Department of Information Technology

III B. Tech I Semester

SUBJECT: SOFTWARE ENGINEERING (C301)

After going through this course, the student will be able to

S. No.	COURSE OUTCOMES	BT Level
C301.1	Understand software engineering principles, process models, and lifecycle phases.	2-Understand
C301.2	Apply requirements engineering techniques to gather, analyze, and document software specifications.	3-Apply
C301.3	Design software architectures and models using UML and other design tools.	6-Create
C301.4	Evaluate software testing strategies, quality assurance techniques, and maintenance practices.	5-Evaluate
C301.5	Demonstrate teamwork, documentation, and ethical responsibility in software project development.	3-Apply

CO-PO MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C301.1	3	2	2	2							2	2	3	2	
C301.2	3	3	3	3	2						3	3	3	2	
C301.3	3	2	2	3	2						2	2	3	3	
C301.4	2	2	2	3	2						3	3	2	3	
C301.5				2							2	2	2		
Average	**2.75**	**2.25**	**2.25**	**2.6**	**2**						**2.4**	**2.4**	**2.6**	**2.5**	

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III B. Tech I Semester

SUBJECT: Data Communication & Computer Networks (C302)

After going through this course, the student will be able to

S. No.	COURSE OUTCOMES	BT Level
C302.1	Understand the basic concepts of computer networks and reference models	2-Understand
C302.2	Analyze data link layer protocols and error detection techniques	4-Analyze
C302.3	Evaluate medium access control and LAN technologies	5-Evaluate
C302.4	Understand network layer protocols and routing algorithms	2-Understand
C302.5	Explore transport and application layer protocols and services	2-Understand

CO-PO MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C302.1	3	3	2	2	2				2			3	2	3	
C302.2	3	3	2	2	3				2			2	1	3	
C302.3	2	2	3	3	3				3			3	3	3	
C302.4	3	3	3	3	3				3			3	3	3	
C302.5	3	2	3	2	3				3			3	3	1	
Average	**2.8**	**2.6**	**2.6**	**2.4**	**2.8**				**2.6**			**2.8**	**2.4**	**2.6**	

Department of Information Technology

III B. Tech I Semester

SUBJECT: Machine Learning(C303)

After going through this course, the student will be able to

S. No.	COURSE OUTCOMES	BT Level
C303.1	Understand the foundations of machine learning and well-posed learning problems	2-Understand
C303.2	Apply decision tree learning and concept learning algorithms	3-Apply
C303.3	Implement neural networks and backpropagation techniques	3-Apply
C303.4	Analyze Bayesian learning and instance-based learning methods	4-Analyze
C303.5	Demonstrate teamwork, documentation, and communication in ML-based projects	3-Apply

CO-PO MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C303.1	2	3	2	3	2								2	2	
C303.2	3	2	3	2	3								3	2	
C303.3	3	2	3	1	3								3	3	
C303.4	3	3	3	3	3								3	3	
C303.5	3	3	3	3	3								3	3	
Average	**2.8**	**2.6**	**2.8**	**2.4**	**2.8**								**2.8**	**2.6**	

Department of Information Technology

III B. Tech I Semester

SUBJECT: (Principles of Programming Language) PE-1(C304)

After going through this course, the student will be able to

S. No.	COURSE OUTCOMES	BT Level
C304.1	Illustrate concepts of programming languages, syntax, and semantics	2-Understand
C304.2	Demonstrate structured data objects and programmer-defined types	3-Apply
C304.3	Construct sequence and data control mechanisms	6-Create
C304.4	Examine storage management and binding concepts	4-Analyze
C304.5	Evaluate procedural, non-procedural, and object-oriented programming paradigms	5-Evaluate

CO-PO MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C304.1	3	3	2	2	2	3		2	2	2		2	2	2	
C304.2	3	3	3	2	3	3		2	2	2		2	3	2	
C304.3	2	2	3	3	3	2		2	2	2		3	3	3	
C304.4	3	2	3	3	3	2		2	3	3		3	2	3	
C304.5	3	3	3	3	3	2		2	3	3		3	3	3	
Average	**2.8**	**2.6**	**2.8**	**2.6**	**2.8**	**2.4**		**2**	**2.4**	**2.4**		**2.6**	**2.6**	**2.6**	

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III B. Tech I Semester

SUBJECT: PE-2(Distributed Databases) (C305)

After going through this course, the student will be able to

S. No.	COURSE OUTCOMES	BT Level
C305.1	Understand theoretical and practical aspects of distributed database systems.	2-Understand
C305.2	Identify various issues related to the development of distributed database system.	1-Remember
C305.3	Apply knowledge of Query Optimization Techniques in organization	3-Apply
C305.4	Analyze the important aspects of Single and Multilevel dynamic Indexing.	4-Analyze
C305.5	Evaluate a distributed computing model	5-Evaluate

CO-PO MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C305.1	3	3	2	2				2				2	2		3
C305.2	3	3	3	2				2				3	3		3
C305.3	3	3	3	3				2	3			2	3		2
C305.4	3	3	3	3				2	2			3	3		2
C305.5	3	3	3	3				2	2			2	3		2
Average	**3**	**3**	**2.8**	**2.6**				**2**	**2.3**			**2.4**	**2.8**		**2.4**

Department of Information Technology

III B. Tech I Semester

SUBJECT: Software Engineering & Computer Networks Lab (C306)

After going through this course, the student will be able to

S. No.	COURSE OUTCOMES	BT Level
C306.1	Implement data link layer farming methods	3-Apply
C306.2	Analyze error detection and error correction codes.	4-Analyze
C306.3	Implement and analyze routing and congestion issues in network design.	4-Analyze
C306.4	Prepare project documentation including SRS, design, and test reports	6-Create
C306.5	Demonstrate teamwork, communication, and project management skills in software projects	3-Apply

CO-PO MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C306.1	3			3					2				2	3	2
C306.2	2	2		3	2				3				3	3	2
C306.3	3	2	2	2	2								2	2	2
C306.4	3	3	3	2	3				3				2	2	2
C306.5	2	3	2	3	3				3					2	3
Average	**2.6**	**2.5**	**2.3**	**2.6**	**2.5**				**2.75**				**2.25**	**2.4**	**2.2**

Department of Information Technology

III B. Tech I Semester

SUBJECT: Machine Learning Lab(C307)

After going through this course, the student will be able to

S. No.	COURSE OUTCOMES	BT Level
C307.1	Understand the complexity and limitations of machine learning algorithms	2-Understand
C307.2	Apply modern data analysis techniques using Python	3-Apply
C307.3	Implement supervised and unsupervised learning algorithms	3-Apply
C307.4	Perform experiments using real-world datasets and evaluate model performance	5-Evaluate
C307.5	Demonstrate teamwork, documentation, and communication in ML projects	3-Apply

CO-PO MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C307.1	3	2	2	2	3								3	3	
C307.2	3	3	3	3	3								3	3	
C307.3	3	3	3	3	3								3	3	2
C307.4	3	3	3	3	3								3	3	2
C307.5	2	2	2	2	2								2	2	3
Average	**2.8**	**2.6**	**2.6**	**2.6**	**2.8**								**2.8**	**2.8**	**2.3**

Department of Information Technology

III B. Tech I Semester

SUBJECT: (C308) ADVANCED ENGLISH COMMUNICATION SKILLS LAB

After going through this course, the student will be able to

S. No.	COURSE OUTCOMES	BT Level
C308.1	Improve fluency and accuracy in spoken English	3-Apply
C308.2	Develop effective listening and comprehension skills	3-Apply
C308.3	Enhance presentation and public speaking abilities	3-Apply
C308.4	Practice group discussions and interviews for professional settings	3-Apply
C308.5	Demonstrate interpersonal communication and teamwork in simulated environments	3-Apply

CO-PO MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C308.1								3	3	2		3		3	1
C308.2								3	3	3		2	1	2	1
C308.3								3	3	3		3	2	3	3
C308.4								2	3	3		3	1	3	1
C308.5								2	3	3		3	3	3	3
Average								**2.6**	**3**	**2.8**		**2.8**	**1.8**	**2.8**	**1.8**

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III B. Tech I Semester

SUBJECT: (C309) UI DESIGN-FLUTTER

After going through this course, the student will be able to

S. No.	COURSE OUTCOMES	BT Level
C309.1	Understand the fundamentals of Flutter framework, Dart programming language, widget hierarchy.	2-Understand
C309.2	Design and implement responsive and adaptive user interfaces using Flutter widgets, layout techniques to create visually appealing and user-friendly mobile applications.	6-Create
C309.3	Develop interactive mobile applications by implementing navigation, routing, form handling.	6-Create
C309.4	Integrate external APIs, implement local and remote data storage solutions, manage application state using various state management.	3-Apply
C309.5	Build, test, debug, and deploy production-ready Flutter applications following best practices, optimize application performance, document code effectively	5-Evaluate

CO-PO MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C309.1	3	2	2	2								2	3	3	2
C309.2	3	3	3	2								2	3	2	
C309.3	3		3	3								3	3	3	
C309.4	3		3									3		3	
C309.5	3	3	3									3	3	3	3
Average	**3**	**2.67**	**2.8**	**2.33**								**2.6**	**3**	**2.8**	**2.5**

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III B. Tech I Semester

SUBJECT: (C310) INTELLECTUAL PROPERTY RIGHTS

After going through this course, the student will be able to

S. No.	COURSE OUTCOMES	BT Level
C310.1	Understand the importance of intellectual property rights in innovation and research	2-Understand
C310.2	Identify different types of intellectual property and their legal frameworks	1-Remember
C310.3	Analyze the process of patent filing, copyright registration, and trademark protection	4-Analyze
C310.4	Evaluate the role of IPR in business strategy, entrepreneurship, and technology transfer	5-Evaluate
C310.5	Demonstrate ethical awareness and responsibility in handling intellectual property	3-Apply

CO-PO MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C310.1						3	3	3				2			
C310.2						3	3	3				2			
C310.3						3	3	3				2			
C310.4						3	3	3				2			
C310.5									3	3					
Average						**3**	**3**	**3**	**3**	**3**		**2**			