III B.Tech I Semester

SUBJECT: DESIGN AND ANALYSIS OF ALGORITHMS(CS501PC)

Upon completion of the course the students get an idea of:

Course Code	Course Outcome	Bloom's Taxonomy Levels
CS501PC.1	Analyze the performance of algorithms	**4**
CS501PC.2	Choose appropriate data structures and algorithm design methods for a specified application	**4**
CS501PC.3	Understand the choice of data structures and the algorithm design methods	**2**
CS501PC.4	Ability to choose appropriate data structures and algorithm design methods for a specified application	**4**
CS501PC.5	Ability to understand how the choice of data structures and the algorithm design methods impact the performance of programs	**2**

MAPPING

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS501PC.1	3	2	2	1	1	1			1	1	2	2	1	1	
CS501PC.2	2	2	2		2		1	1			1	2		2	1
CS501PC.3	2	2	3	2		1			2	1	2	2	1	2	2
CS501PC.4	2	2	2	2	2					1	2	2		1	2
CS501PC.5	2	2	3	1	1	1	1		1	1	3	2	1	1	1
Average	2.2	2.0	2.4	1.5	1.5	1.0	1.0	1.0	1.3	1.0	2.0	2.0	1.0	1.4	1.5

III B.Tech I Semester

SUBJECT: COMPUTER NETWORKS *(CS502PC)*

Upon completion of the course the students get an idea of:

Course Code	Course Outcome	Bloom's Taxonomy Levels
CS502PC.1	Gain the knowledge of the basic computer network technology.	**1**
CS502PC.2	Gain the knowledge of the functions of each layer in the OSI and TCP/IP reference model.	**1**
CS502PC.3	Obtain the skills of sub netting and routing mechanisms.	**2**
CS502PC.4	Familiarity with the essential protocols of computer networks, and how they can be applied in network design and implementation.	**3**
CS502PC.5	Remembering requirements for web security and implementing security through SSL/TLS.	**2**

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS502PC.1	3	3	3	1	2				3	2	1	2	3	3	2
CS502PC.2	2	3	2	2	2	1	1		2	2		2	3	2	2
CS502PC.3	2	2		2	2	1			2		2	2	3	3	3
CS502PC.4	2	2	2						1		1	2	2	1	2
CS502PC.5	3	3	2	2	1			1	2	1		3	3	3	2
AVERAGE	**2**	**2.2**	**1.8**	**1.6**	**1.6**	**1.25**	**1**	**1**	**1.75**	**1.5**	**2.4**	**2.2**	**2.2**	**2.6**	**2.6**

III B.Tech I Semester

SUBJECT: DEVOPS (CS503PC)

Upon completion of the course the students get an idea of:

Course Code	Course Outcome	Bloom's Taxonomy Levels
CS503PC.1	Understand the various components of DevOps environment.	**1**
CS503PC.2	Identify Software development models and architectures of DevOps	**1**
CS503PC.3	Use different project management and integration tools	**3**
CS503PC.4	Select an appropriate testing tool and deployment model for project.	**4**
CS503PC.5	Develop a sound understanding of security and performance testing to safeguard releases from vulnerabilities	**6**

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS503PC.1	2	2	2	2	1		1			2	1	3	3	2	1
CS503PC.2	3	3	3	3	3	1			2	2		3	3	3	1
CS503PC.3	3	3	3	3	3				3	2	1	3	3	3	1
CS503PC.4	3	3	3	3	3			1	3	2		3	3	3	1
AVERAGE	**2.8**	**2.8**	**2.8**	**2.8**	**2.6**	**1**	**1**	**1**	**2.5**	**1.8**	**1**	**3**	**3**	**2.6**	**1**

III B.Tech I Semester

SUBJECT:PRINCIPLES OF PROGRAMMING LANGUAGES(CS515PE)

Upon completion of the course the students get an idea of:

Course Code	Course Outcome	Bloom's Taxonomy Levels
CS515PE.1	Acquire the skills for expressing syntax and semantics in formal notation	3
CS515PE.2	Identify and apply a suitable programming paradigm for a given computing application	3
CS515PE.3	Gain knowledge of the features of various programming languages and their comparison	1
CS515PE.4	Demonstrate strong conceptual knowledge in the functional area of production and marketing management.	3
CS515PE.5	Knows about the development and the judicial setup of Labour Laws.	2

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS307PC.1	2					1	2	2	2		2				2
CS307PC.2	2					2	1	2	2		2				2
CS307PC.3	1					1	1	1	2		2				2
CS307PC.4	1					1	1	1	2		2				2
CS307PC.5	2					1	2	1	2		2				2
AVERAGE	3.0	2.6	2.6	1.8	2.0	1.0	1.0	1.0	2.2	2.3	2.0	1.0	2.6	2.8	3.0

III B.Tech I Semester

SUBJECT:INFORMATION RETRIEVAL SYSTEMS (Professional Elective – II) (CS523PE)

Upon completion of the course the students get an idea of:

Course Code	Course Outcome	Bloom's Taxonomy Levels
CS523PE.1	Ability to apply IR principles to locate relevant information large collections of data	**2**
CS523PE.2	Ability to design different document clustering algorithms	**3**
CS523PE.3	Implement retrieval systems for web search tasks.	**4**
CS523PE.4	Design an Information Retrieval System for web search tasks.	**4**
CS523PE.5	To be able to work with different network tools	**4**

MAPPING

COURSE CODE	PO1	PO 2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS523PE.1	3	1	1	2	1	3	1		2	2	3	2	2	1	2
CS523PE.2	2	2	1	2	1	3	1	1	2		2	2	3	1	2
CS523PE.3	2	2	2	2	1	2	1		1			2	1	3	2
CS523PE.4	2	2	1	1	1				3	2		3	1	2	3
CS523PE.5	3	1	1		1				1	1	1	2	2	2	3
AVERAGE	**2.4**	**1.6**	**1.2**	**1.75**	**1**	**2.67**	**1**	**1**	**1.8**	**1.67**	**2**	**2.2**	**1.8**	**1.8**	**2.4**

III B.Tech I Semester

SUBJECT: COMPUTER NETWORKS LAB(CS504PC)

Upon completion of the course the students get an idea of:

Course Code	Course Outcome	Bloom's Taxonomy Levels
CS504PC.1	Implement data link layer farming methods	**2**
CS504PC.2	Analyze error detection and error correction codes.	**3**
CS504PC.3	Implement and analyze routing and congestion issues in network design.	**4**
CS504PC.4	Implement Encoding and Decoding techniques used in presentation layer	**2**
CS504PC.5	To be able to work with different network tools	**3**

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS304PC.1	3	2	3			1		1	1			2	2	1	3
CS304PC.2	3	2	2	2	1	1	1		1	1		2	2	2	2
CS304PC.3	3	2	3		2	1		1	1	2	1	1	3	2	2
CS304PC.4	3	2	2	2		1			1	2	1	3	2	2	2
CS304PC.5	3	2	3	1	3		1		1		1		3	1	3
AVERAGE	**3**	**2**	**2.6**	**1.67**	**2**	**1**	**1**	**1**	**1**	**1.67**	**1**	**2**	**2.4**	**1.6**	**2.4**

III B.Tech I Semester

SUBJECT:DEVOPS LAB(CS505PC)

Upon completion of the course the students get an idea of:

Course Code	Course Outcome	Bloom's Taxonomy Levels
CS505PC.1	Understand the need of DevOps tools	**1**
CS505PC.2	Understand the environment for a software application development	**1**
CS505PC.3	Apply different project management, integration and development tools	**3**
CS505PC.4	Use Selenium tool for automated testing of application	**2**

MAPPING

COURSE CODE	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS505PC.1	2	2	2	2	1		1			2	1	3	3	2	1
CS505PC.2	3	3	3	3	3	1			2	2		3	3	3	1
CS505PC.3	3	3	3	3	3				3	2	1	3	3	3	1
CS505PC.4	3	3	3	3	3			1	3	2		3	3	3	1
AVERAGE	**2.8**	**2.8**	**2.8**	**2.8**	**2.6**	**1**	**1**	**1**	**2.5**	**1.8**	**1**	**3**	**3**	**2.6**	**1**

III B.Tech I Semester

SUBJECT:ADVANCED ENGLISH COMMUNICATION SKILLS LAB(ES508HS)

Upon completion of the course the students get an idea of:

Course Code	CourseOutcome	Bloom's Taxonomy Levels
ES508HS.1	Acquire vocabulary and use it contextually	**4**
ES508HS.2	To enable them to listen to English spoken at normal conversational speed by educated English speakers	**2**
ES508HS.3	To respond appropriately in different socio-cultural and professional contexts	**2**
ES508HS.4	To communicate their ideas relevantly and coherently in writing	**3**
ES508HS.5	To prepare the students for placements.	**2**

MAPPING

COURSECODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
ES508HS.1	2	1	3	1	1	2	1	1	1	2		2	1	2	2
ES508HS.2	2	1	3	2	1		1			2	3	2	1	2	2
ES508HS.3	2	1	3		2	2		1	2	2	2	2	2	1	2
ES508HS.4	2	1	1	2	1	1			3	1	1	2	2	1	2
ES508HS.5	2	1		1		1			2	1		2	2	1	2
AVERAGE	**2**	**1**	**2.5**	**1.5**	**1.25**	**1.5**	**1**	**1**	**2**	**1.6**	**2**	**2**	**1.6**	**1.4**	**2**

III B.Tech I Semester

SUBJECT:UI DESIGN-FLUTTER(CS506PC)

Upon completion of the course the students get an idea of:

Course Code	Course Outcome	Bloom's Taxonomy Levels
CS506PC.1	Implements Flutter Widgets and Layouts	**4**
CS506PC.2	Responsive UI Design and with Navigation in Flutter	**2**
CS506PC.3	Create custom widgets for specific UI elements and also Apply styling using themes and custom styles.	**6**
CS506PC.4	Design a form with various input fields, along with validation and error handling	**6**
CS506PC.5	Fetches data and write code for unit Test for UI components and also animation	**6**

MAPPING

COURSECODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS506PC.1	2	1	3	1	1	2	1	1	1	2		2	1	2	2
CS506PC.2	2	1	3	2	1		1			2	3	2	1	2	2
CS506PC.3	2	1	3		2	2		1	2	2	2	2	2	1	2
CS506PC.4	2	1	1	2	1	1			3	1	1	2	2	1	2
CS506PC.5	2	1		1		1			2	1		2	2	1	2
AVERAGE	**2**	**1**	**2.5**	**1.5**	**1.25**	**1.5**	**1**	**1**	**2**	**1.6**	**2**	**2**	**1.6**	**1.4**	**2**

III B.Tech I Semester

SUBJECT:INTELLECTUAL PROPERTY RIGHTS(MC510)

Upon completion of the course the students get an idea of:

Course Code	Course Outcome	Bloom's Taxonomy Levels
MC510.1	Distinguish and Explain various forms of IPRs.	**5**
MC510.2	Identify criteria to fit one's own intellectual work in particular form of IPRs.	**5**
MC510.3	Apply statutory provisions to protect particular form of IPRs.	**3**
MC510.4	Appraise new developments in IPR laws at national and international level	**4**

MAPPING

COURSECODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
MC510.1	2	1	3	1	1	2	1	1	1	2		2	1	2	2
MC510.2	2	1	3	2	1		1			2	3	2	1	2	2
MC510.3	2	1	3		2	2		1	2	2	2	2	2	1	2
MC510.4	2	1	1	2	1	1			3	1	1	2	2	1	2
MC510.5	2	1		1		1			2	1		2	2	1	2
AVERAGE	**2**	**1**	**2.5**	**1.5**	**1.25**	**1.5**	**1**	**1**	**2**	**1.6**	**2**	**2**	**1.6**	**1.4**	**2**