Program Name : Master's of Computer Applications

Course outcome (CO)

MCA I Semester				MCA III Semester				MCAV Semester			
CA2111	CO1	Introduction to Cloud Computing and Security Problem in Computing		CA2311	CO1	By the completion of the course the students will be able to define a system and recognize the behaviour of a system.		CA2504	CO1	By the completion of the course the students will be able to define a system and recognize the behaviour of a system.	
	CO2	Understanding what Data Science is and the skill sets needed to be a data scientist			CO2	Students will be able to convert Finite Automata to regular expression.			CO2	Students will be able to convert Finite Automata to regular expression.	
	CO3	Basics on Machine learning and its application areas			CO3	Students will be able to understand and can check equivalence of CFL and PDA			CO3	Students will be able to understand and can check equivalence of CFL and PDA	
CA2112	CO1	Describe fundamental elements of a relational database management system		CA2312	CO1	Describe, apply and analyze the complexity of certain divide and conquer, greedy, and dynamic programming algorithms.		CA2502	CO1	Describe, apply and analyze the complexity of certain divide and conquer, greedy, and dynamic programming algorithms.	
	CO2	Explain the basic concepts of relational data model, Entity-Relationship model, relational database design, relational algebra and database language SQL			CO2	Choose the appropriate algorithmic design technique for their solution.			CO2	Choose the appropriate algorithmic design technique for their solution.	
	CO3	Design Entity-Relationship diagrams to represent simple database application scenario.			CO3	Describe the classes P, NP, and NP-Complete and be able to prove that a certain problem is NP- Complete.			CO3	Describe the classes P, NP, and NP-Complete and be able to prove that a certain problem is NP- Complete.	

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CA2113	CO1	To explain the evolution, objectives and functions of modern operating systems and analyze the trade-offs inherent in operating system design.		CA2313	CO1	Understand the evolution of UNIX/Linux Operating System along with its functional architecture.		CA2505	CO1	Understand the evolution of UNIX/Linux Operating System along with its functional architecture.	
	CO2	To identify potential threats to operating systems and the security features to counter the threats.			CO2	Observe and analyze the internals of UNIX/Linux operating systems with its supported utilities.			CO2	Observe and analyze the internals of UNIX/Linux operating systems with its supported utilities.	
	CO3	To describe the influences of open source software, the internet on the operating system design.			CO3	Learn the abilities to design and distribute administrative power of the UNIX-based system among different stakeholders/users.			CO3	Learn the abilities to design and distribute administrative power of the UNIX-based system among different stakeholders/users.	
					CO4	Understand the organization of UNIX system calls and file systems to utilize it during the development of desired application.			CO4	Understand the organization of UNIX system calls and file systems to utilize it during the development of desired application.	
	CO1	To enable the students to understand the basic concepts of book-keeping and accounting		CA2344	CO1	Students will be able to understand the techniques behind the recent development in supervised classification.			CO1	To understand the foundations and mathematical basics of Cryptography	
	CO2	To familiarize students with the mechanics of preparation and interpretation of financial statements during a period.			CO2	Students will be able to implement classification and outlier analysis program.			CO2	To understand various ciphers.	

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BA2110	CO3	To enable the students to understand relevance of the basic concepts of macro and micro-economics which are significance in day-to-day business world.			CO3	Students will be able to design small projects in related field.		CA2550	CO3	To understand encryption and key exchange algorithms.	
	CO4	To provide understanding of the subject's relationship with other funcitonal areas of business management.							CO4	To understand the application of Cryptography.	
CA2114	CO1	Students will able to understand the concepts of Object Oriented programming language.		CA2352	CO1	To understand the foundations and mathematical basics of Cryptography.		CA2545	CO1	Students will be able to understand the techniques behind the recent development in supervised classification.	
	CO2	Students will able to develop software using JAVA concepts.			CO2	To understand various ciphers.			CO2	Students will be able to implement classification and outlier analysis program.	
	CO3	Students will able to understand the network concepts through JAVA programming language.			CO3	To understand encryption and key exchange algorithms.			CO3	Students will be able to design small projects in related field.	
					CO4	To understand the application of Cryptography.					
				CA2345	CO1	Students will be able to understand the concepts of Big data.		CA2546	CO1	Students will be able to understand the concepts of Big data.	
					CO2	Students will be able to understand categorization and modelling.			CO2	Students will be able to understand categorization and modelling.	

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				CA2353	CO1	Remember the basic terminologies related to network security		CA2551	CO1	Remember the basic terminologies related to network security	
					CO2	Understand the basic concept and overview of authentication and digital signature			CO2	Understand the basic concept and overview of authentication and digital signature	
					CO3	Analyze and understand various security threats to the internet applications and their security			CO3	Analyze and understand various security threats to the internet applications and their security	
					CO4	Understand the concepts of malicious software and the counter measures for those threats.			CO4	Understand the concepts of malicious software and the counter measures for those threats.	

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