



# Vidya Jyothi Institute of Technology

(An Autonomous Institution)

(Accredited by NAAC & NBA, Approved by AICTE New Delhi & Permanently Affiliated to JNTUH)  
Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

## Department of Information Technology

### CO – PO Mappings (R15)

Course name: English - I

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1		1					1	3		2		3
CO 2			2			2		3		2		3
CO 3		2	1		3					2		3
CO 4						2		3		2		3
CO 5		1						2		3	2	3
Avg		1.3	1.5		3	2	1	2.75		2.2	2	3

Course name: Mathematics-I

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	2	2	3	2	2						2
CO 2	2	2	2	3	2	3	2		2			2
CO 3	2	1	2		2	1	2					1
CO 4	2	2	2	----	2	2	2		2			2
CO 5	2	2	2	2	2	2	1					1
Avg	2.2	1.8	2	2.66	2	2	1.75		2			1.6

Course name: Engineering Physics-I

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	1	2	2	2							1	2
CO 2	3		2	1				1			1	2
CO 3	3		3	1			1	1				2
CO 4	2	1	2	1			1				1	2
CO 5	2	1	2	1							1	2
Avg	2.2	1.33	2.2	1.2			1	1			1	2

Course name: C Programming - I

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	2	2	2									
CO 2	3	3	3	3	2						1	1
CO 3	3	3	3	3							1	2
CO 4	3	3	3	3							1	2
CO 5	3	3	3	3							1	2
Avg	2.8	2.8	2.8	3	2						1	1.75

Course name: Engineering Chemistry

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	2	2		1	1	2				2	2
CO 2	3	2	2	2		1	2				2	2
CO 3	3				1	1	1				2	2
CO 4	3	2	2		2	2	3				3	3



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### CO – PO Mappings (R15)

CO 5	3		3			1					2	2
Avg	3	2	2.25	2	1.33	1.2	2				2.2	2.2

### Course name: Engineering Graphics

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3							3		3
CO 2	3	3	3						1	3		1
CO 3	3	3	3	3					1	3		1
CO 4	3	3	3	3	1				1	3		2
CO 5	3	3	3	3	1	1			1	3		1
Avg	3	3	3	3	1	1			1	3		1.6

### Course name: C Programming Lab - I

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	2	3	3	1								
CO 2	3	3	3	3	1	1						
CO 3	3	3	3	3								
CO 4	3	3	3	3	1	1					1	1
CO 5	3	3	3	3	1	1					1	1
Avg	2.8	3	3	2.6	1	1					1	1

### Course name: English Language Communication Skills Lab-I

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1										3		3
CO 2						1			2	3		3
CO 3		1				1			2	3		3
CO 4	1			2					2	3		3
CO 5						1		2	2	3		3
Avg	1	1		2		1		2	2	3		3

### Course name: Engineering Physics and Chemistry Lab

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	2	1	1				1			1		2
CO 2	2	1	1	1	1		1			1		2
CO 3	1		1				1			1		1
CO 4												
CO 5												
Avg	1.66	1	1	1	1		1			1		1.66





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### CO – PO Mappings (R15)

CO 4	3	3	3	3							1	2
CO 5	3	3	3	3							1	2
Avg	2.8	2.8	2.8	3	2						1	1.75

### Course name: Mathematics - III

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	3	3	2	-	-	1	1	2	2
CO 2	3	3	3	3	3	2	-	-	1	1	2	2
CO 3	3	3	3	3	3	2	-	-	1	1	2	2
CO 4	3	3	3	3	3	2	-	-	1	1	2	2
CO 5	3	3	3	3	3	2	-	-	1	1	2	2
Avg	3	3	3	3	3	2	-	-	1	1	2	2

### Course name: Basic Electrical Engineering

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3		2		2		1		2			1
CO 2	3	2	3	1	2		1		1			2
CO 3	2	2	3	3	2	3	1		3			2
CO 4	2	2	3	2	2	2	1		1			1
CO 5	2	2	1	1	2	2	1		2			1
Avg	2.4	2	2.4	1.75	2	2.3	1		1.8			1.4

### Course name: English Language Communication Skills Lab-II

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1		1						2		3	2	3
CO 2									3	3		2
CO 3									1	3	2	3
CO 4						1		3		2	2	3
CO 5										3		3
Avg		1				1		2.5	2	2.8	2	2.8

### Course name: Engineering Workshop

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	2	1	1		2		2	2		1
CO 2	3	3	2	1	1	1	2	2	2	2		1
CO 3	3	3	2	1	1		2		2	2		1
CO 4	3	3	2	1	1		2		2	2		1
CO 5	3	3	2	1	1	1	2	2	2	2		1
Avg	3	3	2	1	1	1	2	2	2	2		1



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### CO – PO Mappings (R15)

Course name: Probability and Statistics

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	2	2	1	1	1		2	1	2	3
CO 2	3	3	2	2	1	1	1		2	1	2	3
CO 3	3	3	3	2	1	1	2		1	2	3	2
CO 4	3	3	3	2	3	1	1		2	3	2	2
CO 5	3	3	3	2		1	2		1	2	2	2
Avg	3	3	2.6	2	1.5	1	1.4		1.6	1.8	2.2	2.4

Course name: Mathematical Foundation of Computer Science

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	3	2	2		1		1		3
CO 2	3	3	3	3	2	2		1		1		3
CO 3	3	3	3	3	2	3				1		3
CO 4	3	3	3	3	2	3				1		3
CO 5	3	3	3	3	2	2	2	1	2	1		3
Avg	3	3	3	3	2	2.5	2	1	2	1		3

Course name: Data Structures

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	3	3						2	1
CO 2	3	3	3	3	3						2	1
CO 3	3	3	3	3	3						2	1
CO 4	3	3	3	3	3						2	1
CO 5	3	3	3	3	3						2	1
Avg	3	3	3	3	3						2	1

Course name: Digital Logic Design

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	3	2	2		1		1		3
CO 2	3	3	3	3	2	2		1		1		3
CO 3	3	3	3	3	2	3				1		3



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CO 4	3	3	3	3	2	3				1		3
CO 5	3	3	3	3	2	2	2	1	2	1		3
Avg	3	3	3	3	2	2.5	2	1	2	1		3

### Course name: Object Oriented Programming

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	2	2	1	1	1	-	-	2	2
CO 2	3	3	3	2	2	-	-	1	1	2	2	2
CO 3	3	3	3	3	1	1	-	1	2	1	2	2
CO 4	3	3	2	2	2	-	-	1	1	1	2	2
CO 5	3	2	3	2	2	1	1	2	-	2	2	3
Avg	3	2.8	2.8	2.2	1.8	1	1	1.2	1.33	1.5	2	2.2

### Course name: Electronic Devices & Circuits

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	3	2	2		1		1		3
CO 2	3	3	3	3	2	2		1		1		3
CO 3	3	3	3	3	2	3				1		3
CO 4	3	3	3	3	2	3				1		3
CO 5	3	3	3	3	2	2	2	1	2	1		3
Avg	3	3	3	3	2	2.5	2	1	2	1		3

### Course name: Data Structures Lab

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	3	3	2			2	2	1	3
CO 2	3	3	3	3	3	2			2	2	1	3
CO 3	3	3	3	3	3	2			2	2	1	3
CO 4	3	3	3	3	3	2			2	2	1	3
CO 5	3	3	3	3	3	2			2	2	1	3
Avg	3	3	3	3	3	2			2	2	1	3



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### CO – PO Mappings (R15)

Course name: Electronic Devices & circuits and Digital Logic Design lab

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	3	2	2		1		1		3
CO 2	3	3	3	3	2	2		1		1		3
CO 3	3	3	3	3	2	3				1		3
CO 4	3	3	3	3	2	3				1		3
CO 5	3	3	3	3	2	2	2	1	2	1		3
Avg	3	3	3	3	2	2.5	2	1	2	1		3

Course name: Design and Analysis of Algorithms

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	-	2	2	-	-	-	-	3	-	3
CO 2	3	3	3	3	2	-	-	-	-	-	1	-
CO 3	3	3	3	3	2	2	-	-	-	-	1	-
CO 4	3	3	3	3	2	2	-	-	-	-	1	-
CO 5	3	3	3	-	-	-	1	-	-	-	2	-
Avg	3	3	3	2.75	2	2	1	-	-	3	1.25	3

Course name: Computer Organization

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	3	3	1	3	2	3	3	2	3
CO 2	2	3	3	3	3	1	2	1	2	2	2	2
CO 3	3	3	3	3	3	1	3	1	2	3	2	3
CO 4	3	3	3	3	3	1	3	1	3	3	2	3
CO 5	3	2	2	2	2	1	1	1	2	2	2	3
Avg	2.8	2.8	2.8	2.8	2.8	1	2.4	1.2	2.4	2.6	2	2.8

Course name: Database Management Systems

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	2	2	-	3	1	-	-	2	2
CO 2	3	3	3	2	2	-	-	1	1	2	3	2



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### CO – PO Mappings (R15)

CO 3	3	3	3	3	1	-	-	1	-	1	2	2
CO 4	3	3	3	2	2	-	-	1	1	2	3	2
CO 5	3	3	3	3	2	1	1	2	-	2	2	2
Avg	3	3	3	2.4	1.8	1	2	1.2	1	1.4	2.4	2

### Course name: Software Engineering

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	1	2	1	2	1	1	3	3	2	3
CO 2	3	2	3	3	2	1	1	2	3	3	2	3
CO 3	3	2	3	3	3	2	1	1	2	3	2	3
CO 4	3	2	3	2	3	2	2	2	2	3	2	3
CO 5	2	2	2	1	2			2	2	2	2	2
Avg	2.8	2.2	2.4	2.2	2.2	1.75	1.25	1.6	2.4	2.8	2	2.8

### Course name: Java Programming

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	3	3	2	1	1	3	1	1	2
CO 2	3	3	3	3	3	2	1	1	3	1	1	2
CO 3	3	3	3	3	3	2	1	1	3	2	1	2
CO 4	3	3	3	3	3	2	1	1	3	2	1	2
CO 5	3	3	3	3	3	2	1	1	3	2	1	2
Avg	3	3	3	3	3	2	1	1	3	1.6	1	2

### Course name: Environmental Science

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3		3	2			2	3		2
CO 2	3	3	3		3				2		2	2
CO 3	3	3	3	3	2			2	2	2	3	3
CO 4	3	3	3	3	3	2	2		2	2		2
CO 5	3	3	3		3	2	2		3	2	3	3
Avg	3	3	3	3	2.8	2	2	2	2.2	2.25	2.66	2.4





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## Department of Information Technology

### CO – PO Mappings (R15)

Course name: Java Programming Lab

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3		2		3				2		2	
CO 2	3	3	3	2	3				2		2	2
CO 3	3	3	3	2	3				2		2	2
CO 4	3	3	3	2	3				3		3	2
CO 5	3	3	3	2	3				3		3	2
Avg	3	3	2.8	2	3				2.4		2.4	2

Course name: Database Management Systems Lab

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3						2		2	2
CO 2	3	3	3			2	2		3		3	2
CO 3	3	3	3			2	2		3		3	2
CO 4	3	3	3			2	2		3		3	2
CO 5	3	3	3			2	2		3		3	2
Avg	3	3	3			2	2		2.8		2.8	2

Course name: MC1(Intellectual Property rights & Cyber laws)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1					3		2				2
CO2	1					3		2				2
CO3			1	2	2	3	2					
CO4					3							
CO5					2	3				2		
Avg	1		1	2	2.33	3	2	2		2		2



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### CO – PO Mappings (R15)

Course name: MC2 ( Professional Ethics, Human Values & Self Development)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1								3				3
CO2									3	3		3
CO3									3	3	2	2
CO4								2	2	3		3
CO5									3	2		
Avg								2.5	2.75	2.75	2	275

Course name: Linux Programming

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	2	2	2	-	3	1	-	-	2	2
CO 2	3	3	3	2	2	-	-	1	1	2	3	2
CO 3	3	3	3	3	1	-	-	1	-	1	2	2
CO 4	3	3	3	2	2	-	-	1	1	2	3	2
CO 5	3	3	3	3	2	1	1	2	-	2	2	2
Avg	3	3	2.8	2.4	1.8	1	2	1.2	1	1.75	2.4	2

Course name: Computer Networks

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	2	3	3	3	3	2	1	1	2	3	3	2
CO 2	2	3	3	3	3	2	3	1	3	3	3	2
CO 3	2	3	3	3	3	2	3	2	2	3	2	2
CO 4	2	3	3	3	3	2	1	1	2	3	2	2
CO 5	2	3	3	3	3	2	3	2	2	3	2	2
Avg	2	3	3	3	3	2	2.2	1.4	2.2	3	2.4	2

Course name: Operating systems

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	1	1	1					1		1	1
CO 2	3	3	2	2					1		1	1



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CO 3	3	1	1	2					1		1	1
CO 4	3	2	1	2					1		1	1
CO 5	3	3	1	2					1		1	1
Avg	3	2	1.2	1.8					1		1	1

### Course name: Cloud Computing

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	2							1		1	
CO 2	3	3		2				2	2		2	2
CO 3	3	3	3	2				2	2		3	2
CO 4	3	3		2				2	2		3	2
CO 5	3	3		2				2	2		3	2
	3	2.8	3	2				2	1.8		2.4	2

### Course name: Principles of Programming Languages

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3						2		1	
CO 2	3	3	3						2		1	2
CO 3	3	3	3	2					2		3	2
CO 4	3	3	3						2		2	2
CO 5	3	3	3						2		1	3
	3	3	3	2					2		1.8	2.25

### Course name: OE(IME)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	3	3	2	2		-		-			
CO2	2	3	3	2	2		-		-			
CO3	3	3	3	3	3		--					
CO4	3	3	3	3	3	3	2		2	2	2	3
CO5	3	3	3	3	2				2		2	3
Avg	2.75	3	3	2.75	2.6	3	2		2		2	3



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### CO – PO Mappings (R15)

Course name: OE(BEI)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	3	3	1	-	2	-	2	1	-	3
CO2	3	3	3	3	1	-	2	-	2	1	-	3
CO3	3	3	3	3	1	-	2	-	2	1	-	3
CO4	3	3	3	3	1	-	2	-	2	1	-	3
CO5	3	3	3	3	1	-	2	-	2	1	-	3
Avg	3	3	3	3	1	-	2	-	2	1	-	3

Course name: OE(Total Quality Management)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	1	3	2	2				3	3	2	3
CO2			3	3	2				3		1	3
CO3	2		2	2	2	1			3			3
CO4			2			3	3	1	3	2		3
Avg	2	1	2.5	2.33	2	2	3	1	3	2.5	1.5	3

Course name: Operating Systems & Computer Networks Lab

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	3	3	3	2	2	2	1	2	2
CO 2	3	3	3	3	3	3	2	2	2	1	2	2
CO 3	3	3	3	3	2	2	2	2	2	1	2	2
CO 4	3	3	3	3	3	3	2	2	2	1	2	2
CO 5	3	3	3	3	2	2	2	2	2	1	2	2
CO 6	3	3	3	3	3	3	2	2	2	1	2	2
Avg	3	3	3	3	3	3	2	2	2	1	2	2

Course name: Advanced Communication Skills Lab

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2		1		1	3	2		3	3	1	1
CO2	2	2	1	2	2	3	2		1	2	1	2



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## Department of Information Technology

### CO – PO Mappings (R15)

CO3	2	2	1	2	3	3	1		2	3	2	2
CO4		1	2	1	2	1	3	1	3	3	3	1
CO5		1	1		1	1		2	3	2	2	1
AVG	2	1.5	1.2	1.66	1.8	2.2	2	2.5	2.4	2.6	1.8	1.4

### Course name: PDBS

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1								2		3		3
CO2									2	3		3
CO3									3	3	1	3
CO4									1	3		2
CO5									1	3	1	2
AVG								2	1.75	3	1	2.6

### Course name: Web Technologies

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3		3		3	2	2	1	2		3	2
CO 2	3	1	3		2						2	2
CO 3	3	3	3		3	2	3	2	3	2	3	3
CO 4	3	2	3	3	2	3	3	1	2	2	3	3
CO 5	3	2	3	2	2	3	2	1	2	2	3	3
Avg	3	2	3	2.5	2.4	2.5	2.5	1.25	2.25	2	2.8	2.6

### Course name: Automata & Compiler Design

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3		2					2			2
CO 2	3	3		2					2			2
CO 3	3	2		1					2			2
CO 4	3	2		1					2			2
CO 5	3	2	2	2					2			2
	3	2.4	2	1.6					2			2



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### CO – PO Mappings (R15)

Course name: Data Warehousing and Data Mining

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	3	3	2	2	2	2	2	2	2
CO 2	3	3	3	3	3	2	2	1	2	2	2	2
CO 3	3	3	3	3	3	3	2	2	2	2	2	2
CO 4	3	3	3	3	3	3	2	2	2	2	2	2
CO 5	3	3	3	3	3	3	2	2	2	2	2	2
Avg	3	3	3	3	3	2.6	2	1.8	2	2	2	2

Course name: Managerial Economics and Financial Analysis

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1		1	3	1		2	2				3	3
CO2			3	3	2		2	2	3		3	3
CO3			3			3	2	2	1		3	1
CO4											3	3
CO5											3	3
Avg		1	3	2	2	2.5	2	2	2		3	2.6

Course name: Object Oriented Analysis And Design

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	2	3	3	3	3	1	1	2	2	3	3	3
CO 2	2	3	3	3	3	2	1	1	3	3	3	3
CO 3	2	3	3	3	3	1	2	2	2	3	2	3
CO 4	2	3	3	3	3	2	2	2	2	3	2	3
CO 5	2	3	3	3	3	2	2	2	2	3	2	3
Avg	2	3	3	3	3	1.6	1.6	1.8	2.2	3	2.4	3

Course name: OE (PRINCIPLES OF COMMUNICATIONS)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	3	-	3	-	3	-	3	3	-	3
CO2	3	3	3	-	3	-	3	-	3	3	-	3
CO3	3	3	3	-	3	-	3	-	3	3	-	3



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## Department of Information Technology

### CO – PO Mappings (R15)

CO4	3	3	3	-	3	-	3	--	3	3	-	3
CO5	3	3	3	--	3	-	3	-	3	3	-	3
Avg	3	3	3	-	3	-	3	-	3	3	-	3

### Course name: OE (Fundamentals of Embedded systems)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	3	3	3	-	3		3	3		3
CO2	3	3	3	3	3	-	3		3	3		3
CO3	3	3	3	3	3		3		3	3		3
CO4	3	3	3	3	3		3		3	3		3
CO5	3	3	3	3	3		3		3	3		3
Avg	3	3	3	3	3		3		3	3		3

### Course name: OE(Financial Institutions & Markets)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1										2	3	
CO2										2	3	
CO3										2	3	
CO4					3					2	3	3
Avg					3					2	3	3

### Course name: Web Technologies Lab

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3		3	2		2	2		3	2
CO 2	3	3	3		3				2		2	2
CO 3	3	3	3		3	3		2	3		3	2
Avg	3	3	3		3	2.5		2	2.33		2.6	2

### Course name: Data Mining and Case Tools lab

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3			3	3		2	2		2	2
CO 2	3	3	3	3	3	3		2	2		3	2
Avg	3	3	3	3	3	3		2	2		2.5	2







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## Department of Information Technology

### CO – PO Mappings (R15)

CO 5	3	3	3	2	2	3	2	2	2	1	2	3
Avg	3	3	2.6	2.5	2.7	2.8	2.4	2.2	2.2	2	2.1	2.2

### Course name: Software Testing Methodologies

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	2	1	2	-	-	-	1	2	1	2	2
CO 2	3	3	3	3	3	-	-	1	2	1	3	2
CO 3	3	2	3	3	3	-	-	1	2	1	3	2
CO 4	3	3	3	3	3	-	-	1	2	1	3	2
CO 5	3	2	3	3	3	-	-	1	2	1	3	2
Avg	3	2.4	2.6	2.8	3	-	-	1	2	1	3	2

### Course name: Big Data Analytics

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	1	1	1	1	1			1			1
CO 2	3	2	2		3							1
CO 3	2	3	3	2	3	2	1	1	2	1	1	2
CO 4	3	1	1	1	3	1						
CO 5	2	2	2		3				1	1	1	2
Avg	2.6	1.8	1.8	1.3	2.6	1.3	1	1	1.3	1	1	1.5

### Course name: Advanced Databases

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	1	1	1	1	1		-	1		1	1
CO 2	3	1	3	1	2			-	1		1	1
CO 3	3	2	1	2	1	2	1	1	1	1	2	1
CO 4	3	2	1	2	2	1		-			1	
CO 5	3	3	2	2	1			1	2	1	1	1
Avg	3	1.8	1.6	1.6	1.4	1.3	1	1	1.2	1	1.2	1



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## Department of Information Technology

### CO – PO Mappings (R15)

Course name: OE (INTRODUCTION TO MATLAB)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	3									
CO2	3	2		2	3		2					
CO3	2	3	3	3	3							
CO4		3	2	2	3					2		2
CO5	2	2	3	3								
Avg	2	2.6	2.2	2	1.8	-	2	-	-	2	-	2

Course name: OE(Fundamentals of Entrepreneurship)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1											2	2
CO2		3	3		3	2	3				3	3
CO3						2						3
CO4							2				3	3
Avg		3	3		3	3	2.5				3.67	2.75

Course name: Hadoop & Big Data Lab

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	3	3	3	3	2	3	3	2	2
CO 2	3	3	3	3	3	3	3	2	3	3	2	3
CO 3	3	3	3	3	3	3	3	2	3	3	3	3
CO 4	3	3	3	3	3	3	3	2	3	3	3	3
CO 5	3	3	3	3	3	3	3	2	2	3	3	3
Avg	3	3	3	3	3	3	3	2	2.8	3	2.6	2.8

Course name: MAD Lab

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	1	1	3	-	-	-	2	-	2	1
CO 2	3	3	3	2	3	1	-	-	2	-	2	1
CO 3	3	3	3	2	3	1	1	1	2	-	2	1



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## Department of Information Technology

### CO – PO Mappings (R15)

Avg	3	3	2.33	1.67	3	1	1	1	2	-	2	1
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#### Course name: Mini Project

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	2	3	-	2	2	2	3	3	3	2
CO 2	3	3	3	3	3	2	2	2	3	3	3	2
CO 3	-	-	-	-	-	2	2	2	3	3	3	2
CO 4	-	-	-	-	3	2	2	2	3	2	3	2
Avg	3	3	2.5	3	3	2	2	2	3	2.75	3	2

#### Course name: Design Patterns

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	1	1	1	1	1		-	1		1	1
CO 2	3	1	3	1	2			-	1		1	1
CO 3	3	2	1	2	1	2	1	1	1	1	2	1
CO 4	3	2	1	2	2	1		-			1	
CO 5	3	3	2	2	1			1	2	1	1	1
Avg	3	1.8	1.6	1.6	1.4	1.3	1	1	1.2	1	1.2	1

#### Course name: E-Commerce

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	1	-	2	-	-	-	-	-	-	-	-
CO 2	2	1	-	2	-	-	-	-	1	-	2	2
CO 3	-	2	3	2	-	-	-	-	-	-	-	-
CO 4	-	2	-	3	-	-	1	2	-	-	-	-
CO 5	-	3	-	-	2	1	-	-	-	-	-	2
Avg	2.5	1.8	3	2.25	2	1	1	2	1	-	2	2

#### Course name: Semantic Web and Social Networks

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	1	1	1	1	1		-	1		1	1
CO 2	3	1	3	1	2			-	1		1	1
CO 3	3	2	3	2	1	2	1	1	1	1	2	1



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## Department of Information Technology

### CO – PO Mappings (R15)

CO 4	3	2	1	2	2	1		-			1	
CO 5	3	3	2	2	3			1	2	3	1	1
Avg	3	1.8	1.6	1.6	1.4	1.3	1	1	1.2	2	1.2	1

### Course name: Technical Seminar

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	-	-	-	-	-	-	-	-	3	3	2	-
CO 2	-	-	-	-	-	-	-	-	3	3	2	-
CO 3	-	-	-	-	-	-	-	-	3	3	2	-
CO 4	-	-	-	-	-	-	-	-	3	3	2	-
CO 5	3	2	1	1	3	2	2	2	3	3	2	2
Avg	3	2	1	1	3	2	2	2	3	3	2	2

### Course name: Comprehensive Viva-Voce

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	-	-	-	-	-	-	-	-	3	3	3	-
CO 2	3	2	2	1	-	2	2	1	3	3	3	2
Avg	3	2	2	1	-	2	2	1	3	3	3	2

### Course name: Major Project

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	2	3	-	2	2	2	3	3	3	2
CO 2	3	3	3	3	3	2	2	2	3	3	3	2
CO 3	-	-	-	-	-	2	2	2	3	3	3	2
CO 4	-	-	-	-	3	2	2	2	3	2	3	2



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## Department of Information Technology

### CO – PSO Mappings (R15)

#### Course name: Probability and Statistics

	PSO1	PSO2
<b>CO1</b>	2	1
<b>CO2</b>	2	1
<b>CO3</b>	2	1
<b>CO4</b>	2	1
<b>CO5</b>	2	1
<b>AVG</b>	2	1

#### Course name: Mathematical Foundation of Computer Science

	PSO1	PSO2
<b>CO1</b>	3	3
<b>CO2</b>	3	3
<b>CO3</b>	3	3
<b>CO4</b>	3	3
<b>CO5</b>	3	3
<b>AVG</b>	3	3

#### Course name: Data Structures

	PSO1	PSO2
<b>CO1</b>	3	3
<b>CO2</b>	3	3
<b>CO3</b>	3	3
<b>CO4</b>	3	3
<b>CO5</b>	3	3
<b>AVG</b>	3	3

#### Course name: Digital Logic Design

	PSO1	PSO2
<b>CO1</b>	3	2
<b>CO2</b>	3	2
<b>CO3</b>	3	2
<b>CO4</b>	3	2
<b>CO5</b>	3	2
<b>AVG</b>	3	2

#### Course name: Object Oriented Programming

	PSO1	PSO2
<b>CO1</b>	3	2
<b>CO2</b>	3	3
<b>CO3</b>	3	2
<b>CO4</b>	3	3
<b>CO5</b>	3	3
<b>AVG</b>	<b>3</b>	<b>3</b>



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## Department of Information Technology

### CO – PSO Mappings (R15)

#### Course name: Electronic Devices & Circuits

	PSO1	PSO2
CO1	3	3
CO2	3	3
CO3	3	3
CO4	3	3
CO5	3	3
AVG	3	3

#### Course name: Data Structures Lab

	PSO1	PSO2
<b>CO1</b>	3	3
<b>CO2</b>	3	3
<b>CO3</b>	3	3
<b>CO4</b>	3	3
<b>CO5</b>	3	3
<b>AVG</b>	3	3

#### Course name: Electronic Devices & circuits and Digital Logic Design lab

	PSO1	PSO2
CO1	3	2
CO2	3	2
CO3	3	2
CO4	3	2
CO5	3	2
AVG	3	2

#### Course name: Design and Analysis of Algorithms

	PSO1	PSO2
CO1	3	2
CO2	3	2
CO3	3	2
CO4	3	2
CO5	3	2
AVG	3	2

#### Course name: Computer Organization

	PSO1	PSO2
CO1	3	3
CO2	2	2
CO3	3	3
CO4	3	3
CO5	3	3
AVG	3	3



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## Department of Information Technology

### CO – PSO Mappings (R15)

#### Course name: Database Management Systems

	PSO1	PSO2
CO1	3	2
CO2	3	3
CO3	3	2
CO4	3	3
CO5	3	3
AVG	3	2.6

#### Course name: Software Engineering

	PSO1	PSO2
CO1	3	3
CO2	3	2
CO3	2	3
CO4	3	3
CO5	3	3
AVG	3	2.8

#### Course name: Java Programming

	PSO1	PSO2
CO1	3	2
CO2	3	2
CO3	3	2
CO4	3	2
CO5	3	2
AVG	<b>3</b>	<b>2</b>

#### Course name: Environmental Science

	PSO1	PSO2
CO1	2	2
CO2	2	2
CO3	2	2
CO4	2	2
CO5	2	2
AVG	2	2

#### Course name: Java Programming Lab

	PSO1	PSO2
CO1	3	3
CO2	3	3
CO3	3	3
CO4	3	3
CO5	3	3



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## Department of Information Technology

### CO – PSO Mappings (R15)

#### Course name: Database Management Systems Lab

	PSO1	PSO2
CO1	3	3
CO2	3	3
CO3	3	3
CO4	3	3
CO5	3	3

#### Course name: Linux Programming

	PSO1	PSO2
CO1	3	2
CO2	3	2
CO3	3	2
CO4	3	2
CO5	3	2
AVG	3	2

#### Course name: Computer Networks

	PSO1	PSO2
CO1	3	2
CO2	3	2
CO3	3	2
CO4	3	2
CO5	3	2
AVG	3	2

#### Course name: Operating systems

	PSO1	PSO2
CO1	3	3
CO2	3	3
CO3	3	3
CO4	3	3
CO5	3	3
AVG	3	3

#### Course name: Cloud Computing

	PSO1	PSO2
CO1	3	3
CO2	3	3
CO3	3	3
CO4	3	3
CO5	3	3
AVG	3	3





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## Department of Information Technology

### CO – PSO Mappings (R15)

#### Course name: Principles of Programming Languages

	PSO1	PSO2
CO1	3	3
CO2	3	3
CO3	3	3
CO4	3	3
CO5	3	3
AVG	3	3

#### Course name: Operating Systems & Computer Networks Lab

	PSO1	PSO2
CO1	3	3
CO2	3	3
CO3	3	3
CO4	3	3
CO5	3	3
AVG	3	3

#### Course name: Advanced Communication Skills Lab

	PSO1	PSO2
CO1		2
CO2		3
CO3	1	2
CO4		3
CO5		2
AVG	1	2.2

#### Course name: Web Technologies

	PSO1	PSO2
CO1	3	3
CO2	3	3
CO3	3	3
CO4	3	3
CO5	3	3
AVG	3	3

#### Course name: Automata & Compiler Design

	PSO1	PSO2
CO1	3	3
CO2	3	3
CO3	3	3
CO4	3	3
CO5	3	3
AVG	3	3



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## Department of Information Technology

### CO – PSO Mappings (R15)

#### Course name: Data Warehousing and Data Mining

	PSO1	PSO2
CO1	3	2
CO2	3	2
CO3	3	2
CO4	3	2
CO5	3	2
AVG	3	2

#### Course name: Managerial Economics and Financial Analysis

	PSO1	PSO2
CO1	2	2
CO2		
CO3		2
CO4		2
CO5		
AVG	2	2

#### Course name: Object Oriented Analysis And Design

	PSO1	PSO2
CO1	3	2
CO2	3	2
CO3	3	2
CO4	3	2
CO5	3	2
AVG	3	2

#### Course name: Web Technologies Lab

	PSO1	PSO2
CO1	3	3
CO2	3	3
CO3	3	3
AVG	3	3

#### Course name: Data Mining and case tools lab

	PSO1	PSO2
CO1	3	3
CO2	3	3
AVG	3	3

#### Course name: Mobile Application Development

	PSO1	PSO2
CO1	3	3
CO2	3	3
CO3	3	3



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## Department of Information Technology

### CO – PSO Mappings (R15)

<b>CO4</b>	3	3
<b>CO5</b>	3	3
<b>AVG</b>	3	3

### Course name: Information Security

	PSO1	PSO2
<b>CO1</b>	3	3
<b>CO2</b>	3	3
<b>CO3</b>	3	3
<b>CO4</b>	3	3
<b>CO5</b>	3	3
<b>AVG</b>	3	3

### Course name: Software Testing Methodologies

	PSO1	PSO2
<b>CO1</b>	3	3
<b>CO2</b>	3	3
<b>CO3</b>	3	3
<b>CO4</b>	3	3
<b>CO5</b>	3	3
<b>AVG</b>	3	3

### Course name: Big Data Analytics

	PSO1	PSO2
<b>CO1</b>	3	3
<b>CO2</b>	3	3
<b>CO3</b>	3	3
<b>CO4</b>	3	3
<b>CO5</b>	3	3
<b>AVG</b>	3	3

### Course name: Advanced Databases

	PSO1	PSO2
<b>CO1</b>	3	3
<b>CO2</b>	3	3
<b>CO3</b>	3	3
<b>CO4</b>	3	3
<b>CO5</b>	3	3
<b>AVG</b>	3	3

### Course name: Hadoop & Big Data Lab

	PSO1	PSO2
<b>CO1</b>	3	3
<b>CO2</b>	3	3
<b>CO3</b>	3	3
<b>CO4</b>	3	3



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## Department of Information Technology

### CO – PSO Mappings (R15)

<b>CO5</b>	3	3
<b>AVG</b>	3	3

### Course name: MAD Lab

	PSO1	PSO2
<b>CO1</b>	3	3
<b>CO2</b>	3	3
<b>CO3</b>	3	3
<b>AVG</b>	3	3

### Course name: Mini Project

	PSO1	PSO2
<b>CO1</b>	3	3
<b>CO2</b>	3	3
<b>CO3</b>	3	3
<b>CO4</b>	3	3
<b>AVG</b>	3	3

### Course name: Design Patterns

	PSO1	PSO2
<b>CO1</b>	3	3
<b>CO2</b>	3	3
<b>CO3</b>	3	3
<b>CO4</b>	3	3
<b>CO5</b>	3	3
<b>AVG</b>	3	3

### Course name: E-Commerce

	PSO1	PSO2
<b>CO1</b>	2	2
<b>CO2</b>	2	2
<b>CO3</b>	2	2
<b>CO4</b>	2	2
<b>CO5</b>	2	2
<b>AVG</b>	2	2

### Course name: Semantic Web and Social Networks

	PSO1	PSO2
<b>CO1</b>	3	3
<b>CO2</b>	3	3
<b>CO3</b>	3	3
<b>CO4</b>	3	3
<b>CO5</b>	3	3
<b>AVG</b>	3	3



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## Department of Information Technology

### CO – PSO Mappings (R15)

#### Course name: Technical Seminar

	PSO1	PSO2
<b>CO1</b>	3	3
<b>CO2</b>	3	3
<b>CO3</b>	3	3
<b>CO4</b>	3	3
<b>CO5</b>	3	3
<b>AVG</b>	3	3

#### Course name: Comprehensive Viva-Voce

	PSO1	PSO2
<b>CO1</b>	3	3
<b>CO2</b>	3	3
<b>AVG</b>	3	3

#### Course name: Major Project

	PSO1	PSO2
<b>CO1</b>	3	3
<b>CO2</b>	3	3
<b>CO3</b>	3	3
<b>CO4</b>	3	3
<b>AVG</b>	3	3



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## Department of Information Technology

### CO – PO Mappings (R18)

Course name: Mathematics-I

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	3	3	2	-	-	1	1	2	2
CO 2	3	3	3	3	3	2	-	-	1	1	2	2
CO 3	3	3	3	3	3	2	-	-	1	1	2	2
CO 4	3	3	3	3	3	2	-	-	1	1	2	2
CO 5	3	3	3	3	3	2	-	-	1	1	2	2
Avg	3	3	3	3	3	2	-	-	1	1	2	2

Course name: Applied Physics

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	2	2	2	3	2	2	2		2	2	1	3
CO 2	2	3	3	3	2	3	3	2	3	3	2	3
CO 3	3	2	2	2	2	2	3	1	2	3	1	3
CO 4	2	2	2	3	3	2	2		2	3	2	3
CO 5	3	3	2	3	2	3	2		3	3	2	3
Avg	2.4	2.4	2.2	2.8	2.2	2.4	2.4	1.5	2.4	2.8	1.6	3

Course name: Applied Physics Lab

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	2	3	3	2	3	2	1	2	2	2	3
CO 2	2	2	2	2	2	2	2	1	2	2	2	3
CO 3	2	2	2	2	2	1	1	1	1	1	1	2
CO 4	3	2	3	3	2	3	3	2	3	3	2	3
CO 5	2	3	3	3	2	1	2	2	2	2	2	2
Avg	2.4	2.2	2.6	2.6	2	2	2	1.4	2	2	1.8	2.6

Course name: Basic Electrical Engineering

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3		2		2		1		2			1
CO 2	3	2	3	1	2		1		1			2
CO 3	2	2	3	3	2	3	1		3			2
CO 4	2	2	3	2	2	2	1		1			1
CO 5	2	2	1	1	2	2	1		2			1
Avg	2.4	2	2.4	1.75	2	2.3	1		1.8			1.4

Course name: Basic Electrical Engineering Lab

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3		2		2		1		2			1
CO 2	3	2	3	1	2		1		1			2
CO 3	2	2	3	3	2	3	1		3			2
CO 4	2	2	3	2	2	2	1		1			1



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## Department of Information Technology

### CO – PO Mappings (R18)

CO 5	2	2	1	1	2	2	1		2			1
Avg	2.4	2	2.4	1.75	2	2.3	1		1.8			1.4

### Course name: Engineering Workshop

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	1	1	3	1	1	3			1	2		
CO 2	2	1	3	1	1	3			1	2		
CO 3	2	1	3	1	3	3			1	2		
Avg	1.67	1	3	1	1.67	3	-	-	1	2	-	-

### Course name: English Language Communication Skills Lab

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1										3		3
CO 2										3		3
CO 3								3	2	3	1	3
CO 4								3	3	3	1	3
CO 5								3	3	3	1	3
Avg								3	2.67	3	1	3

### Course name: Programming for Problem Solving- I

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	3	2	1	-	2	3	3	1	3
CO 2	3	3	3	3	2	1	-	2	3	3	1	3
CO 3	3	3	3	3	2	1	-	2	3	3	1	3
CO 4	3	3	3	3	2	1	-	2	3	3	1	3
CO 5	3	3	3	3	2	1	-	2	3	3	1	3
Avg	3	3	3	3	2	1	-	2	3	3	1	3

### Course name: Programming for Problem Solving Lab- I

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	3	2	1			3			3
CO 2	3	3	3		2	1		2	3	3	1	3
CO 3	3	3	3	3	2					3		3
CO 4	3	3	3	3	2	1		2	3		1	3
CO 5	3	3	3	3		1				3		
Avg	3	3	3	3	2	1		2	3	3	1	3

### Course name: Mathematics - II

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	3	3	2	-	-	1	1	2	2
CO 2	3	3	3	3	3	2	-	-	1	1	2	2
CO 3	3	3	3	3	3	2	-	-	1	1	2	2



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## Department of Information Technology

### CO – PO Mappings (R18)

CO 4	3	3	3	3	3	2	-	-	1	1	2	2
CO 5	3	3	3	3	3	2	-	-	1	1	2	2
Avg	3	3	3	3	3	2	-	-	1	1	2	2

### Course name: Chemistry

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	2			2	1				1		2
CO 2	3	3	2	2	2	3	2	2		2		3
CO 3	3	3	2	2	2	3	2	2		2		3
CO 4	3	1				2				1		1
CO 5	3	2	2	2	2	3	2	2		2		3
Avg	3	2.2	2	2	2	2.4	2	2		1.6		2.4

### Course name: Chemistry Lab

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	2		1	2		2	1	1	1		2
CO 2	3		1	2		2	3	1		1		3
CO 3	3	2		1	2	2	1	2	1	1		2
CO 4	3	2	1	2	2	2		1				2
CO 5	3	2	1	2	2	2	1	1	1			3
Avg	3	2	1	1.67	2	2	1.75	1.2	1	1		2.4

### Course name: English

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1								3		3		3
CO 2										3		3
CO 3								1		3		3
CO 4										3		3
CO 5								2	2	3	1	3
Avg	-	-	-	-	-	-	-	2	2	3	1	3

### Course name: English Communication Skills Lab

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1								2	3	3		3
CO 2									2	3		3
CO 3								2	2	3	1	3
CO 4								2		3	1	3
CO 5								2	1	3	1	3
Avg								2	2	3	1	3





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## Department of Information Technology

### CO – PO Mappings (R18)

Course name: Programming for Problem Solving - II

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	3	2	1	-	2	3	3	1	3
CO 2	3	3	3	3	2	1	-	2	3	3	1	3
CO 3	3	3	3	3	2	1	-	2	3	3	1	3
CO 4	3	3	3	3	2	1	-	2	3	3	1	3
CO 5	3	3	3	3	2	1	-	2	3	3	1	3
Avg	3	3	3	3	2	1	-	2	3	3	1	3

Course name: Programming for Problem Solving Lab - II

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	3	2	1	-	2	3	3	1	3
CO 2	3	3	3	3	2	1	-	2	3	3	1	3
CO 3	3	3	3	3	2	1	-	2	3	3	1	3
CO 4	3	3	3	3	2	1	-	2	3	3	1	3
CO 5	3	3	3	3	2	1	-	2	3	3	1	3
Avg	3	3	3	3	2	1	-	2	3	3	1	3

Course name: Engineering Graphics and Modeling

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	2	2							2
CO 2	3	3	2	1	2							1
CO 3	3	3	3	2	3							2
CO 4	2	2	2	2	3	2						3
CO 5	2.75	2.75	2.5	1.75	2.5	2						2
Avg	3	3	3	2	2							2

Course name: Probability and Statistics

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	2	2	1	1	1		2	1	2	3
CO 2	3	3	2	2	1	1	1		2	1	2	3
CO 3	3	3	3	2	1	1	2		1	2	3	2
CO 4	3	3	3	2	3	1	1		2	3	2	2
CO 5	3	3	3	2		1	2		1	2	2	2
Avg	3	3	2.6	2	1.5	1	1.4		1.6	1.8	2.2	2.4



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## Department of Information Technology

### CO – PO Mappings (R18)

Course name: Digital Logic Design

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	3	2	2		1		1		3
CO 2	3	3	3	3	2	2		1		1		3
CO 3	3	3	3	3	2	3				1		3
CO 4	3	3	3	3	2	3				1		3
CO 5	3	3	3	3	2	2	2	1	2	1		3
Avg	3	3	3	3	2	2.5	2	1	2	1		3

Course name: Electronic Devices & Circuits

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	3	2	2		1		1		3
CO 2	3	3	3	3	2	2		1		1		3
CO 3	3	3	3	3	2	3				1		3
CO 4	3	3	3	3	2	3				1		3
CO 5	3	3	3	3	2	2	2	1	2	1		3
Avg	3	3	3	3	2	2.5	2	1	2	1		3

Course name: Data Structures

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	3	3						2	1
CO 2	3	3	3	3	3						2	1
CO 3	3	3	3	3	3						2	1
CO 4	3	3	3	3	3						2	1
CO 5	3	3	3	3	3						2	1
Avg	3	3	3	3	3						2	1

Course name: Mathematical Foundation of Computer Science

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	3	2	2		1		1		3
CO 2	3	3	3	3	2	2		1		1		3
CO 3	3	3	3	3	2	3				1		3



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## Department of Information Technology

### CO – PO Mappings (R18)

CO 4	3	3	3	3	2	3				1		3
CO 5	3	3	3	3	2	2	2	1	2	1		3
Avg	3	3	3	3	2	2.5	2	1	2	1		3

### Course name: Python Programming

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	-	-	3	2	2	1	1	1	-	-	2	2
CO 2	3	3	3	2		-	-	1	1	2	2	2
CO 3	3	3	3	3	1	1	-	1	2	1	2	2
CO 4	3	3	2	2	2	-	-	1	1	1	2	2
CO 5	3	2	3	2	2	1	1	2	-	2	2	3
Avg	3	2.8	2.8	2.2	1.8	1	1	1.2	1.33	1.5	2	2.2

### Course name: Data Structures and Python Programming Lab

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	3	3	2			2	2	1	3
CO 2	3	3	3	3	3	2			2	2	1	3
CO 3	3	3	3	3	3	2			2	2	1	3
CO 4	3	3	3	3	3	2			2	2	1	3
CO 5	3	3	3	3	3	2			2	2	1	3
Avg	3	3	3	3	3	2			2	2	1	3

### Course name: Electronic Devices & circuits and Digital Logic Design lab

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	3	2	2		1		1		3
CO 2	3	3	3	3	2	2		1		1		3
CO 3	3	3	3	3	2	3				1		3
CO 4	3	3	3	3	2	3				1		3
CO 5	3	3	3	3	2	2	2	1	2	1		3
Avg	3	3	3	3	2	2.5	2	1	2	1		3



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## Department of Information Technology

### CO – PO Mappings (R18)

Course name: Design and Analysis of Algorithms

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	-	2	2	-	-	-	-	3	-	3
CO 2	3	3	3	3	2	-	-	-	-	-	1	-
CO 3	3	3	3	3	2	2	-	-	-	-	1	-
CO 4	3	3	3	3	2	2	-	-	-	-	1	-
CO 5	3	3	3	-	-	-	1	-	-	-	2	-
Avg	3	3	3	2.75	2	2	1	-	-	3	1.25	3

Course name: Computer Organization

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	3	3	1	3	2	3	3	2	3
CO 2	2	3	3	3	3	1	2	1	2	2	2	2
CO 3	3	3	3	3	3	1	3	1	2	3	2	3
CO 4	3	3	3	3	3	1	3	1	3	3	2	3
CO 5	3	2	2	2	2	1	1	1	2	2	2	3
Avg	2.8	2.8	2.8	2.8	2.8	1	2.4	1.2	2.4	2.6	2	2.8

Course name: Environmental Science

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3		3	2			2	3		2
CO 2	3	3	3		3				2		2	2
CO 3	3	3	3	3	2			2	2	2	3	3
CO 4	3	3	3	3	3	2	2		2	2		2
CO 5	3	3	3		3	2	2		3	2	3	3
Avg	3	3	3	3	2.8	2	2	2	2.2	2.25	2.66	2.4

Course name: Java Programming

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	3	3	2	1	1	3	1	1	2
CO 2	3	3	3	3	3	2	1	1	3	1	1	2
CO 3	3	3	3	3	3	2	1	1	3	2	1	2



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## Department of Information Technology

### CO – PO Mappings (R18)

CO 4	3	3	3	3	3	2	1	1	3	2	1	2
CO 5	3	3	3	3	3	2	1	1	3	2	1	2
Avg	3	3	3	3	3	2	1	1	3	1.6	1	2

### Course name: Software Engineering

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	1	2	1	2	1	1	3	3	2	3
CO 2	3	2	3	3	2	1	1	2	3	3	2	3
CO 3	3	2	3	3	3	2	1	1	2	3	2	3
CO 4	3	2	3	2	3	2	2	2	2	3	2	3
CO 5	2	2	2	1	2			2	2	2	2	2
Avg	2.8	2.2	2.4	2.2	2.2	1.75	1.25	1.6	2.4	2.8	2	2.8

### Course name: Database Management Systems

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	2	2	-	3	1	-	-	2	2
CO 2	3	3	3	2	2	-	-	1	1	2	3	2
CO 3	3	3	3	3	1	-	-	1	-	1	2	2
CO 4	3	3	3	2	2	-	-	1	1	2	3	2
CO 5	3	3	3	3	2	1	1	2	-	2	2	2
Avg	3	3	3	2.4	1.8	1	2	1.2	1	1.4	2.4	2

### Course name: Java Programming Lab

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3		2		3				2		2	
CO 2	3	3	3	2	3				2		2	2
CO 3	3	3	3	2	3				2		2	2
CO 4	3	3	3	2	3				3		3	2
CO 5	3	3	3	2	3				3		3	2
AVG	3	3	2.8	2	3				2.4		2.4	2



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### CO – PO Mappings (R18)

Course name: Database Management Systems Lab

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3						2		2	2
CO 2	3	3	3			2	2		3		3	2
CO 3	3	3	3			2	2		3		3	2
CO 4	3	3	3			2	2		3		3	2
CO 5	3	3	3			2	2		3		3	2
AVG	3	3	3			2	2		2.8		2.8	2

Course name: Formal Languages and Automata Theory

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	2	2	2	-	3	1	-	-	2	2
CO 2	3	3	3	2	2	-	-	1	1	2	3	2
CO 3	3	3	3	3	1	-	-	1	-	1	2	2
CO 4	3	3	3	2	2	-	-	1	1	2	3	2
CO 5	3	3	3	3	2	1	1	2	-	2	2	2
Avg	3	3	2.8	2.4	1.8	1	2	1.2	1	1.75	2.4	2

Course name: Computer Networks

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	2	3	3	3	3	2	1	1	2	3	3	2
CO 2	2	3	3	3	3	2	3	1	3	3	3	2
CO 3	2	3	3	3	3	2	3	2	2	3	2	2
CO 4	2	3	3	3	3	2	1	1	2	3	2	2
CO 5	2	3	3	3	3	2	3	2	2	3	2	2
Avg	2	3	3	3	3	2	2.2	1.4	2.2	3	2.4	2

Course name: Operating systems

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	1	1	1					1		1	1
CO 2	3	3	2	2					1		1	1
CO 3	3	1	1	2					1		1	1



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## Department of Information Technology

### CO – PO Mappings (R18)

CO 4	3	2	1	2					1		1	1
CO 5	3	3	1	2					1		1	1
Avg	3	2	1.2	1.8					1		1	1

### Course name: Managerial Economics and Financial Analysis

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1		1	3	1		2	2				3	3
CO2			3	3	2		2	2	3		3	3
CO3			3			3	2	2	1		3	1
CO4											3	3
CO5											3	3
Avg		1	3	2	2	2.5	2	2	2		3	2.6

### Course name: Cloud Computing - PE1

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	2							1		1	
CO 2	3	3		2				2	2		2	2
CO 3	3	3	3	2				2	2		3	2
CO 4	3	3		2				2	2		3	2
CO 5	3	3		2				2	2		3	2
Avg	3	2.8	3	2				2	1.8		2.4	2

### Course name: Linux Programming – PE1

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	2	2	2	-	3	1	-	-	2	2
CO 2	3	3	3	2	2	-	-	1	1	2	3	2
CO 3	3	3	3	3	1	-	-	1	-	1	2	2
CO 4	3	3	3	2	2	-	-	1	1	2	3	2
CO 5	3	3	3	3	2	1	1	2	-	2	2	2
Avg	3	3	2.8	2.4	1.8	1	2	1.2	1	1.75	2.4	2



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## Department of Information Technology

### CO – PO Mappings (R18)

Course name: Software Project Management – PE1

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	2	2	2	-	3	1	-	-	2	2
CO 2	3	3	3	2	2	-	-	1	1	2	3	2
CO 3	3	3	3	3	1	-	-	1	-	1	2	2
CO 4	3	3	3	2	2	-	-	1	1	2	3	2
CO 5	3	3	3	3	2	1	1	2	-	2	2	2
Avg	3	3	2.8	2.4	1.8	1	2	1.2	1	1.75	2.4	2

Course name: Computer Graphics – PE1

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	2	2	2	-	3	1	-	-	2	2
CO 2	3	3	3	2	2	-	-	1	1	2	3	2
CO 3	3	3	3	3	1	-	-	1	-	1	2	2
CO 4	3	3	3	2	2	-	-	1	1	2	3	2
CO 5	3	3	3	3	2	1	1	2	-	2	2	2
Avg	3	3	2.8	2.4	1.8	1	2	1.2	1	1.75	2.4	2

Course name: OE(IME)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	3	3	2	2		-		-			
CO2	2	3	3	2	2		-		-			
CO3	3	3	3	3	3		--					
CO4	3	3	3	3	3	3	2		2	2	2	3
CO5	3	3	3	3	2				2		2	3
Avg	2.75	3	3	2.75	2.6	3	2		2		2	3

Course name: OE(BEI)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	3	3	1	-	2	-	2	1	-	3
CO2	3	3	3	3	1	-	2	-	2	1	-	3
CO3	3	3	3	3	1	-	2	-	2	1	-	3
CO4	3	3	3	3	1	-	2	-	2	1	-	3
CO5	3	3	3	3	1	-	2	-	2	1	-	3
Avg	3	3	3	3	1	-	2	-	2	1	-	3





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## Department of Information Technology

### CO – PO Mappings (R18)

Course name: OE(Total Quality Management)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	1	3	2	2				3	3	2	3
CO2			3	3	2				3		1	3
CO3	2		2	2	2	1			3			3
CO4			2			3	3	1	3	2		3
Avg	2	1	2.5	2.33	2	2	3	1	3	2.5	1.5	3

Course name: Operating Systems & Computer Networks Lab

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	3	3	3	2	2	2	1	2	2
CO 2	3	3	3	3	3	3	2	2	2	1	2	2
CO 3	3	3	3	3	2	2	2	2	2	1	2	2
CO 4	3	3	3	3	3	3	2	2	2	1	2	2
CO 5	3	3	3	3	2	2	2	2	2	1	2	2
CO 6	3	3	3	3	3	3	2	2	2	1	2	2
Avg	3	3	3	3	3	3	2	2	2	1	2	2

Course name: Advanced Communication Skills Lab

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2		1		1	3	2		3	3	1	1
CO2	2	2	1	2	2	3	2		1	2	1	2
CO3	2	2	1	2	3	3	1		2	3	2	2
CO4		1	2	1	2	1	3	1	3	3	3	1
CO5		1	1		1	1		2	3	2	2	1
	2	1.5	1.2	1.66	1.8	2.2	2	2.5	2.4	2.6	1.8	1.4

Course name: Web Technologies

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3		3		3	2	2	1	2		3	2
CO 2	3	1	3		2						2	2



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## Department of Information Technology

### CO – PO Mappings (R18)

CO 3	3	3	3		3	2	3	2	3	2	3	3
CO 4	3	2	3	3	2	3	3	1	2	2	3	3
CO 5	3	2	3	2	2	3	2	1	2	2	3	3
Avg	3	2	3	2.5	2.4	2.5	2.5	1.25	2.25	2	2.8	2.6

### Course name: Compiler Design

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3		2					2			2
CO 2	3	3		2					2			2
CO 3	3	2		1					2			2
CO 4	3	2		1					2			2
CO 5	3	2	2	2					2			2
	3	2.4	2	1.6					2			2

### Course name: Data Warehousing and Data Mining

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	3	3	2	2	2	2	2	2	2
CO 2	3	3	3	3	3	2	2	1	2	2	2	2
CO 3	3	3	3	3	3	3	2	2	2	2	2	2
CO 4	3	3	3	3	3	3	2	2	2	2	2	2
CO 5	3	3	3	3	3	3	2	2	2	2	2	2
Avg	3	3	3	3	3	2.6	2	1.8	2	2	2	2

### Course name: Object Oriented Analysis And Design

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	2	3	3	3	3	1	1	2	2	3	3	3
CO 2	2	3	3	3	3	2	1	1	3	3	3	3
CO 3	2	3	3	3	3	1	2	2	2	3	2	3
CO 4	2	3	3	3	3	2	2	2	2	3	2	3
CO 5	2	3	3	3	3	2	2	2	2	3	2	3
Avg	2	3	3	3	3	1.6	1.6	1.8	2.2	3	2.4	3



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## Department of Information Technology

### CO – PO Mappings (R18)

Course name: Artificial Intelligence - PE2

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3						2		1	
CO 2	3	3	3						2		1	2
CO 3	3	3	3	2					2		3	2
CO 4	3	3	3						2		2	2
CO 5	3	3	3						2		1	3
Avg	3	3	3	2					2		1.8	2.25

Course name: Information Security - PE2

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3						2		1	
CO 2	3	3	3						2		1	2
CO 3	3	3	3	2					2		3	2
CO 4	3	3	3						2		2	2
CO 5	3	3	3						2		1	3
Avg	3	3	3	2					2		1.8	2.25

Course name: Software Testing Methodologies - PE2

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3						2		1	
CO 2	3	3	3						2		1	2
CO 3	3	3	3	2					2		3	2
CO 4	3	3	3						2		2	2
CO 5	3	3	3						2		1	3
Avg	3	3	3	2					2		1.8	2.25

Course name: Principles of Programming Languages - PE2

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3						2		1	
CO 2	3	3	3						2		1	2



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## Department of Information Technology

### CO – PO Mappings (R18)

CO 3	3	3	3	2					2		3	2
CO 4	3	3	3						2		2	2
CO 5	3	3	3						2		1	3
	3	3	3	2					2		1.8	2.25

### Course name: OE (PRINCIPLES OF COMMUNICATIONS)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	3	-	3	-	3	-	3	3	-	3
CO2	3	3	3	-	3	-	3	-	3	3	-	3
CO3	3	3	3	-	3	-	3	-	3	3	-	3
CO4	3	3	3	-	3	-	3	--	3	3	-	3
CO5	3	3	3	--	3	-	3	-	3	3	-	3
Avg	3	3	3	-	3	-	3	-	3	3	-	3

### Course name: OE (Fundamentals of Embedded systems)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	3	3	3	-	3		3	3		3
CO2	3	3	3	3	3	-	3		3	3		3
CO3	3	3	3	3	3		3		3	3		3
CO4	3	3	3	3	3		3		3	3		3
CO5	3	3	3	3	3		3		3	3		3
Avg	3	3	3	3	3		3		3	3		3

### Course name: OE(Financial institutions & markets)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1										2	3	
CO2										2	3	
CO3										2	3	
CO4					3					2	3	3
Avg					3					2	3	3

### Course name: Data Mining & Case Tools Lab

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3			3	3		2	2		2	2
CO 2	3	3	3	3	3	3		2	2		3	2
CO3	3	3						2			3	2
CO4	3	3						2			3	2



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## Department of Information Technology

### CO – PO Mappings (R18)

CO5	3	3						2			3	2
CO6	3	3										
Avg	3	3	3	3	3	3		2	2		2.8	2

### Course name: Web Technologies Lab

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3			3	3		2	2		2	2
CO 2	3	3	3	3	3	3		2	2		3	2
CO 3	3	3						2			3	2
CO 4	3	3						2			3	2
CO5	3	3						2			3	2
Avg	3	3	3	3	3	3		2	2		2.8	2

### Course name: QMLR

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3		3			2	2	2			3
CO 2	3	3		2			2	2	1			3
CO 3	3	3		3			2	2	1			3
CO 4	3	3		3			2		2			3
AVG	3	3		2.75			2	2	1.5			3

### Course name: Professional Communications

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1									2	2		3
CO2								3	2	2	2	2
CO3									3	3	2	2
CO4								2	3	2	2	2
CO5										3		2
AVG								2.5	2.5	2.4	2	2.2

### Course name: Mobile Application Development

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	2	2	2	2	1	2	2	1	2	2



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### CO – PO Mappings (R18)

CO 2	3	3	2	2	2	1	1	1	2	1	2	2
CO 3	3	3	3	3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	3	3	3	3	3
CO 5	3	3	3	2	2	3	2	2	2	1	2	3
Avg	3	3	2.6	2.4	2.4	2.4	2	2.2	2.4	1.8	2.4	2.6

### Course name: Internet of Things

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	2	2	2	2	1	2	2	1	2	2
CO 2	3	3	2	2	2	1	1	1	2	1	2	2
CO 3	3	3	3	3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	3	3	3	3	3
CO 5	3	3	3	2	2	3	2	2	2	1	2	3
Avg	3	3	2.6	2.5	2.7	2.8	2.4	2.2	2.2	2	2.1	2.2

### Course name: Big Data Analytics – PE3

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	1	1	1	1	1			1			1
CO 2	3	2	2		3							1
CO 3	2	3	3	2	3	2	1	1	2	1	1	2
CO 4	3	1	1	1	3	1						
CO 5	2	2	2		3				1	1	1	2
Avg	2.6	1.8	1.8	1.3	2.6	1.3	1	1	1.3	1	1	1.5

### Course name: Image Processing – PE3

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	1	1	1	1	1			1			1
CO 2	3	2	2		3							1
CO 3	2	3	3	2	3	2	1	1	2	1	1	2
CO 4	3	1	1	1	3	1						
CO 5	2	2	2		3				1	1	1	2
Avg	2.6	1.8	1.8	1.3	2.6	1.3	1	1	1.3	1	1	1.5



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## Department of Information Technology

### CO – PO Mappings (R18)

Course name: R Programming – PE3

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	1	1	1	1	1			1			1
CO 2	3	2	2		3							1
CO 3	2	3	3	2	3	2	1	1	2	1	1	2
CO 4	3	1	1	1	3	1						
CO 5	2	2	2		3				1	1	1	2
Avg	2.6	1.8	1.8	1.3	2.6	1.3	1	1	1.3	1	1	1.5

Course name: Data Science – PE3

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	1	1	1	1	1			1			1
CO 2	3	2	2		3							1
CO 3	2	3	3	2	3	2	1	1	2	1	1	2
CO 4	3	1	1	1	3	1						
CO 5	2	2	2		3				1	1	1	2
Avg	2.6	1.8	1.8	1.3	2.6	1.3	1	1	1.3	1	1	1.5

Course name: Advanced Databases – PE4

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	1	1	1	1	1		-	1		1	1
CO 2	3	1	3	1	2			-	1		1	1
CO 3	3	2	1	2	1	2	1	1	1	1	2	1
CO 4	3	2	1	2	2	1		-			1	
CO 5	3	3	2	2	1			1	2	1	1	1
Avg	3	1.8	1.6	1.6	1.4	1.3	1	1	1.2	1	1.2	1

Course name: Machine Learning – PE4

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	1	1	1	1	1		-	1		1	1
CO 2	3	1	3	1	2			-	1		1	1



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## Department of Information Technology

### CO – PO Mappings (R18)

CO 3	3	2	1	2	1	2	1	1	1	1	2	1
CO 4	3	2	1	2	2	1		-			1	
CO 5	3	3	2	2	1			1	2	1	1	1
Avg	3	1.8	1.6	1.6	1.4	1.3	1	1	1.2	1	1.2	1

### Course name: Block chain Technologies – PE4

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	1	1	1	1	1		-	1		1	1
CO 2	3	1	3	1	2			-	1		1	1
CO 3	3	2	1	2	1	2	1	1	1	1	2	1
CO 4	3	2	1	2	2	1		-			1	
CO 5	3	3	2	2	1			1	2	1	1	1
Avg	3	1.8	1.6	1.6	1.4	1.3	1	1	1.2	1	1.2	1

### Course name: Information Retrieval Systems - PE4

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	1	1	1	1	1		-	1		1	1
CO 2	3	1	3	1	2			-	1		1	1
CO 3	2	2	1	2	1	2	1	1	1	1	2	1
CO 4	3	2	1	2	2	1		-			1	
CO 5	3	3	1	2	1			1	2	2	1	1
Avg	3	1.8	1.6	1.6	1.4	1.3	1	1	1.2	1.5	1.2	1

### Course name: MAD and IoT Lab

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	1	1	3	-	-	-	2	-	2	1
CO 2	3	3	3	2	3	1	-	-	2	-	2	1
CO 3	3	3	3	2	3	1	1	1	2	-	2	1
Avg	3	3	2.33	1.67	3	1	1	1	2	-	2	1

### Course name: Big Data Analytics Lab – PE3 Lab

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	1	1	3	-	-	-	2	-	2	1





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## Department of Information Technology

### CO – PO Mappings (R18)

CO 2	3	3	3	2	3	1	-	-	2	-	2	1
CO 3	3	3	3	2	3	1	1	1	2	-	2	1
Avg	3	3	3	3	3	3	3	2	2.8	3	2.6	2.8

### Course name: Image Processing Lab – PE3

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	1	1	1	1	1			1			1
CO 2	3	2	2		3							1
CO 3	2	3	3	2	3	2	1	1	2	1	1	2
CO 4	3	1	1	1	3	1						
CO 5	2	2	2		3				1	1	1	2
Avg	2.6	1.8	1.8	1.3	2.6	1.3	1	1	1.3	1	1	1.5

### Course name: R Programming Lab – PE3 Lab

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	1	1	3	-	-	-	2	-	2	1
CO 2	3	3	3	2	3	1	-	-	2	-	2	1
CO 3	3	3	3	2	3	1	1	1	2	-	2	1
Avg	3	3	3	3	3	3	3	2	2.8	3	2.6	2.8

### Course name: Data Science Lab – PE3 Lab

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	1	1	1	1	1			1			1
CO 2	3	2	2		3							1
CO 3	2	3	3	2	3	2	1	1	2	1	1	2
CO 4	3	1	1	1	3	1						
CO 5	2	2	2		3				1	1	1	2
Avg	2.6	1.8	1.8	1.3	2.6	1.3	1	1	1.3	1	1	1.5

### Course name: Mini Project

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	2	3	-	2	2	2	3	3	3	2
CO 2	3	3	3	3	3	2	2	2	3	3	3	2



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## Department of Information Technology

### CO – PO Mappings (R18)

CO 3	-	-	-	-	-	2	2	2	3	3	3	2
CO 4	-	-	-	-	3	2	2	2	3	2	3	2
Avg	3	3	2.5	3	3	2	2	2	3	2.75	3	2

### Course name: Semantic Web and Social Networks

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	1	1	1	1	1		-	1		1	1
CO 2	3	1	3	1	2			-	1		1	1
CO 3	3	2	3	2	1	2	1	1	1	1	2	1
CO 4	3	2	1	2	2	1		-			1	
CO 5	3	3	2	2	3			1	2	3	1	1
Avg	3	1.8	1.6	1.6	1.4	1.3	1	1	1.2	2	1.2	1

### Course name: E-Commerce

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	1	-	2	-	-	-	-	-	-	-	-
CO 2	2	1	-	2	-	-	-	-	1	-	2	2
CO 3	-	2	3	2	-	-	-	-	-	-	-	-
CO 4	-	2	-	3	-	-	1	2	-	-	-	-
CO 5	-	3	-	-	2	1	-	-	-	-	-	2
Avg	2.5	1.8	3	2.25	2	1	1	2	1	-	2	2

### Course name: Technical Seminar

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	-	-	-	-	-	-	-	-	3	3	2	-
CO 2	-	-	-	-	-	-	-	-	3	3	2	-
CO 3	-	-	-	-	-	-	-	-	3	3	2	-
CO 4	-	-	-	-	-	-	-	-	3	3	2	-
CO 5	3	2	1	1	3	2	2	2	3	3	2	2
Avg	3	2	1	1	3	2	2	2	3	3	2	2



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## Department of Information Technology

### CO – PO Mappings (R18)

Course name: Comprehensive Viva-Voce

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	1	1	3	-	-	-	2	-	2	1
CO 2	3	3	3	2	3	1	-	-	2	-	2	1
CO 3	3	3	3	2	3	1	1	1	2	-	2	1
Avg	3	3	3	3	3	3	3	2	2.8	3	2.6	2.8

Course name: Major Project

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	2	3	-	2	2	2	3	3	3	2
CO 2	3	3	3	3	3	2	2	2	3	3	3	2
CO 3	-	-	-	-	-	2	2	2	3	3	3	2
CO 4	-	-	-	-	3	2	2	2	3	2	3	2
Avg	3	3	2.5	3	3	2	2	2	3	2.75	3	2



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## Department of Information Technology

### CO – PSO Mappings (R18)

#### Course name: Probability and Statistics

	PSO1	PSO2
<b>CO1</b>	2	1
<b>CO2</b>	2	1
<b>CO3</b>	2	1
<b>CO4</b>	2	1
<b>CO5</b>	2	1
<b>AVG</b>	2	1

#### Course name: Digital Logic Design

	PSO1	PSO2
CO1	3	2
CO2	3	2
CO3	3	2
CO4	3	2
CO5	3	2
AVG	3	2

#### Course name: Electronic Devices & Circuits

	PSO1	PSO2
CO1	3	3
CO2	3	3
CO3	3	3
CO4	3	3
CO5	3	3
AVG	3	3

#### Course name: Data Structures

	PSO1	PSO2
<b>CO1</b>	3	3
<b>CO2</b>	3	3
<b>CO3</b>	3	3
<b>CO4</b>	3	3
<b>CO5</b>	3	3
<b>AVG</b>	3	3

#### Course name: Mathematical Foundation of Computer Science

	PSO1	PSO2
<b>CO1</b>	3	3
<b>CO2</b>	3	3
<b>CO3</b>	3	3
<b>CO4</b>	3	3
<b>CO5</b>	3	3
<b>AVG</b>	3	3



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## Department of Information Technology

### CO – PSO Mappings (R18)

#### Course name: Python Programming

	PSO1	PSO2
CO1	3	2
CO2	3	3
CO3	3	2
CO4	3	3
CO5	3	3
AVG	3	3

#### Course name: Data Structures and Python Programming Lab

	PSO1	PSO2
CO1	3	3
CO2	3	3
CO3	3	3
CO4	3	3
CO5	3	3
AVG	3	3

#### Course name: Digital Logic Design and Electronic Devices & circuits lab

	PSO1	PSO2
CO1	3	2
CO2	3	2
CO3	3	2
CO4	3	2
CO5	3	2
AVG	3	2

#### Course name: Design and Analysis of Algorithms

	PSO1	PSO2
CO1	3	2
CO2	3	2
CO3	3	2
CO4	3	2
CO5	3	2
AVG	3	2

#### Course name: Computer Organization

	PSO1	PSO2
CO1	3	3
CO2	2	2
CO3	3	3
CO4	3	3
CO5	3	3
AVG	3	3



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## Department of Information Technology

### CO – PSO Mappings (R18)

#### Course name: Java Programming

	PSO1	PSO2
CO1	3	2
CO2	3	3
CO3	3	2
CO4	3	3
CO5	3	3
AVG	3	2.6

#### Course name: Software Engineering

	PSO1	PSO2
CO1	3	3
CO2	3	2
CO3	2	3
CO4	3	3
CO5	3	3
Avg	2.8	2.8

#### Course name: Database Management Systems

	PSO1	PSO2
CO1	3	2
CO2	3	3
CO3	3	2
CO4	3	3
CO5	3	3
AVG	3	2.6

#### Course name: Java Programming Lab

	PSO1	PSO2
CO1	3	3
CO2	3	3
CO3	3	3
CO4	3	3
CO5	3	3

#### Course name: Database Management Systems Lab

	PSO1	PSO2
CO1	3	3
CO2	3	3
CO3	3	3
CO4	3	3
CO5	3	3



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## Department of Information Technology

### CO – PSO Mappings (R18)

#### Course name: Formal Languages and Automata Theory

	PSO1	PSO2
CO1	3	2
CO2	3	2
CO3	3	2
CO4	3	2
CO5	3	2
AVG	3	2

#### Course name: Computer Networks

	PSO1	PSO2
CO1	3	2
CO2	3	2
CO3	3	2
CO4	3	2
CO5	3	2
AVG	3	2

#### Course name: Operating systems

	PSO1	PSO2
CO1	3	3
CO2	3	3
CO3	3	3
CO4	3	3
CO5	3	3
AVG	3	3

#### Course name: Managerial Economics and Financial Analysis

	PSO1	PSO2
CO1	2	2
CO2		
CO3		2
CO4		2
CO5		
AVG	2	2

#### Course name: Cloud Computing

	PSO1	PSO2
CO1	3	3
CO2	3	3
CO3	3	3
CO4	3	3
CO5	3	3
AVG	3	3



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## Department of Information Technology

### CO – PSO Mappings (R18)

#### Course name: Linux Programming - PE1

	PSO1	PSO2
CO1	3	2
CO2	3	2
CO3	3	2
CO4	3	2
CO5	3	2
AVG	3	2

#### Course name: Software Project Management - PE1

	PSO1	PSO2
CO1	3	2
CO2	3	2
CO3	3	2
CO4	3	2
CO5	3	2
AVG	3	2

#### Course name: Computer Graphics - PE1

	PSO1	PSO2
CO1	3	2
CO2	3	2
CO3	3	2
CO4	3	2
CO5	3	2
AVG	3	2

#### Course name: Computer Networks and Operating Systems Lab

	PSO1	PSO2
CO1	3	3
CO2	3	3
CO3	3	3
CO4	3	3
CO5	3	3
AVG	3	3

#### Course name: Advanced Communication Skills Lab

	PSO1	PSO2
CO1		2
CO2		3
CO3	1	2
CO4		3
CO5		2
AVG	1	2.2





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## Department of Information Technology

### CO – PSO Mappings (R18)

#### Course name: Web Technologies

	PSO1	PSO2
CO1	3	3
CO2	3	3
CO3	3	3
CO4	3	3
CO5	3	3
AVG	3	3

#### Course name: Compiler Design

	PSO1	PSO2
CO1	3	3
CO2	3	3
CO3	3	3
CO4	3	3
CO5	3	3

#### Course name: Data Warehousing and Data Mining

	PSO1	PSO2
CO1	3	2
CO2	3	2
CO3	3	2
CO4	3	2
CO5	3	2
AVG	3	2

#### Course name: Object Oriented Analysis And Design

CO	PSO1	PSO2
CO1	3	2
CO2	3	2
CO3	3	2
CO4	3	2
CO5	3	2
Avg	3	2

#### Course name: Artificial Intelligence - PE2

	PSO1	PSO2
CO1	3	3
CO2	3	3
CO3	3	3
CO4	3	3
CO5	3	3



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## Department of Information Technology

### CO – PSO Mappings (R18)

#### Course name: Information Security

	PSO1	PSO2
CO1	3	3
CO2	3	3
CO3	3	3
CO4	3	3
CO5	3	3
AVG	3	3

#### Course name: Software Testing Methodologies- PE2

	PSO1	PSO2
CO1	3	3
CO2	3	3
CO3	3	3
CO4	3	3
CO5	3	3
AVG	3	3

#### Course name: Principles of Programming Languages - PE2

	PSO1	PSO2
CO1	3	3
CO2	3	3
CO3	3	3
CO4	3	3
CO5	3	3

#### Course name: Data Mining and Case Tools lab

	PSO1	PSO2
CO1	3	3
CO2	3	3
CO3	3	3
CO4	3	3
CO5	3	3
CO6	3	3
AVG	3	3

#### Course name: Web Technologies Lab

	PSO1	PSO2
CO1	3	3
CO2	3	3
CO3	3	3
CO4	3	3
CO5	3	3
AVG	3	3



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## Department of Information Technology

### CO – PSO Mappings (R18)

#### Course name: Mobile Application Development

	PSO1	PSO2
CO1	3	3
CO2	3	3
CO3	3	3
CO4	3	3
CO5	3	3
AVG	3	3

#### Course name: Internet of Things

	PSO1	PSO2
CO1	3	3
CO2	3	3
CO3	3	3
CO4	3	3
CO5	3	3
AVG	3	3

#### Course name: Big Data Analytics - PE3

	PSO1	PSO2
CO1	3	3
CO2	3	3
CO3	3	3
CO4	3	3
CO5	3	3
AVG	3	3

#### Course name: Image Processing - PE3

	PSO1	PSO2
CO1	3	3
CO2	3	3
CO3	3	3
CO4	3	3
CO5	3	3
AVG	3	3

#### Course name: R Programming - PE3

	PSO1	PSO2
CO1	3	3
CO2	3	3
CO3	3	3
CO4	3	3
CO5	3	3
AVG	3	3



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## Department of Information Technology

### CO – PSO Mappings (R18)

#### Course name: Data Science - PE3

	PSO1	PSO2
CO1	3	3
CO2	3	3
CO3	3	3
CO4	3	3
CO5	3	3
AVG	3	3

#### Course name: Machine Learning - PE4

	PSO1	PSO2
CO1	3	3
CO2	3	3
CO3	3	3
CO4	3	3
CO5	3	3
AVG	3	3

#### Course name: Blockchain Technologies - PE4

	PSO1	PSO2
CO1	3	3
CO2	3	3
CO3	3	3
CO4	3	3
CO5	3	3
AVG	3	3

#### Course name: Advanced Databases - PE4

	PSO1	PSO2
CO1	3	3
CO2	3	3
CO3	3	3
CO4	3	3
CO5	3	3
AVG	3	3

#### Course name: Information Retrieval Systems – PE4

	PSO1	PSO2
CO1	3	3
CO2	3	3
CO3	3	3
CO4	3	3
CO5	3	3
AVG	3	3



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## Department of Information Technology

### CO – PSO Mappings (R18)

#### Course name: MAD and IoT Lab

	PSO1	PSO2
<b>CO1</b>	3	3
<b>CO2</b>	3	3
<b>CO3</b>	3	3
<b>CO4</b>	3	3
<b>CO5</b>	3	3
<b>CO6</b>	3	3
<b>AVG</b>	3	3

#### Course name: Big Data Analytics Lab - PE3 Lab

	PSO1	PSO2
<b>CO1</b>	3	3
<b>CO2</b>	3	3
<b>CO3</b>	3	3
<b>AVG</b>	3	3

#### Course name: Image Processing Lab - PE3 Lab

	PSO1	PSO2
<b>CO1</b>	3	3
<b>CO2</b>	3	3
<b>CO3</b>	3	3
<b>CO4</b>	3	3
<b>AVG</b>	3	3

#### Course name: R Programming Lab - PE3 Lab

	PSO1	PSO2
<b>CO1</b>	3	3
<b>CO2</b>	3	3
<b>CO3</b>	3	3
<b>AVG</b>	3	3

#### Course name: Data Science Lab - PE3 Lab

	PSO1	PSO2
<b>CO1</b>	3	3
<b>CO2</b>	3	3
<b>CO3</b>	3	3
<b>CO4</b>	3	3
<b>CO5</b>	3	3
<b>AVG</b>	3	3



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## Department of Information Technology

### CO – PSO Mappings (R18)

#### Course name: Mini Project

	PSO1	PSO2
<b>CO1</b>	3	3
<b>CO2</b>	3	3
<b>AVG</b>	3	3

#### Course name: Semantic Web and Social Networks

	PSO1	PSO2
<b>CO1</b>	3	3
<b>CO2</b>	3	3
<b>CO3</b>	3	3
<b>CO4</b>	3	3
<b>CO5</b>	3	3
<b>AVG</b>	3	3

#### Course name: E-Commerce

	PSO1	PSO2
<b>CO1</b>	2	2
<b>CO2</b>	2	2
<b>CO3</b>	2	2
<b>CO4</b>	2	2
<b>CO5</b>	2	2
<b>AVG</b>	2	2

#### Course name: Technical Seminar

	PSO1	PSO2
<b>CO1</b>	3	3
<b>CO2</b>	3	3
<b>CO3</b>	3	3
<b>CO4</b>	3	3
<b>CO5</b>	3	3
<b>AVG</b>	3	3

#### Course name: Comprehensive Viva-Voce

	PSO1	PSO2
<b>CO1</b>	3	3
<b>CO2</b>	3	3
<b>CO3</b>	3	3
<b>AVG</b>	3	3



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## Department of Information Technology

### CO – PSO Mappings (R18)

Course name: Major Project

	PSO1	PSO2
<b>CO1</b>	3	3
<b>CO2</b>	3	3
<b>CO3</b>	3	3
<b>CO4</b>	3	3
<b>AVG</b>	3	3