous sequential circuits

CO and PO Mapping Matrix

Sub: Digital System Design lab		Year/Sem:II-I		A.Y. 2020-21		Subject Code:						
C217												
CO'S	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO1 0	PO1 1	PO1 2
C217.1	3	3	2	2	3				3			
C217.2	3	3	2	3	3				3			
C217.3	2	3	2		3				3			
C217.4	2	2	2		3				3			
C217.5	1	2	2		2				2			
C217.6		1	2	2	3				3			

CO and PSO Mapping Matrix

CO'S	PSO 1	PSO 2	PSO 3
C217.1	2	2	2
C217.2	2	3	2
C217.3	2	2	2
C217.4	2	1	1
C217.5	2	2	1
C217.6		1	1
AVERAG E	1.9	1.8	1.5

Correlation Level 1, 2, or 3 as defined below.

1-Slight (Low)

2-Moderate (Medium)

3-Substantial (High)

“-No Correlation


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Course Outcomes of Basic Simulation Lab

Sub: Basic Simulation Lab		Year/Sem: II-I	A.Y. 2020-21
Code:C218			
C218.1	Demonstrate the procedures, algorithms and concepts require to solve specific problem		
C218.2	Analyze the concepts of algebra, calculus and numerical solutions using MATLAB software		
C218.3	Develop the knowledge in MATLAB and can apply for project works		
C218.4	Analyze the simple mathematical functions using MATLAB		
C218.5	Experiment and visualize the simple plots using MATLAB Software		
C218.6	Demonstrate the easy operations using MATLAB Software		

CO and PO Mapping Matrix

Sub: Basic Simulation Lab		Year/Sem: II-I									A.Y. 2020-21		
Code:C218													
CO'S	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
C218.1	2	3											
C218.2	2	3		2		1						2	
C218.3	2	3											
C218.4	2		1						2				
C218.5	3	2	2	1	1								
C218.6	2					3				1		1	
AVERAGE	2.16	1.83	1.5	1.5	1	2			2	1		1.5	

CO and PSO Mapping Matrix

CO'S	PSO 1	PSO 2	PSO 3
C218.1	2		
C218.2		3	
C218.3	3	2	
C218.4	2	3	
C218.5	1	1	
C218.6	3	3	
AVERAGE	2.4	2.4	

Correlation Level 1, 2, or 3 as defined below.

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1-Slight (Low)

2-Moderate (Medium)

3-Substantial (High)

“-“No Correlation

Course Outcomes of Constitution of India

Sub : Constitution of India		Year/Sem: II-I	A.Y. 2020-21	Subject Code : C219
C219.1	Explain perspective of the Constitution of India			
C219.2	Express the fundamental rights			
C219.3	State Parliamentary Form of Government in India The constitution powers and President of India			
C219.4	Discuss perspectives of the constitutional amendments in India			
C219.5	Analyze the Directive Principles of State Policy – Its importance and implementation			
C219.6	Describe the Right to Life and Personal Liberty under Article 21			

CO and PO Mapping Matrix

Sub: Constitution of India		Year/Sem: II-I		A.Y. 2020-21		Subject Code:						
C219												
CO'S	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO1 0	PO1 1	PO1 2
C219.1	3	3	3		2							
C219.2	3	3	3		3							
C219.3	3	3	3		3							
C219.4	3	3	3		3							
C219.5	2	3	3		2							
C219.6		3	2									
AVERAG E	2.8	3	2.9		2.6							

CO and PSO Mapping Matrix

CO'S	PSO 1	PSO 2	PSO 3
C219.1	3	3	
C219.2	3	3	
C219.3	3	3	
C219.4	3	3	
C219.5	3	3	
C219.6	3	3	
AVERAG E	3	3	



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E

PROGRAM LEVEL CO-PO MAPPING

Correlation Level 1, 2, or 3 as defined below.

Code	Subject	PO 1	PO 2	PO 3	PO 4	P 5	P 6	P 7	P 8	P 9	PO 10	PO 11	PO 12
1-Slight (Low)	2-Moderate (Medium)					3-Substantial (High)					No Correlation		
	I B. TECH I SEMESTER												
C111	Mathematics-1	1.83	2				2.5						
C112	Applied Physics	2.33				2.25		1					1.66
C113	Programming for Problem Solving	2.33	2.5	2.33	2	2	1						2.9
C114	Engineering Graphics	1.16	1.25	2.17			2						
C115	Applied Physics Lab	2.33				2.4							2
C116	Program for Problem Solving Lab	1.33	2.17	2.83	1.5	1.67							1.33
C117	Environmental Science						1	3	2				2.5
	I B. TECH II SEMESTER												
C121	Mathematics-II	1.83	2.5	2			2.66						
C122	Chemistry	2.33	2.6	1.6		1	1	1					
C123	Basic Electrical Engineering	3	2				2.2						2.9
C124	Engineering Workshop	2	1	2		3	3			2			3
C125	English		2			2			2	1.5	2.8		1
C126	Engineering Chemistry Lab	2.6	2.5	2	2			2					

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C127	English Language and Communications Skills Lab									2	2.8		2.4
C128	Basic Electrical Engineering Lab	2.9	2.2	2.8	2.8	2.9	2.7			1			2.7
	II B. TECH I SEMESTER												
C211	Electronics Devices and Circuits	2.5	2	2	2.5	2.25	2			1	1.5	3	
C212	Network Analysis and Transmission Lines	2.4	2.3	2.4			2.3			1			2.2
C213	Digital System Design	3	2.5	2.3			3						
C214	Signals and Systems	2.16	1.83	1.5	1.5	1	2			2	1		1.5
C215	Probability Theory and Stochastic Processes	3	3	2.33	2	2	1.75						1
C216	Electronic Devices and Circuits Lab	3	2	3		2.75	3					3	
C217	Digital System Design lab	2.2	2.4	2	2.3	2.9				2.8			
C218	Basic Simulation Lab												
C219	Constitution of India	2.8	3	2.9		2.6							
	II B. TECH II SEMESTER												
C221	Laplace Transforms, Numerical Methods & Complex Variables	2.66	2	1.66	1.8								1
C222	Electromagnetic field and waves	2.16	1.83	1.5	1.5	1	2			2	1		1.5
C223	Analog and Digital Communications	2	2	2	2.5	2	2					1	
C224	Linear IC Applications	3	2.4	2.4	2	1						2.5	


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C225	Electronic circuits analysis	3	3			2.6	3			2.3 3	2.66	2.75	
C226	Analog and Digital Communications Lab	3	3	3		3				3			
C227	IC Applications Lab	3	3	3	3	3	3					3	3
C228	ECA Lab	2.5	2.5	2.5		2.5	2.5						
C229	Gender sensitization Lab	3	2	2		2.7 5	2					2	
	III B. TECH I SEMESTER												
C311	Microprocessors and Microcontrollers		3	2.3	2.5	1.3				1.5	1.5	2.2	2
C312	Data communications and Networks	2.5	1.5	2		2.1 6	2			3		2.33	
C313	Control system	2.3	2.4	3	1								
C314	Business economics & Financial Analysis	3	2		1		2	2.5				2	2.25
C315	Electronic measuring instruments	2.8	2.25	2.5	2.2	2	1					1	
C316	Microprocessor & Microcontrollers Lab	2.6	2.5	2.6	2.5	2.5	2.5					2.5	2.5
C317	Data Communications and Networks Lab	3	3	3		3				3			
C318	Advanced Communication Skills Lab						2			3	3		3
C319	Intellectual Property Rights	3	3	3		3				3			
	III B. TECH II SEMESTER												
C321	Antennas and Propagation	2.6	2.5			2.5				2.3 3		2.5	
C322	Digital signal processing	2.6	2	3	2.5	2.6	2			3	1.5	3	
C323	VLSI Design	2.8	2.5	2.8	2	3							

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C324	Professional Elective - II (ESD)	3		3		3	3						
C325	Industrial management	2	2	2	2	2.3	2	2	2			2	2
C326	Digital signal processing Lab	2	1.5	2	2	2	2						2
C327	E-CAD Lab	3	3	3	3	3	3					3	3
C328	Scripting Languages Lab	2	2.4	1.5				2					
C329	Environmental Science	1			1.5		1	2	2				2.5
	IV B. TECH I SEMESTER												
C411	Microwave and optical communication	2.3	2.2	2.2	1.2		1.3						
C412	Digital Image Processing	2.16	2.7	1.5	1.5	1	2			2	1		1.5
C413	Biomedical instrumentation	3	3	3	3	3	3						
C414	POE	2		2	2	1.5	2.6	1.5	2	2	2	3	1.5
C415	Professional practice, Law & Ethics						3		2.5	2.3	2.5	2	2.5
C416	MW&OC Lab	3	3	2.8	2.8	2.8	2.8					2.8	2.8
C417	Industrial Oriented Mini Project/Summer internship	2.2	2.8	2	2.7	2.8	2.6			1	3		2.7
C418	Seminar	2	3	2.8	2.9	2.7	2	2		2.7	2.9	2	3
C419	Project stage-1	2.8	2.7	2.7	2.9	2.7	2.8	2		2.6	2.7	1	2.9
	IV B. TECH II SEMESTER												
C421	Radar system	2	1.8	1.4		1.8			1	1.5		2	1.5
C422	PE-VI(Low power VLSI Design)	2	2	2.8		2							
C423	OE-III(DBMS)	1.8	2.3	2.4		2.3	2.3	2		2		1	1.5
		3	3	1	3	3	2	2	1	3	3	3	3

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C424	Project stage-2												
	AVERAGE	2.4 5	2.3 6	2.3	2.1	2.3	2.2	1.9	1.8	2.1	2.1 7	2.2	2.1


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PROGRAM LEVEL CO-PSO MAPPING

Code	Subject	PSO1	PSO2	PSO3
I B. TECH I SEMESTER				
C111	Mathematics - I	1.3		
C112	Applied Physics		2.5	
C113	Programming for Problem Solving	3.00	2.33	
C114	Engineering Graphics	1.75		
C115	Applied Physics Lab	2.00	1.00	1.8
C116	Programming for Problem Solving Lab	1	1	3
C117	Environmental Science	1	1.33	1.16
I B. TECH II SEMESTER				
C121	Mathematics - II	1.66	1.66	
C122	Chemistry	1.33	1	
C123	Basic Electrical Engineering		3	3
C124	Engineering workshop		2	3
C125	English	1.5	1.6	1
C126	Chemistry Lab	1	2	1
C127	ELCS LAB			1.75
C128	BEE LAB	3	1	
II B. TECH I SEMESTER				
C211	Electronic Devices and Circuits	2.2	2.2	2.2
C212	Network Analysis and Transmission Lines	2.4	2.4	
C213	Digital System Design	3	3	2.16


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C214	Signals and Systems		2	
C215	Probability Theory and Stochastic Processes	2	2	
C216	Electronic Devices and Circuits Lab	3	3	3
C217	Basic Simulation Lab	3	3	3
C218	Constitution of India	3	3	
II B. TECH II SEMESTER				
C221	LT, N& C Variables	2	1	1
C222	Electromagnetic Fields and Waves	2.3	2.5	
C223	Analog and Digital Communications	2	1.33	1
C224	Linear IC Applications	2.3	2.6	2.6
C225	Electronic Circuit Analysis	2.83	2.5	2.66
C226	A and D Communication Lab	3	3	3
C227	IC Applications Lab	3	3	3
C228	Electronic Circuit Analysis Lab	3	3	3
C229	Gender Sensitization Lab	3	3	3
III B. TECH I SEMESTER				
C311	Microprocessors & Microcontrollers	2.2	2.4	
C312	Data Communications and Networks	2	2.6	
C313	Control Systems	2.6	2.5	2.5
C314	BE& FA		2.4	
C315	Professional Elective - I(EMI)	3	3	

C316	MP & MC Lab		3	
C317	DC and N Lab	2.83	2.66	2
C318	Advanced Communication Skills Lab			2.9
C319	Intellectual Property Rights	3	2	2
III B. TECH II SEMESTER				
C321	Antennas and Propagation	2.5	2	2.5
C322	Digital Signal Processing	3	3	1
C323	VLSI Design		2	2
C324	Professional Elective - II(ESD)	1	2	2
C325	Open Elective - I(IM)	2	2	2
C326	Digital Signal Processing Lab	3	3	3
C327	e – CAD Lab	2	1	2
C328	Scripting Languages Lab	3	3	3
C329	Environmental Science	1	1	
IV B. TECH I SEMESTER				
C411	Microwave and optical communication.	3	2	1.6
C412	PE-III(DIP)	1.8		1
C413	PE-IV(BMI)	2	2	
C414	OE-II(POE)			2.6
C415	Professional practice, Law & Ethics			2.6
C416	MW&OC Lab	3	3	3
C417	Industrial Oriented Mini Project/Summer internship	3	3	3
C418	Seminar	3	3	3

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C419	Project stage-1	3	3	3
IV B. TECH II SEMESTER				
C421	PE-V(RS)	1.8	1	2
C421	PE-VI(Low power VLSI Design)	2	2	
C423	OE-III(DBMS)	1.67	1.67	2.17
C424	Project stage-II	3	3	3
	AVERAGE	2.32	2.23	2.30


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In quality teaching and learning process, mapping and attainment is becoming an important process. The compliance of continuous improvement can be done by deciding action plan for weak attainment and is a key factor leading to continuous student learning.

Program Outcomes (PO's) / Program specific Outcomes (PSO's) are one step broader statements than CO's that describe what students are expected to know and be able to do upon the graduation. These relate to the skills, knowledge, and behavior that students acquire in their matriculation through the program.

The program outcomes are assessed with the help of course outcomes of the relevant courses through direct and indirect methods.

Direct Assessment Method:

Direct measures are provided through direct examinations or observations of student knowledge or skills against measurable course outcomes. The knowledge and skills described by the course outcomes are mapped to specific problems on internal exams/home assignment/group task. Throughout the semester the faculty records the performance of each student on each course outcome. At the end of the semester students receive grades from external exams.

The Department has recognized that the commitment to teaching and learning must include assessing and documenting what and how much students are learning and using this information - to improve the educational experiences being offered. While there is certainly a strong external drive for Outcomes Assessment, the Departments approach to Outcomes Assessment focuses primarily on improving student learning. In many ways, Outcomes Assessment is a process that we, as educators, follow strictly. When we articulate the main goals for a course, we check to see whether the students have achieved them, and then use the results to make our courses better. The Departments Outcomes Assessment approach takes advantage of what we are already doing by formalizing the process and broadening our individual efforts. Assessment Tools used:

1. Direct Assessment Tools
2. Indirect Assessment Tools
- 3.


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Direct Assessment methods:

Assignment:

The assignment is a qualitative performance assessment tool designed to assess students' knowledge of engineering practices, framework, and problem solving. An analytic rubric was developed to assess students' knowledge with respect to the learning outcomes associated with the scenario tool. Both the home Assignment and Assignment contributes an overall 05 marks towards the internal Assessment.

Objective:

Sessional Quiz is a Multiple Choice Questions (MCQ) based and fill in the blanks based examination system that provides an easy way to assess objective skills which involves certain short and analytical concepts of the course. This Sessional Quiz exam contributes an overall 10 marks towards the internal Assessment. The objective question paper is given by the university. The sessional objective exam contributes 10 marks towards the internal assessment.

Theory:

This type of performance assessment is carried out during the examination sessions which are held twice a semester. Each and every session is focused in attaining the course outcomes. This type of Assessment helps in evaluating the students understanding of the course concepts in an elaborative way. This Session Theory exam contributes an overall of 10 marks towards the internal session Marks.

All put together the Internal Assessment is evaluated for 25 marks which includes the Assignments, objective, Theory Exams.

Semester End examination is a metric for assessing whether all the POs are attained or not. Examination is more focused on attainment of course outcomes and program outcomes using a descriptive exam. The university will give the question paper for end semester examination and which is evaluated for 75 marks. The total assessment will be done for 100 marks.

Tools	Weightage
Theory courses	40%
Lab Courses	20%
Project	10%
Seminar	10%

Indirect assessment methods:

Indirect assessment strategies are implemented by embedding them in the course end feedback, exit student feedback, employer and Alumni feedback. Finally, Program outcomes are assessed with above mentioned data and program assessment committee concludes the PO attainment levels are 80% weightage is given for direct assessment and 20% for indirect assessment

Indirect methods such as surveys and feedbacks taken the stakeholders to identify the student learning they assess opinions or thoughts about the graduate's knowledge or skills and their values by different stakeholders. For determining indirect attainment of POs and PSOs, student exit feedback, employer feedback and Alumni feedback was considered (which includes attainments from both curricular & co/extracurricular activities).

S. No.	Indirect assessment method	Weightage	Method description
1	Course end feedback and Exit student feedback	34%	Collect variety of information about program satisfaction and college from the Alumni students.
2	Alumni feedback	33%	Collect when the student completes his/her degree and leaving the institution.
3	Employer feedback	33%	Collect variety of information about the graduate's skills, capabilities and opportunities(during the placement drives, also from the employers where the graduates are contributing)

Various parameters were considered for framing the feedback from the stakeholders. All questions were mapped to the relevant PO's. Average of all the feedback for each question was taken and the same was assigned to the relevant PO. In case of multiple questions were present for the same PO, average was taken.

PO/PSO attainment from theory course:

CO-PO& CO-PSO Mapping

1. POs and PSOs are attained through the COs. So identify the POs/PSOs corresponding to Set COs.
2. Every Course Leads to Some Outcomes. All the courses, laboratories and project works together must cover all the POs and PSOs.
3. A PO/PSO can have contributions from many COs


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2020-21 CO ATTAINMENTS SEMESTER WISE

TEAR /SEM	SUBJECT NAME	COURSE CODE	CO1	CO2	CO3	CO4	CO5	CO6	DIRECT ATTAINMENT	INDIRECT ATTAINMENT	OVERAL ATTAINMENT	SET TARGET	ATTAINMENT STATUS Y/N
I/I	Maths-I	C111	2.1	2	1.74	2	2.04	1.93	1.73	2.92	1.96	1.82	Y
	Applied physics	C112	2.32	2.27	2.51	2.07	2.14	2.51	2.22	2.67	2.3	1.94	Y
	PPS	C113	2.7	2.4	3	2.4	2	2.4	2.18	3	2.48	2.3	Y
	Engg.GraphicS	C114	2.68	2.68	2.58	2.59	2.51	2.44	2.47	3	2.58	2.43	Y
	Applied physics LAB	C115	2.8	2.8	2.9	2.8	2.9	2.8	3	2.17	2.83	2.61	Y
	PPS LAB	C116	3	3	3	3	3	3	3	3	3	3	Y
	ES	C117	2.4	2.4	2.5	2.4	2.5	2.4	2.5	2.16	2.43	2	Y
I/II	Maths-2	C121	2.04	2	2.02	1.74	1.76	1.68	1.61	2.92	1.873	1.83	Y
	Chemistry	C122	2.4	2.41	2.37	2.5	2.46	2.44	2.44	2.43	2.43	1.58	Y
	BEE	C123	2.36	2.06	2.36	2.06	2.06	2.24	1.99	3	2.19	2.192	N
	ENGG.Workshop	C124	2.85	2.9	2.92	2.84	3	2.89	3	2.5	2.9	2.28	Y
	English	C125	2.4	2.41	2.37	2.5	2.46	2.44	2.48	2.43	2.43	1.58	Y
	Chemistry LAB	C126	2.8	2.8	2.9	2.8	2.9	2.8	3	2.17	2.83	2.21	Y
	ELCS LAB	C127	3	2.9	2.84	2.96	3	2.96	3	2.72	2.94	2.56	Y
	BEE LAB	C128	3	2.9	2.84	2.96	3	2.96	3	2.72	2.94	2.05	Y
II/I	Electronic Devices and Circuits	C211	2.57	2.56	2.51	2.56	2.44	2.52	2.51	2.6	2.52	2.08	Y
	Network Analysis and	C212	2.18	2.01	2.12	2.12	2.12	2.119	2.03	2.5	2.12	2	Y


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	Transmission Lines												
	Digital System Design	C213	2.05	2.01	2	2.14	2.08	2.06	2.01	2.24	2.05	2.7	Y
	Signals and Systems	C214	2.64	2.6	2.66	2.49	2.62	2.58	2.58	2.67	2.59	2.19	Y
	Probability Theory and Stochastic Processes	C215	2.44	2.24	2.24	2.24	2.56	2.56	2.35	2.66	2.38	2.22	Y
	Electronic Devices and Circuits Lab	C216	2.61	2.76	2.59	2.58	2.66	2.76	2.7	2.5	2.66	2.79	N
	Digital System Design Lab	C217	2.05	2.01	2	2.14	2.08	2.06	2.01	2.24	2.05	2.7	Y
	Basic Simulation Lab	C218	2.85	2.9	2.92	2.84	3	2.89	3	2.45	2.9	2.05	Y
	Constitution of India	C219	2.56	2.6	2.54	2.54	2.56	2.52	2.6	2.36	2.55	2.4	Y
II/II	LT, Numerical Method & Complex Variables	C221	1.96	2.2	2.22	2.26	2.32	2.24	2.18	2.33	2.2	1.81	Y
	Electromagnetic Fields and Waves	C222	2.24	2.3	2.51	2.32	2.04	2	2.215	2.33	2.26	2.5	Y
	Analog and Digital Communications	C223	2.24	2.12	2.26	2.42	2.3	2.29	2.29	2.21	2.27	2.11	Y
	Linear IC Applications	C224	2.36	2.32	2.4	2.38	2.19	2.29	2.28	2.5	2.32	1.96	Y
	Electronic Circuit Analysis	C225	2.54	2.4	2.53	2.54	2.5	2.6	2.52	2.52	2.51	2.08	Y
	Analog and Digital Communications Lab	C226	2.94	2.88	2.98	2.84	2.98	2.94	3	2.6	2.93	2.41	Y
	IC	C227	2.61	2.7	2.59	2.58	2.66	2.62	2.7	2.33	2.62	2.1	Y

	Applications Lab												
	Electronic Circuit Analysis Lab	C228	2.53	2.56	2.64	2.5	2.58	2.64	2.6	2.475	2.57	2.5	Y
	Gender Sensitization Lab	C229	2.56	2.6	2.54	2.54	2.56	2.52	2.6	2.36	2.55	2.4	Y
III/I	Microprocessors & Microcontrollers	C311	2.52	2.43	2.44	2.41	2.34	2.412	2.4075	2.5	2.46	1.92	Y
	Data Communications and Networks	C312	2.91	2.91	2.76	2.91	2.93	2.93	2.86	2.5	2.89	2.19	Y
	Control Systems	C313	2.66	2.68	2.54	2.66	2.48	2.58	2.6	2.6	2.603	2.075	Y
	Business Economics & Financial Analysis	C314	2.36	2.36	2.36	2.24	2.2	2.2	2.1	3	2.28	2.07	N
	Professional Elective - I(EMI)	C315	1.92	2.05	2.21	2.1	2.2	2.11	1.97	1.86	2.11	1.96	Y
	Microprocessors & Microcontrollers Lab	C316	2.56	2.6	2.54	2.54	2.56	2.52	2.6	2.36	2.55	2.4	Y
	Data Communications and Networks Lab	C317	2.84	2.9	2.92	2.8	2.94	2.88	3	2.4	2.88	2.7	Y
	Advanced Communication Skills Lab	C318	3	2.9	2.84	2.96	3	2.96	3	2.71	2.94	2.75	Y
	Intellectual Property Rights	C319	2.73	2.83	2.7	2.4	2.72	2.56	2.77	2.51	2.66	2.18	y
III/II	Antennas and Propagation	C321	2.02	2.39	2.28	2.18	2.02	2.06	2.12	2.28	2.158	2.08	Y
	Digital	C322	2.45	2.44	2.46	2.45	2.43	2.41	2.42	2.53	2.44	1.96	Y


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	Signal Processing												
	VLSI Design	C323	2.05	2.06	2.17	2.17	2.09	2.14	2.08	2.18	2.11	2	Y
	Professional Elective - II(ESD)	C324	2.62	2.52	2.54	2.57	2.5	2.6	2.57	2.52	2.55	2.08	Y
	Open Elective - I(IM)	C325	1.59	2.51	2.48	2.44	2.2	2.3	2.45	2.19	2.25	2	Y
	Digital Signal Processing Lab	C326	2.96	2.9	2.94	2.96	2.8	2.9		2.62	2.92	2.2	Y
	E-CAD Lab	C327	2.85	2.94	2.83	2.86	2.9	2.88	3	2.38	2.88	2.36	Y
	Scripting Languages Lab	C328	2.9	2.8	3	2.9	2.8	2.9	3	2.61	2.8	1.9	Y
	Environmental Science	C329	2.4	2.4	2.5	2.4	2.5	2.4	2.5	2.16	2.43	2	Y
IV/I	Microwave and optical communication	C411	2.52	2.39	2.46	2.52	2.42	2.56	2.47	2.5	2.47	2.5	Y
	PE-III(DIP)	C412	2.6	2.58	2.42	2.38	2.56	2.58	2.53	2.47	2.52	1.712	Y
	PE-IV(BMI)	C413	2.4	2.54	2.54	2.48	2.24	2.32	2.39	2.53	2.43	2.02	Y
	OE-II(POE)	C414	2.58	2.52	2.64	2.62	2.64	2.66	2.6	2.65	2.61	2.26	Y
	Professional practice, Law & Ethics	C415	2.8	2.78	2.82	2.9	2.96	2.86	2.96	2.4	2.85	2.2	Y
	MW&OC Lab	C416	2.96	2.94	2.88	2.82	2.96	2.98	3	2.69	2.92	2.36	Y
IV/II	PE-V(RS)	C421	2.94	2.88	2.9	2.9	2.96	2.82	3	2.5	2.9	2.26	Y
	PE-VI(Low power VLSI Design)	C422	2.28	2.26	2.3	2.32	2.11	2.17	2.17	2.52	2.24	2.2	Y
	OE-III(DBMS)	C423	2.48	2.48	2.66	2.64	2.56	2.62	2.57	2.56	2.57	2.26	Y

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Coordinator

HOD

CO Attainment Levels Direct Attainment


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SUBJECT NAME	SUBJECT CODE	DIRECT ATTAINMENT						OVERALL DIRECT ATTAINMENT
		CO1	CO2	CO3	CO4	CO5	CO6	
Mathematics – I	C111	1.9	1.75	1.48	1.78	1.78	1.69	1.73
Applied Physics	C112	2.15	2.22	2.39	2.09	2.06	2.39	2.22
Programming for Problem Solving	C113	2.60	2.30	2.00	2.30	1.60	2.30	2.18
Engineering Graphics	C114	2.60	2.60	2.48	2.49	2.30	2.30	2.46
Applied Physics Lab	C115	3.00	3	3.00	3.00	3.00	3.00	3.00
Programming for Problem Solving Lab	C116	3.00	3	3.00	3.00	3.00	3.00	3.00
Environmental Science	C117	2.50	2.5	2.50	2.50	2.50	2.50	2.50
Mathematics – II	C121	1.82	1.75	1.82	1.40	1.40	1.37	1.59
Chemistry	C122	2.39	2.37	2.39	2.5	2.48	2.48	2.44
Basic Electrical Engineering	C123	2.2	1.85	2.2	1.82	1.82	2.05	1.99
Engineering Workshop	C124	3.00	3	3.00	3.00	3.00	3.00	3.00
English	C125	2.39	2.37	2.39	2.50	2.48	2.48	2.44
Engineering Chemistry Lab	C126	3	3	3	3	3	3	3.00
English Language and Communication Skills Lab	C127	3	3	3	3	3	3	3.00
Basic Electrical Engineering Lab	C128	3	3	3	3	3	3	3.00
Electronic Devices and Circuits	C211	2.52	2.6	2.52	2.48	2.48	2.48	2.51
Network Analysis and Transmission Lines	C212	2.125	1.99	2.02	2.05	1.99	1.99	2.03
Digital System Design	C213	1.99	1.9	1.9	2.125	2.08	2.08	2.01
Signals and Systems	C214	2.6	2.6	2.6	2.49	2.6	2.6	2.58
Probability Theory and Stochastic Processes	C215	2.4	2.45	2.5	2.3	2.4	2.4	2.41
Electronic Devices and Circuits Lab	C216	3	3	3	3	3	3	3.00
Digital System Design Lab	C217	3	3	3	3	3	3	3.00
Basic Simulation Lab	C218	3	3	3	3	3	3	3.00
Constitution of India	C219	3	3	3	3	3	3	3.00
Laplace Transforms, Numerical Methods & Complex Variables	C221	1.9	2.3	2.2	2.2	2.2	2.3	2.18
Electromagnetic Fields and Waves	C222	2.3	2.39	2.39	2.15	2.06	2	2.22
Analog and Digital Communications	C223	2.22	2.05	2.22	2.43	2.43	2.43	2.30
Linear IC Applications	C224	2.3	2.25	2.3	2.45	2.19	2.19	2.28
Electronic Circuit Analysis	C225	2.45	2.45	2.54	2.48	2.6	2.6	2.52

Analog and Digital Communications Lab	C226	3	3	3	3	3	3	3.00
IC Applications Lab	C227	2.7	2.7	2.7	2.7	2.7	2.7	2.70
Electronic Circuit Analysis Lab	C228	2.6	2.6	2.6	2.6	2.6	2.6	2.60
Gender Sensitization Lab	C229	3	3	3	3	3	3	3.00
Microprocessors & Microcontrollers	C311	2.52	2.39	2.45	2.39	2.3	2.39	2.41
Data Communications and Networks	C312	2.1	2.12	2.1	2.2	2.2	2.2	2.15
Control Systems	C313	2.6	2.6	2.6	2.6	2.6	2.6	2.60
Business Economics & Financial Analysis	C314	2.2	2.2	2.2	2.05	2	2	2.11
Professional Elective - I(EMI)	C315	1.9	1.9	2.02	2.05	2	2.5	2.06
Microprocessors & Microcontrollers Lab	C316	2.6	2.6	2.6	2.6	2.6	2.6	2.60
Data Communications and Networks Lab	C317	3	3	3	3	3	3	3.00
Advanced Communication Skills Lab	C318	3	3	3	3	3	3	3.00
Intellectual Property Rights	C319	3	3	3	3	3	3	3.00
Antennas and Propagation	C321	2	2.39	2.3	2.07	2	2	2.13
Digital Signal Processing	C322	2.39	2.39	2.48	2.52	2.39	2.39	2.43
VLSI Design	C323	2.48	2.45	2.48	2.6	2.6	2.6	2.54
Professional Elective - II(ESD)	C324	2.6	2.6	2.48	2.54	2.6	2.6	2.57
Open Elective - I(IM)	C325	2.3	2.6	2.6	2.6	2.3	2.3	2.45
Digital Signal Processing Lab	C326	3	3	3	3	3	3	3.00
e – CAD Lab	C327	3	3	3	3	3	3	3.00
Scripting Languages Lab	C328	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Environmental Science	C329	2.50	2.50	2.50	2.50	2.50	2.50	2.50
Microwave and optical communication	C411	2.45	2.39	2.45	2.6	2.48	2.48	2.48
PE-III(DIP)	C412	2.6	2.6	2.5	2.4	2.5	2.6	2.53
PE-IV(BMI)	C413	2.38	2.6	2.5	2.38	2.2	2.3	2.39
OE-II(POE)	C414	2.6	2.6	2.6	2.6	2.6	2.6	2.60
Professional practice, Law & Ethics	C415	2.53	2.48	2.53	2.53	2.48	2.48	2.51
MW&OC Lab	C416	3	3	3	3	3	3	3.00
Industrial Oriented Mini Project/Summer internship	C417	3	3	3	3	3	3	3.00
Seminar	C418	3	3	3	3	3	3	3.00
Project stage-1	C419	3	3	3	3	3	3	3.00
PE-V(RS)	C421	3	3	3	3	3	3	

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PE-VI(Low power VLSI Design)	C422	2.2	2.2	2.2	2.2	2.14	2.09	
OE-III(DBMS)	C423	2.45	2.6	2.6	2.6	2.6	2.6	2.58
Project stage-II	C424	3	3	3	3	3	3	3.00
								2.17

CO INDIRECT ATTAINMENTS LEVEL INDIRECT METHOD

SUBJECT NAME	SUBJECT CODE	INDIRECT ATTAINMENT						OVERALL INDIRECT ATT.
		CO1	CO2	CO3	CO4	CO5	CO6	


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 Jangaon, Madhya Pradesh

Mathematics – I	C111	2.90	3.00	2.80	2.90	3.00	2.90	2.92
Applied Physics	C112	3.00	2.50	3.00	2.00	2.50	3.00	2.67
Programming for Problem Solving	C113	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Engineering Graphics	C114	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Applied Physics Lab	C115	2.00	2.00	2.50	2.00	2.50	2.00	2.17
Programming for Problem Solving Lab	C116	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Environmental Science	C117	2.00	2.00	2.50	2.00	2.50	2.00	2.17
Mathematics – II	C121	2.90	3.00	2.80	2.90	3.00	2.90	2.92
Chemistry	C122	2.50	2.60	2.30	2.50	2.40	2.30	2.43
Basic Electrical Engineering	C123	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Engineering Workshop	C124	2.25	2.50	2.60	2.20	3.00	2.45	2.50
English	C125	2.50	2.60	2.30	2.50	2.40	2.30	2.43
Engineering Chemistry Lab	C126	2.00	2.00	2.50	2.00	2.50	2.00	2.17
English Language and Communication Skills Lab	C127	3.00	2.50	2.20	2.80	3.00	2.80	2.72
Basic Electrical Engineering Lab	C128	3.00	2.50	2.20	2.80	3.00	2.80	2.72
Electronic Devices and Circuits	C211	2.80	2.40	2.50	2.90	2.30	2.70	2.60
Network Analysis and Transmission Lines	C212	2.40	2.50	2.50	2.40	2.60	2.60	2.50
Digital System Design	C213	2.30	2.45	2.40	2.20	2.10	2.00	2.24
Signals and Systems	C214	2.80	2.60	2.90	2.50	2.70	2.50	2.67
Probability Theory and Stochastic Processes	C215	2.60	2.20	2.70	2.40	2.20	2.80	2.48
Electronic Devices and Circuits Lab	C216	2.25	2.50	2.60	2.20	2.80	2.45	2.47


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 Jangaon (Dist)-505167.

Digital System Design Lab	C217	2.5	2.3	2.1	2.4	2.2	2.2	2.28
Basic Simulation Lab	C218	2.25	2.50	2.60	2.70	2.80	2.45	2.55
Constitution of India	C219	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Laplace Transforms, Numerical Methods & Complex Variables	C221	2.20	1.80	2.30	2.50	2.80	2.40	2.33
Electromagnetic Fields and Waves	C222	2.00	2.00	3.00	3.00	2.00	2.00	2.33
Analog and Digital Communications	C223	2.40	2.40	2.50	2.40	1.80	1.75	2.21
Linear IC Applications	C224	2.60	2.60	2.80	2.10	2.20	2.70	2.50
Electronic Circuit Analysis	C225	2.90	2.20	2.50	2.80	2.10	2.60	2.52
Analog and Digital Communications Lab	C226	2.70	2.40	2.90	2.20	2.90	2.70	2.63
IC Applications Lab	C227	2.25	2.70	2.15	2.10	2.50	2.30	2.33
Electronic Circuit Analysis Lab	C228	2.25	2.40	2.80	2.10	2.50	2.80	2.48
Gender Sensitization Lab	C229	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Microprocessors & Microcontrollers	C311	2.50	2.60	2.40	2.50	2.50	2.50	2.50
Data Communications and Networks	C312	2.70	2.40	2.80	2.90	2.60	2.70	2.68
Control Systems	C313	2.90	3.00	2.30	2.90	2.00	2.50	2.60
Business Economics & Financial Analysis	C314	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Professional Elective - I(EMI)	C315	2.00	2.50	3.00	2.00	2.50	3.00	2.50
Microprocessors & Microcontrollers Lab	C316	2.40	2.60	2.30	2.30	2.40	2.20	2.37
Data Communications and Networks Lab	C317	2.20	2.50	2.60	2.00	2.70	2.40	2.40
Advanced Communication Skills Lab	C318	3.00	2.50	2.20	2.80	3.00	2.80	2.72
Intellectual Property Rights	C319	3.00	3.00	3.00	3.00	3.00	3.00	3.00


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 Colombo Nagar, Yeshwanthapuram, Vijaya
 Jangash (M), Jangash (Dist)-506107.

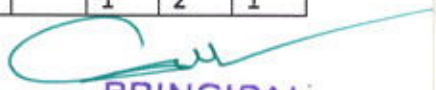
Antennas and Propagation	C321	2.10	2.40	2.20	2.60	2.10	2.30	2.28
Digital Signal Processing	C322	2.70	2.80	2.40	2.20	2.60	2.50	2.53
VLSI Design	C323	2.20	2.46	2.30	2.50	2.01	1.90	2.23
Professional Elective - II(ESD)	C324	2.70	2.20	2.80	2.70	2.10	2.60	2.52
Open Elective - I(IM)	C325	2.20	2.17	2.00	1.80	2.70	2.30	2.20
Digital Signal Processing Lab	C326	2.80	2.50	2.70	2.80	2.40	2.50	2.62
e – CAD Lab	C327	2.25	2.70	2.15	2.30	2.50	2.41	2.39
Scripting Languages Lab	C328	2.80	2.50	3.00	2.50	2.40	2.70	2.65
Environmental Science	C329	2.00	2.00	2.50	2.00	2.50	2.50	2.25
Microwave and optical communication	C411	2.80	2.40	2.50	2.20	2.20	2.90	2.50
PE-III(DIP)	C412	2.60	2.50	2.10	2.30	2.80	2.50	2.47
PE-IV(BMI)	C413	2.50	2.30	2.70	2.90	2.40	2.40	2.53
OE-II(POE)	C414	2.50	2.20	2.80	2.70	2.80	2.90	2.65
Professional practice, Law & Ethics	C415	2.40	2.20	2.50	2.40	2.40	2.30	2.37
MW&OC Lab	C416	2.80	2.70	2.40	2.10	2.80	2.90	2.62
Industrial Oriented Mini Project/Summer internship	C417	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Seminar	C418	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Project stage-1	C419	3.00	3.00	3.00	3.00	3.00	3.00	3.00
PE-V(RS)	C421	2.70	2.40	2.50	2.50	2.80	2.10	2.50
PE-VI(Low power VLSI Design)	C422	2.60	2.50	2.70	2.80	2.00	2.50	2.52
OE-III(DBMS)	C423	2.60	2.00	2.90	2.80	2.40	2.70	2.57
Project stage-II	C424	2.50	2.50	2.50	2.65	2.65	2.65	2.58

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Jangaon (Md), Jangaon (Dist)-506167.

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2020-21 PO/PSO ATTAINMENTS SEMISTER WISE

NAME OF THE COURSE	COURSE CODE	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
Applied physics LAB	C115	2.3 3				2.4							2	2	1	1.8
PPS LAB	C116	1.3 3	2.1 7	2.8 3	1.5	1.6 7	0.8 3			0.6 7		1.8 3	1.3 3	1	1	3
ENGG.Workshop	C124	2	1	2		3	3			2			3		2	3
Chemistry LAB	C126	3	3		2									1	2	1


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ELCS LAB	C127								2.6	2.5	2.8		2.4		2	2
BEE LAB	C128	2.3 3	2.3 3	2		2				2	2	2		2	2	
Electronic Devices and Circuits Lab	C216	2.8 9	2.9	2.9 2		2.9	2.9					2.9			2.9	2.9
DSD Lab	C217	2.8 9	2.9	2.9 2		2.9	2.9					2.9			2.9	2.9
Basic Simulation Lab	C218	3	2	2		2. 8	2					2		3	3	3
Analog and Digital Communications Lab	C226	2.9 3	2.9 3	2.9 3		2.9 3				2.9 3				2.9 3	2.9 3	2.9 3
IC Applications Lab	C227	2.7	2.7	2.7	2.7	2.7	2.7					2.7	2.7		2.6 3	2.6 3
Electronic Circuit Analysis Lab	C228	2.5	2.5	2.5	2.5	2.5	2.5					2.5	2.5	2.3	2.3	2.3
Gender Sensitization Lab	C229	2.6	2.6	2.6	2.6	2.6	2.6					2.6	2.6	2.6	2.6	2.6
Microprocessors & Microcontrollers Lab	C316	2.6	2.6	2.6	2.6	2.6	2.6					2.6	2.6	2.6	2.6	2.6
Data Communications and Networks Lab	C317	2.9	2.9	2.9		2.9				2.9				2.9	2.9	2.9
Advanced Communication Skills Lab	C318						2.9			2.9	2.9		2.9			3
Digital Signal Processing Lab	C326	2.9	2.9	2.9	2.9	2.9	2.9		2.9		2.9		2.9		2.9	2.9
E-CAD Lab	C327	2.8 8	2.8 8	2.8 8	2.8 8	2.8 8	2.8 8					2.8 8	2.8 8	2.8	2.8	2.8
Scripting Languages Lab	C328	2.8	2.8	2.8				2.8						2.8	2.8	
MW&OC Lab	C416	2.9 3		2.9 3				2.8 2							2.9	2.9
No. of lab courses mapped		18	16	16	8	15	12	2	2	7	4	10	11	13	19	16
Lab course average		2.6 4	2.5 7	2.6 5	2.4 6	2.6 5	2.5 6	2.8 1	2.7 5	2.2 7	2.6 5	2.4 9	2.5 3	2.3 7	2.4 3	2.6 0


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Colaba Nagar, Yeswanthapuram (VIII)
☎ 9849111111; 9849111111; 9849111111

Coordinator

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2020-21 PO/PSO DIRECT ATTAINMENTS

NAME OF THE COURSE	COURSE CODE	PO 1	PO 2	PO3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO1	PSO2	PSO 3
Electronic Devices and Circuits	C211	2.50	2.50	2.40	2.60	2.50	2.60			2.50	2.50	2.40		2.20	2.20	2.20
Network Analysis and Transmission Lines	C212	2.40	2.30	2.40			2.30			2.50			2.20	2.40	2.40	
Digital	C213	2.1	2.1	2.10	2.1	2.1								2.10	2.10	2.10


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Dangaon (Mdl), Dangaon (Dist)-506167.

System Design		0	0		0	0										
Signals and Systems	C214	2.0 0	2.0 0	2.10	1.9 0	2.1 0	2.0 0			2.1 0	2.0 0		1.9 0	2.00	2.00	
Probability Theory and Stochastic Processes	C215	2.4 0	2.4 0	2.40	2.5 0	2.4 0	2.4 0	2.4 0					2.4 0	2.40	2.40	
Electronic Devices and Circuits Lab	C216												2.9 0			2.90
DSD Lab	C217	2.8 9	2.9 0	2.92		2.9 0	2.9 0						2.9 0			2.90
Basic Simulation Lab	C218	3.0 0	2.0 0	2.00		2.8 0	2.0 0						2.0 0	3.00	3.00	3.00
Constitution of India	C219	2.6 0	2.6 0	2.60	2.6 0	2.6 0	2.6 0						2.6 0	2.6 0	2.60	2.60
Laplace Transforms, Numerical Method & Complex Variables	C221	2.2 0	2.2 0	2.20	2.2 0	2.2 0							2.2 0	2.20	2.00	2.00
Electromagnetic Fields and Waves	C222	2.1 2	2.1 1	2.12	2.1 4	2.1 6							2.1 1	2.10		2.00
Analog and Digital Communications	C223	2.1 0	2.1 0	2.10	2.1 0	2.1 0	2.1 0						2.1 0	2.10	2.10	2.10
Linear IC Applications	C224	2.1 0	2.1 0	2.10	2.1 0	2.1 0	2.1 0						2.1 0	2.10	2.10	2.10
Electronic Circuit Analysis	C225	2.5 0	2.5 0	2.50	2.5 0	2.5 0	2.4 0						2.5 0	2.10		2.10
Analog and Digital Communications Lab	C226	2.9 3	2.9 3	2.93		2.9 3				2.9 3				2.93	2.93	2.93
IC Applications Lab	C227	2.7 0	2.7 0	2.70	2.7 0	2.7 0	2.7 0						2.7 0	2.7 0		2.63
Electronic	C228	2.5	2.5	2.50	2.5	2.5	2.5						2.5	2.5	2.30	2.30


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Jangaon (Md), Jangaon (Dist-501001)

Circuit Analysis Lab		0	0		0	0	0				0	0				
Gender Sensitization Lab	C229	2.60	2.60	2.60	2.60	2.60	2.60				2.60	2.60	2.60	2.60	2.60	
Microprocessors & Microcontrollers	C311		2.00	1.90	1.80	1.90				2.00	2.00	1.90		2.20	2.40	
Data Communications and Networks	C312	2.30	2.20	2.20		2.30	2.20			2.30		2.30		2.20	2.30	
Control Systems	C313	2.30	2.40	2.20	2.80									2.30	2.20	2.10
Business Economics & Financial Analysis	C314	2.40	2.30		2.40		2.20	2.30				2.40	2.30		2.30	2.30
Professional Elective - I(EMI)	C315	2.10	2.00	1.50	2.14	2.16	2.05					2.11	2.10			2.00
Microprocessors & Microcontrollers Lab	C316	2.60	2.60	2.60	2.60	2.60	2.60					2.60	2.60	2.60	2.60	2.60
Data Communications and Networks Lab	C317	2.90	2.90	2.90		2.90				2.90				2.90	2.90	2.90
Advanced Communication Skills Lab	C318						2.90			2.90	2.90		2.90			3.00
Intellectual Property Rights	C319	2.60	2.60	2.60	2.60	2.60	2.60					2.60	2.60	2.60	2.60	2.60
Antennas and Propagation	C321	2.20	2.20			2.10				2.20		2.10		2.10	2.10	2.10
Digital Signal Processing	C322	2.10	2.10	2.10	2.10	2.50						2.10		2.10	2.10	2.10
VLSI	C323	2.4	2.4	2.47	2.4	2.4									2.45	2.46

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Colombo Nagar, Yeshwanthapuram (VIII)
Bangalore (M.D), Bangalore (Dist)-506167.

Design		7	6		6	8										
Professional Elective - II(ESD)	C324	2.60		2.60		2.50	2.60	2.60						2.60	2.60	
Open Elective - I(IM)	C325	1.62.4	2.40		2.50	2.20	2.30	2.20	1.60			2.30	1.90	2.40	2.40	2.20
Environmental Science	C329	2.40			2.50		2.40	2.40	2.40				2.40	2.40	2.40	2.40
Microwave and optical communication	C411	2.50	2.50	2.50	2.50		2.50								2.40	2.40
PE-III(DIP)	C412	2.50	2.50	2.50	2.50	2.50	2.50			2.50	2.50		2.40	2.50		2.40
PE-IV(BMI)	C413		2.40	2.40	2.50									2.40		
OE-II(POE)	C414	2.60	2.60	2.60	2.60	2.60				2.60						2.60
Professional practice, Law & Ethics	C415						2.80		2.84	2.89	2.88	2.79	2.88			2.86
MW&OC Lab	C416	2.93		2.93				2.82							2.90	2.90
PE-V(RS)	C421	2.00	1.80	1.20		1.80			1.00	1.50		2.00	1.50	2.30	2.50	
PE-VI(Low power VLSI Design)	C422	2.20	2.20	2.20			2.30								2.20	2.20
OE-III(DBMS)	C423	2.00	1.80	1.20		1.80			1.00	1.50		2.00	1.50	2.30		2.50
	AVG															

Coordinator

HOD


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 Christu Jyothi Institute of Technology &
 Colomto Nagar, Yeshwanthapur
 Jangaon(Mdl), Jangaon (Dist)-506111