CO PO MAPPING

| Subject with Code | CO | Semester-III |
| | | Mapping of Course Outcomes (COs) with Program Outcomes (POs) |
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
3IT1A: Electronics Devices & Circuits	CO-1	3	2	2	2	2				1			
	CO-2	3	3	1	2	1				1			
	CO-3	3	2	2	2	1				2		1	
	CO-4	3	2	1	3	2				1	1	1	1
3IT2A: Data Structures & Algorithms	CO-1	3	2	1	1	1				1			1
	CO-2	3	2	3						2			2
	CO-3	3	2	1	1					2			1
	CO-4	3	3	3		1				3		1	2
3IT3A: Digital Electronics	CO-1	3	3	3	2	3				2			
	CO-2	3	3	2	2	2				3			
	CO-3	3	3	3	3	3				1		1	
	CO-4	3	2	3	1	3				2	1	1	
3IT4A: Object Oriented Programming	CO-1	3	1	1									
	CO-2	3	2	1									
	CO-3	3	3	2	2	1				1			
	CO-4	3	3	3	2	2				1	1	1	
3IT5A: Linux and Shell Programming	CO-1	3	3	3	2	3				1			3
	CO-2	3	3	3	2	3				1			3
	CO-3	3	3	3	2	3				2			3
	CO-4	3	3	3	2	3				1			3
3IT6A:Advanced Engineering Mathematics	CO-1	3	1	1		1	1	1		1	1		1
	CO-2	3	1	1		1	1	1		1	1		1
	CO-3	3	1	1		1	1	1		1	1		1
	CO-4	3	1	1		2	1	1		1	1		1
3IT7A: Electronics Devices & Circuits Lab	CO-1	3	1	1	1					1			1
	CO-2	2	2	1	1	1							2
	CO-3	2	2	1		1				1			2
	CO-4												

Subject with Code	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
3IT8A: Data Structures Lab	CO-1	3	2	1	1	1				1			1
	CO-2	3	2	3						2			2
	CO-3	3	2	1	1					2			1
	CO-4	3	3	3		1				3		1	2
3IT9A:Digital Electronics Lab	CO-1	2	2	1									
	CO-2	3	2	3		2							3
	CO-3	1	1										
	CO-4	3	3	3		2	1	1		1		1	3
3IT10A: Programming in C++ Lab	CO-1	3	1									3	1
	CO-2	2	2	1	1		3					2	2
	CO-3		1	2	2	2							1
	CO-4				1	1		1	1	3			
	CO-5									2	3		2
3IT11A: Shell Programming Lab	CO-1	3	1	1	2					1	1		2
	CO-2	3	2	2	3	2				2	2		3
	CO-3	3	3	3	3	2				3	1		3
	CO-4	3	2	3	2	3				3	2	2	2

Semester-IV													
Subject with Code	CO	Mapping of Course Outcomes (COs) with Program Outcomes (POs)											
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
4IT1A: Microprocessors & Interfaces	CO-1	3	1	2	1					2	1		2
	CO-2	3	2	3						2	1		2
	CO-3	3	2	3						2	1		2
	CO-4	3	2	1	2					2	1		2
4IT2A: Discrete Mathematical Structures	CO-1	3	1	1	1					2	1	1	3
	CO-2	3	2	3	2	2				2	1	1	3
	CO-3	3	3	2	2	2				2	1	1	3
	CO-4	3	3	2	2	2				2	1	1	3
4IT3A: Statistics & Probability Theory	CO-1	3	3		1						1		
	CO-2	3	3		3						1		
	CO-3	3	3		2	3					1		
	CO-4	3	3		3						1		

Subject with Code	CO												
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
4IT4A: Software Engineering	CO-1	3	2	3	1	2	1			2		1	1
	CO-2	3	3	3	1	3	1			3	2	3	2
	CO-3	3	2	3	2	3	1			3	2	3	2
	CO-4	3	3	3	2	3	1	1		3	2	2	2
4IT5A: Principles of Communication	CO-1	3	3	1		1	1	1			1		1
	CO-2	3	3	2		1	1	1			1		1
	CO-3	3	3	2		1	1	1			1		1
	CO-4	3	3	2		1	1	1		1	1		1
4IT6A: Principles of Programming Languages	CO-1	3	3		2	2				3	3	1	2
	CO-2	3	3	3	1	3				3	2	3	3
	CO-3	3	2	2	2	3		1		3	3	2	3
	CO-4	3	3	2	2	2		2		3	1	3	2
4IT7A: Microprocessor Lab	CO-1	3	3	2	2	3					2	1	3
	CO-2	3	2	2	2	2					2	1	3
	CO-3	3	3	2	2	2					2	1	3
	CO-4	3	3	2	2	2					2	1	3
4IT8A: Communication Lab	CO-1	3	3	1		1	1	1			1		1
	CO-2	3	3	2		1	1	1			1		1
	CO-3	3	3	2		1	1	1			1		1
4IT9A: CASE Lab	CO-1	3	2	3	1	2	1			2		1	1
	CO-2	3	3	3	1	3	1			3	2	3	2
	CO-3	3	2	3	2	3	1			3	2	3	2
	CO-4	3	3	3	2	3	1	1		3	2	2	2
4IT10A: Business Entrepreneurship Development Lab	CO-1	3	3	2	2	3					2	1	3
	CO-2	3	2	2	2	2					2	1	3
	CO-3	3	3	2	2	2					2	1	3
	CO-4	3	3	2	2	2					2	1	3

Semester-V													
Subject with Code	CO	Mapping of Course Outcomes (COs) with Program Outcomes (POs)											
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12

Course	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
5IT1A: Computer Architecture	CO-1	3	3			3		2					2
	CO-2	3	3		3	2		2					3
	CO-3	3	3		3	2		2					2
	CO-4	3	2	3	2			2					3
5IT2A: Digital Signal Processing	CO-1	2	1		1					1			
	CO-2	2	2	1	1					1			
	CO-3	3	3	2	3	2				2			1
	CO-4	3	3	2	3	2				2			1
5IT3A: Telecommunication Fundamentals	CO-1	3	2	2		2			1				2
	CO-2	3	2	2		2			1		2		2
	CO-3	3	2	2		2			1				2
	CO-4	3	3	3		2	1	1	1		2	1	2
5IT4A: Database Management Systems	CO-1	3				2							1
	CO-2	3		3	1	2							1
	CO-3	3		3	1	2							1
	CO-4	3			1	1		1	1	2	1		1
5IT5A: OPERATING SYSTEMS	CO-1	3				1							1
	CO-2	3		3	1	2							1
	CO-3	3		3	1	2							1
	CO-4	3			1	1		1		1	1		1
5IT6.2A: E-Commerce	CO-1	3	3		2	2				3	3	1	2
	CO-2	3	3	3	2	3				3	2	3	3
	CO-3	3	2	2	1	3		2		3	3	2	3
	CO-4	3	3	2	2	2		2		3	1	3	3
5IT7A: Database Lab	CO-1	3	2	1		2			2				2
	CO-2	3	2	3		2			2	2		2	2
	CO-3	3	2	2					1			2	2
	CO-4	3	3	3		2	1	1	1	2		2	2
5IT8A: Advanced Communication Lab	CO-1	3	2	1	1					2			
	CO-2	3	2	1	1					2			
	CO-3	2	2	2	2					2			
	CO-4	2	2	2	2					2			
	CO-1	3				1							1

Subject with Code	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
5IT9A: Operating System Simulation Lab	CO-2	3		3	1	2							1
	CO-3	3		3	1	2							1
	CO-4	3			1	1		1		1	1		1
5IT10A: Digital Hardware Design Lab	CO-1	2	2		2								
	CO-2	2	3		3	2							
	CO-3					3						2	2
	CO-4		2		2							2	2

Semester-VI													
Subject with Code	CO	Mapping of Course Outcomes (COs) with Program Outcomes (POs)											
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
6IT1A: Computer Networks	CO-1	3	2	2	1	1		1		1			3
	CO-2	3	3	2	2	1	1	2		1			3
	CO-3	3	3	2	2	2	1	2		2	2		3
	CO-4	3	3	2	2	3	1	2		1	2		3
6IT2A: Design and Analysis of Algorithms	CO-1	3	2										
	CO-2	3	2			1							
	CO-3	2	1										
	CO-4		2			3							
6IT3A: Theory of Computation	CO-1	3	2	1	1						1		1
	CO-2	3	2	3	2						2		1
	CO-3	3	1	3	2						2		1
	CO-4	3	3	3	2		1	1		1	2		1
6IT4A: Programming in Java	CO-1	3	2	2	1	1				3			3
	CO-2	3	3	2	1	1				3			3
	CO-3	3	2	3	2	3				3		1	3
	CO-4	3	2	3	3	3				3	1	1	3
6IT5A: Information Theory & Coding	CO-1	2	3		1								3
	CO-2	3			3								3
	CO-3	2	3			1						2	3
	CO-4	3	2		3								2
6IT6.1A: Advance Topics in Operating	CO-1	3	3		1	1							1
	CO-2	3	3			1							1

Subject with Code	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
System	CO-3	3	3		3								1
	CO-4	3	3	2	3							1	3
6IT7A: Java Programming Lab	CO-1	3	2	2	1	1				3			3
	CO-2	3	3	2	1	1				3			3
	CO-3	3	2	3	2	3				3		1	3
	CO-4	3	2	3	3	3				3	1	1	3
6IT8A: GUI Design Lab	CO-1	1				2							
	CO-2	2	1			2						1	1
	CO-3	2	1			2						1	1
	CO-4	3	2	3	1	2						3	1
6IT9A: UML Lab	CO-1	3	1	3		3		1				3	1
	CO-2	2	3	1	1		3	1	3			3	2
	CO-3		3	2	2	2	2			3		3	1
6IT10A: Design and Analysis of Algorithms Lab	CO-1	1	1	3		2							1
	CO-2	1	1	3		2							1
	CO-3	1	3	1		2							1
6IT11A: Humanities and Social Sciences	CO-1						3	3	3		3		2
	CO-2						3	3	3		3		2
	CO-3						3	3	3		3		2
	CO-4						3	3	3		3		2

Semester-VII													
Subject with Code	CO	Mapping of Course Outcomes (COs) with Program Outcomes (POs)											
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
7IT1A: Software Project Management	CO-1	2										2	
	CO-2	2										3	
	CO-3	1										3	
	CO-4	2				3						2	
7IT2A: Information System & Securities	CO-1	2	2	1									
	CO-2	3	2	1	1			1					1
	CO-3	1	1	2	2								1
	CO-4	1	2	2									
	CO-1	3	3	2	1	1			1	1	2	1	3

7IT3A: DATA MINING AND WAREHOUSING	CO-2	3	3	3	1	1					2	1	3
	CO-3	3	3	3	1	1					2	1	3
	CO-4	3	3	1	2	2			1	3	2	3	2
7IT4A: Internet Programming	CO-1	3	2	2	1	1				3			3
	CO-2	3	3	2	1	1				3			3
	CO-3	3	2	3	2	3				3		1	3
	CO-4	3	2	3	3	3				3	1	1	3
7IT5A: Computer Graphics & Multimedia Techniques.	CO-1	3	3		1	1							1
	CO-2	3	3			1							1
	CO-3	3	3		3								1
	CO-4	3	3	2		3						1	3
7IT6.1: Advanced database management system	CO-1	2	1	2	2					1			1
	CO-2	3	2	2	2					1			1
	CO-3	3	2	2	3					2			1
	CO-4	3	2	2	3					2			2
7IT7A:Computer Graphics & Multimedia Lab	CO-1	3	3		1	1							1
	CO-2	3	3			1							1
	CO-3	3	3		3								1
	CO-4	3	3	2		3						1	3
7IT8A: DATA MINING AND WAREHOUSING LAB	CO-1	3	3	2	1	1			1	1	2	1	3
	CO-2	3	3	3	1	1					2	1	3
	CO-3	3	3	3	1	1					2	1	3
	CO-4	3	3	1	2	2			1	3	2	3	2
7IT9A: Internet Programming Lab	CO-1	3	2	2	1	1				3			3
	CO-2	3	3	2	1	1				3			3
	CO-3	3	2	3	2	3				3		1	3
	CO-4	3	2	3	3	3				3	1	1	3
7ITPR: Project Stage-I	CO-1	1	1	3	1	3	2	3	1	1	1	2	3
	CO-2	2	1	3	1	3	3	1	2	2	1	1	2
	CO-3	1	1	2	1	3	3	3	3	1	1	1	3
	CO-4	1	1	1	1	2	1	2	2	1	2	1	2
7ITTR: Practical Training Seminar	CO-1	3	3	2	3	3	2	1	1	2	1	1	2
	CO-2	3	2	3	3	2	1	1	2	3	1	3	3

7ITTR: Practical Training Seminar	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
	CO-3	3	3	2	3	3	1	2	2	3	2	2	3
	CO-4	3	3	1	3	3	3	3	3	3	3	3	3

Semester-VIII													
Subject with Code	**CO**	**Mapping of Course Outcomes (COs) with Program Outcomes (POs)**											
		PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
8IT1A: SOFTWARE TESTING & VALIDATION	CO-1	3	3		1	1							1
	CO-2	3	3			1							1
	CO-3	3	3		3								1
	CO-4	3	3	2		3						1	3
8IT2A: Digital Image Processing	CO-1	3	3	1	1	1				1	2	2	3
	CO-2	3	3	1	1	2				1	2	2	3
	CO-3	3	3	2	2	2				2	2	2	3
	CO-4	3	3	2	2	2				2	1	1	3
8IT3A: Data Compression Techniques	CO-1	3	2	1	2			1					
	CO-2	3	2	2	2	1		1			1		1
	CO-3	3	2	2	3	1		2			1		1
	CO-4	3	3	3	3	1		1			1		1
8IT4.2A: MOBILE COMPUTING	CO-1	3	2	1	2			1					
	CO-2	3	2	2	3	1		1			1		1
	CO-3	3	3	2	3	1		1			1		1
	CO-4	3	3	3	3	2		1			1		1
8IT5A: Software Testing Lab	CO-1			3	3		1					1	
	CO-2			3			1				2		
	CO-3		3										
	CO-4			3									
8IT6A: Digital Image Processing Lab	CO-1	3	3	1	1	1				1	2	2	3
	CO-2	3	3	1	1	2				1	2	2	3
	CO-3	3	3	2	2	2				2	2	2	3
	CO-4	3	3	2	2	2				2	1	1	3
8IT7A:Advanced Web Programming Lab	CO-1	3		3		2	3			2	2	3	
	CO-2	3	2	2	2		3			3	2		2
	CO-3	3	3		2	2				3		3	

	CO-4	2	3	3			2				3		2
8IT8A: Mobile Application Development Lab	**CO-1**	3	2	2	1	1				3			3
	CO-2	3	3	2	1	1				3			3
	CO-3	3	2	3	2	3				3		1	3
	CO-4	3	2	3	3	3				3	1	1	3
8ITPR: Project Stage-II	**CO-1**	1	1	3	1	3	2	3	1	1	1	2	3
	CO-2	2	1	3	1	3	3	1	2	2	1	1	2
	CO-3	1	1	2	1	3	3	3	3	1	1	1	3
	CO-4	1	1	1	1	2	1	2		1	2	1	2
8ITSM: Seminar	**CO-1**	3	3	2	3	3	2	1	1	2	1	1	2
	CO-2	3	2	3	3	2	1	1	2	3	1	3	3
	CO-3	3	3	2	3	3	1	2	2	3	2	2	3
	CO-4	3	3	1	3	3	3	3	3	3	3	2	3