

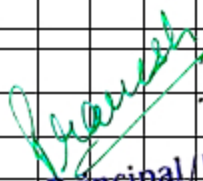
Krupanidhi Group of Institutions Bangalore

(Affiliated to Bangalore University)


PO-PSO Mapping to Course Outcomes

Department of Computer Applications(MCA)

Master of Computer Applications																				
Sem	Course	Course Outcomes	Core/Specialisation Add On	Computational Knowledge	Problem Analysis	Design/Development of Solutions	Conduct Investigations of Complex Computing Problems	Modern Tool Usage	Professional Ethics	Life-long Learning	Project management and finance	Communication Efficacy	Societal and Environmental Concern	Individual and Team Work	Innovation and Entrepreneurship	Knowledge Engineering	Programming	Advanced SE	Information Security	
			C/S/AOC	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	
Probability and Statistics	MCA101.1	Have a fundamental understanding of Probability, conditional probability and Bayes theorem.	C	2	2	1	2													
	MCA101.2	Understand and describe various probability distributions.		2	2	1														
	MCA101.3	Calculate and interpret measures for the centre and spread of a data set.		2	3		3													
	MCA101.4	Identify when correlation and regression analyses are Appropriate		2	3		3													
	MCA101.5	To have the concept of sampling and estimation and Perform hypothesis testing.		2	2	1	2													
Computer Organization and Architecture	MCA102.1	Understanding of number systems and representations	C	3	1															
	MCA102.2	Understanding of Boolean algebra, design and implementation of various logic circuits		1	3	3														
	MCA102.3	Understanding of various types of memories and their working		1		3														
	MCA102.4	Understanding how instructions are executed by the processor			2	3														
	MCA102.5	Ability to understand various data transfer techniques between the processor and I/O devices		3																
Problem Solving with Structured Programming in C	MCA103.1	Identify and use appropriate C language constructs to solve problems.				3											2			
	MCA103.2	Implement algorithms using Control Structures in C				3											3			
	MCA103.3	To understand the concept of code reusability with the help of user defined functions.				2											3			
	MCA103.4	To understand pointers for implementing dynamic memory allocation and solving memory access problems.				2											3			
	MCA103.5	To understand the concept of file system for handling data storage and apply it for solving problems.				2											3			
DBMS	MCA104.1	Have good understanding of the relational data model.		2	1															
	MCA104.2	Understand and successfully apply logical database design principles, E-R diagrams.		2	1															
	MCA104.3	Understand normalizing database		2	1															
	MCA104.4	Gain ability to write database queries using SQL..		3				1												


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1		MCA104.5	Understand the concept of database transactions, concurrency control, backup, recovery, locking protocols, Security and Integrity.		2	1													
	Essentials of Management and	MCA105.1	Understand the basic concepts of management, evolution of management, clear knowledge of the management function like planning & organizing, Different School of thought		2			2				2							
		MCA105.2	Understand the different management functions in detail.		2							2							
Organizational Behaviour	MCA105.3	Understand the concept of motivational theories , coordination & controlling, leadership		3			2				2	2	3						
	MCA105.4	Understand basics of marketing, sales promotion , global Marketing					2					3							
	MCA105.5	Understand basic of Organizational behaviour, models of OB ,attitudes ,behavior					2				2	3							
C Lab	MCA106.1	Write C programs and learn how to edit, compile, debug, correct, recompile and run it.				1		1										3	
	MCA106.2	Given a computational problem, identify and abstract the programming task involved and implement it using appropriate C language constructs.		2	2		1											3	
	MCA106.3	Understand and Implement user defined functions, procedures, pointers and file systems		2	2		1											3	
	MCA106.4	To understand the different coding standards and conventions for writing a readable and simple code					1											3	
	MCA106.5	Debug and trace the execution of programs written in C language.					1											3	
DBMS Lab	MCA107.1	To design, create and alter relational tables and include integrity Constraints		3	1		1												
	MCA107.2	To insert , delete and update records in a table		3			1												
	MCA107.3	Gain ability to write data retrieval queries, subqueries using SQL.		3	2		1												
	MCA107.4	To write queries for joining multiple tables.		3	2		1												
	MCA107.5	To implement the concept of triggers, procedures and functions using PL/SQL.		3	2														
Operations Research	MCA201.1	Formulate a real-world problem as a mathematical programming model.		2	1														
	MCA201.2	Understand the theoretical workings of the simplex method for linear programming and perform iterations of it by hand.					2												
	MCA201.3	Solve specialized linear programming problems like the transportation and assignment problems		2			1												
	MCA201.4	Understand the basic concept of game theory and queuing theory.		2	1														
	MCA201.5	Understand the network analysis techniques and Simulation.		2			2												
Operating Systems	MCA201.1	Formulate a real-world problem as a mathematical programming model.					3												
	MCA201.2	Understand the theoretical workings of the simplex method for linear programming and perform iterations of it by hand.		1			3												
	MCA201.3	Solve specialized linear programming problems like the transportation and assignment problems		2			3												
	MCA201.4	Understand the basic concept of game theory and queuing theory.					3												

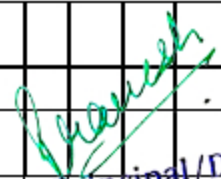

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II

	MCA201.5	Understand the network analysis techniques and Simulation.				1		2										
C++ and Object Oriented programming Paradigms	MCA203.1	To introduce the object oriented concepts				3												2
	MCA203.2	To familiarize with constructors, destructors and pointers in CPP				3												2
	MCA203.3	To perform overloading and type conversions				3												2
	MCA203.4	To gain knowledge in inheritance				3												2
	MCA203.5	To familiarize the features such as templates and exception Handling				3												2
Software Engineering	MCA204.1	To analyse, design and manage the development of a computing based system, component or process to meet desired needs within realistic constraints in one or more application domains.				2	3	2					2	3				2
	MCA204.2	To understand software testing and quality assurance techniques at the module level, and understand these techniques at the system level				2	2						2					2
	MCA204.3	To use knowledge, techniques, skills and modern tools necessary for software engineering practice					2						2					
	MCA204.4	To function on multidisciplinary teams											1	2	3			
	MCA204.5	To communicate effectively with stakeholders involved in Projects											1	3	2			
Data Structures	MCA205.1	To differentiate the linear and nonlinear data structures				3							1		2	2		2
	MCA205.2	Implement the various kinds of sorting and searching techniques.					3						1		2	2		2
	MCA205.3	To implement the concept of nonlinear data structures using arrays and linked list.				3		2						1		2	2	2
	MCA205.4	Familiarize the concept of advanced data structures like red black trees,avl trees etc. .					3							1		2	2	2
	MCA205.5	Implement the concept of balancing a tree and the rotations to do it.					2							1		2	2	2
CPP Lab	MCA206.1	To develop programs with object oriented programming concepts using C++.				3	3	3										
	MCA206.2	To implement generic programming						3										
	MCA206.3	To implement exception handling				2		2										
DS Lab	MCA207.1	To implement the linear data structures like arrays, linked list.				3		3										1
	MCA207.2	To implement the various kinds of sorting and searching techniques.				3		3										1
	MCA207.3	To implement the concept of stacks using arrays and linked list.				3		2										1
	MCA207.4	To implement the concept of queues using arrays and linked list.				3		2										1
	MCA207.5	To implement the concept of nonlinear data structures like graphs and trees.						2										1
System Administration			AOC	X														
	MCA301.1	Understand and use asymptotic notations to analyse the performance of basic algorithms				3		2										
	MCA301.2	Identify, analyse and evaluate various Algorithm Design Strategies and solve Problems: Divide And Conquer, Branch and Bound, Backtracking strategies				3	3	2										

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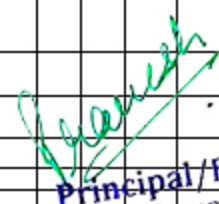
Design and Analysis of Algorithms	MCA302.3	Identify an algorithm and apply it to the most algorithmic design and strategies and develop problem dynamic programming, Greedy Strategies	3	3	3	2	3												
	MCA302.4	Identify an algorithm and apply it to the most algorithmic design and strategies and develop problem dynamic programming, Greedy Strategies	3	3	1	2	2												
	MCA302.5	Understand the basic concept of Number Theory and related formalizes the student with the basic reasoning and protocols used in the Data Link layer of OSI reference Model	3	3		2	2												
Data Communications and Computer Networks	MCA302.4	Introduce the student to advanced networking concepts like wired and wireless protocols, and routing algorithms	3	3		2													
	MCA302.5	Build an understanding of IP addressing and multicasting	3	2		2													
System Software and Compiler Design	MCA303.1	To operationalise the relationship between system software and machine architecture.	3	1		2													
	MCA303.2	To Distinguish the design and implementation of assemblers, linkers and loaders.	3	1		2													
	MCA303.3	To Have knowledge of the design of compilers	2	1		3													
	MCA303.4	To implement automata theory	2	1		3													
	MCA303.5	To apply the design and implementation of parsers.	2	1		3													
Java Programming	MCA304.1	Ability to solve problems using only pure object oriented concepts	2	2	1							2						2	
	MCA304.2	Make decision to solve a problem using package, library and threads Handling Errors and Exceptions	2	2	1		2					2						2	
	MCA304.3	Able to develop networking applications	2	2	2							2						1	
	MCA304.4	Ability to design and develop database applications	2	2	2		2					2							
	MCA304.5	Design and develop software solutions	2	2	2		2			1		2							3
Computer Graphics and Multimedia	MCA305.1	Provide a platform to plot the basic graphics primitives like points , lines , polygons, curves etc.					3												
	MCA305.2	Facilitate to apply both two dimensional and three dimensional transformations to images drawn.			3														
	MCA305.3	Display an image by removing all unwanted, invisible parts using clipping techniques for lines and polygons.			3														
	MCA305.4	Create 3D objects and represent those using parametric curves.					3												
	MCA305.5	Ability to develop graphics applications using Open GL and Learn the concepts of audio and video compression in multimedia.					3												
Java Lab	MCA306.1	Ability to solve problems using only pure object oriented concepts	2	2	1														2
	MCA306.2	Make decision to solve a problem using package, library and threads Handling Errors and Exceptions	2	2	1		2												2
	MCA306.3	Able to develop networking applications	2	2	2														1
	MCA306.4	Ability to design and develop database applications	2	2	2		2												
	MCA306.5	Design and develop software solutions	2	2	2		2			1									3
Computer Graphics Lab	MCA306.1	Plot the basic graphics primitives like points , lines , polygons, curves etc. using OpenGL.					3												
	MCA306.2	Implement two dimensional and three dimensional transformations using OpenGL.			3														
	MCA306.3	Eliminate all unwanted, invisible parts using Cohen Sutherland line clipping and Sutherland Hedgeman polygon clipping algorithm.			3														
	MCA306.4	Create 3D objects and represent those using parametric curves.					2												


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	MCA306.5	Image editing and animation using Adobe Photoshop and Flash								3												
	Yoga		AOC								X											
Internet Programming using Framework	MCA401.1	Ability to solve problems using only pure object oriented concepts and frameworks		2	2	1									2	2			2			
	MCA401.2	Ability to design and develop database applications		2	2	1			2						2	2			2			
	MCA401.3	Able to develop networking and distributed applications		2	2	2									2	2			1			
	MCA401.4	Ability to design GUI applications		2	2	2			2						2	2			2			
	MCA401.5	Design and develop Web applications		2	2	2			2			1			2	2			3			
Business Processes and Information Systems		C							X		X											
Object Oriented Modelling and design with UML		C									X				X							
Internet Programming using Framework lab	MCA406.1	Ability to solve problems using only pure object oriented concepts and frameworks		2	2	1									2	2			2			
	MCA406.2	Ability to design and develop database applications	C	2	2	1			2						2	2			2			
	MCA406.3	Able to develop networking and distributed applications		2	2	2									2	2			1			
	MCA406.4	Ability to design GUI applications		2	2	2			2						2	2			2			
	MCA406.5	Design and develop Web applications		2	2	2			2			1			2	2			3			
Mini Project	MCA407.1	To understand and implement a requirement study and feasibility assessments of a given system.		1	2						2				2				2			
	MCA407.2	To facilitate the preparation of an SRS detailing the project management concepts, techniques and issues related to implementation.	C	1	2						2				3				2			
	MCA407.3	To describe analysis and design methodologies.		2	2						3				3				2			
	MCA407.4	To develop a real time system with adequate software project planning and tracking		2	2						3				3				2			
	MCA407.5	To perform adequate testing and further, implement the system using PHP		2	2						2				3				2			
Technical Writing		AOC												X								
Data Mining	MCA501.1	To introduce the students, the basic concepts and techniques of Data mining and Warehousing and data pre-processing.		3	2	1													2			2
	MCA501.2	Understand association mining algorithms for discovery of frequent item patterns in large data sets and their Visualizations	C	1	1			1											1			2
	MCA501.3	Understand classification analysis algorithms for discovery and generation of rules in large data sets and their Visualizations		1	1			1											1			2
	MCA501.4	Understand basic and advanced clustering analysis algorithms and Visualizations in Data Mining.		1	1			1											1			2
Linux Administration, Management and Networking	MCA502.1	To introduce the configuration and file system of a Linux OS		1						3												2
	MCA502.2	To Design and implement programs with shell scripts	C			1				3												2
	MCA502.3	To Familiarize with Linux administrative roles and settings				1				2												3
	MCA502.4	To check and monitor performance of Linux systems		1						2												3
	MCA502.5	To introduce Linux networking		1						2												3
MCA503.1	To comprehend the working of the parallel architectures		1				2														2	
MCA503.2	To parallel solve complex problems using task/channel model	C	2				3														2	

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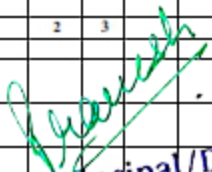
Sem	Specialisations	C/S/AOC	C/S/AOC																		
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4			
III	Parallel Programming	MCA503.3	To implement shared memory model in parallel programs				2													3	
		MCA503.4	To implement Message passing model in parallel programs.							3	3										3
	Linux Lab	MCA503.5	To learn and implement Basic programs in CUDA							3											3
		MCA506.1	To introduce the configuration and file system of a Linux OS. Command knowledge				3			1											2
		MCA506.2	To Design and implement programs with shell scripts	C			3			2											2
		MCA506.3	To Familiarize with Linux administrative roles and settings		1		2			2											3
MCA506.4	To check and monitor performance of Linux systems		1		2			1												3	
MCA506.5	To introduce Linux networking		1		2			1												3	
IV	Data Warehousing	MCA411.1	Understand the fundamentals of data warehouse and its Elements						1											3	
		MCA411.2	Understand the basic architecture of a data warehouse and data Staging	C					2											3	
		MCA411.3	Understand metadata and its management and Multidimensional data models, operations, OLAP, ROLAP, MOLAP.						3											3	
		MCA411.4	Understand designing and building of data warehouse								3									3	
		MCA411.5	Understand data layout for best access in multidimensional data model and data pre-processing tools.								3									3	
	Digital Image Processing	MCA412.1	Review the fundamental concepts of a digital image processing system and Analyze images in the frequency domain using various transforms.		3				3											3	
		MCA412.2	Evaluate the techniques for image enhancement and image restoration.	C	2				3											3	
		MCA412.3	Categorize various compression techniques and Interpret Image compression standards.		2				3											3	
		MCA412.4	Interpret imagesegmentation and representation techniques.		2				3											3	
		MCA412.5	Understand various image processing applications		2				3											3	
	Soft Computing	MCA413.1	Learn about soft computing techniques and their applications		3				3											3	
		MCA413.2	Define the fuzzy systems	C	2				3											3	
		MCA413.3	Analyse various neural network architectures		2				3											3	
		MCA413.4	Understand the genetic algorithm concepts and their Applications		2				3											3	
		MCA413.5	Identify and select a suitable soft-computing technology to solve a problem, construct a solution and implement a soft-computing solution		2				3											3	
Big Data Analytics	MCA511.1	Understand the concept and challenge of big data and whyexisting technology is inadequate to analyse the big data;		1	2			3	3										3		
	MCA511.2	Collect, manage, store, query, and analyse various form of Bigdata	C	1	2			3	3										3		
	MCA511.3	Gain hands-on experience on large-scale analytics to solvesome open big data problems by understanding and mining data Streams		1	2			3	3										3		
	MCA511.4	Understand the impact of big data for business decisions andstrategy using advanced clustering techniques		1	2			3	3										3		
	MCA511.5	Understand the concepts of frameworks and techniques to visualize the output		1	2			3	3										3		


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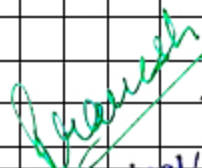
V	Information Retrieval Analytics	MCA512.1	Apply information retrieval principles to locate relevant information in large collections of data		1	2							3						
		MCA512.2	Understand and deploy efficient techniques for the indexing of document objects that are to be retrieved	C	1	2								3					
		MCA512.3	Implement features of retrieval systems for web-based and other search tasks						2						3				
		MCA512.4	Analyse the performance of retrieval systems using test Collections						2						3				
		MCA512.5	Make practical recommendations about deploying information retrieval systems in different search domains, including considerations for document management and querying						2						3				
Social Media Mining	MCA513.1	Understand the essentials like graph, Network measures and models for simulating social media models							3					3					
	MCA513.2	Understand data mining essentials for social media mining.	C					2						3					
	MCA513.3	Find and analyze communities in social media.		3								3		3					
	MCA513.4	Understand the concept of Influence and Homophily. Analyze and perform recommendations in Social Media			3							3		3					
	MCA513.5	Understand Behaviour Analytics in social Media			3							3		3					
J2EE	MCA421.1	To understand and develop web applications using Servlets and Implement a code in JDBC to communicate with database		1													3		
	MCA421.2	To learn and comprehend the JSP Technologies	C	2													3		
	MCA421.3	To learn RMI architectures			2												2		
	MCA421.4	Build Enterprise Applications using Session Bean, Entity Bean and MDB			2												3		
	MCA421.5	To learn Bean based queries, transactions															2		
Open Source Lab PHP	MCA423.1	To implement applications using AngularJS frame Work		2	2							2					3		
	MCA423.2	Applying the frame work in real applications	C	2	2							2					3		
	MCA423.3	To implement filters in applications		2	2							2					3		
	MCA423.4	To apply the services and modules in applications		2	2							2					3		
	MCA423.5	Applying the framework to solve complex problems		2	2					3		2					3		
Android	MCA423.1	Able to develop simple apps		2	2	1			3			2					2		
	MCA423.2	Able to develop apps based on different types of menus	C	2	2	1			3			2					2		
	MCA423.3	Make decision to solve a problem using package, library and threads Handling Errors and Exceptions		2	2	2						2					1		
	MCA423.4	Ability to design and develop database applications		2	2	2			3			2					3		
	MCA423.5	Able to design and develop mobile applications works with internet applications		2	2	2			3			2					3		
Struts and Hibernate	MCA521.1	Facilitate understanding of the Model-View-Controller (MVC) design pattern and how it is best applied to Java Web application development with respect to a scenario.		1	2	2													
	MCA521.2	Ability to map entities and attributes using modern tools	C						3										
	MCA521.3	Create different types of persistent classes and Map java inheritance hierarchy with database tables using various mapping techniques				2													
	MCA521.4	Fetch data effectively from database using traditional SQL and Hibernate Query Language		1					2										
V	MCA521.5	Ability to provide computational solutions for real life problems										3	2		2		3		
	MCA522.1	Understand the data types in python		3													1		

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Open Source Lab – Python	MCA522.2	Ability to understand object oriented programming concepts and write programs in python. Handling Errors and Exceptions	C			2	3							1	3			
	MCA522.3	Ability to design and develop database applications				2									3			
	MCA522.4	Ability to design and develop web pages/ applications				2	3								3			
Developing Mobile Applications with iOS Platform			S				X								X			
Software Requirements Engineering	MCA 431.1	To identify and understand the different categories of requirements in an effective manner		2	3					2		2					2	
	MCA 431.2	To gain knowledge in the various elicitation techniques ,elicitation process	C	2	2	2		3		2							2	
	MCA 431.3	To understand requirements specification process and the various modelling techniques		2	2	2				2								2
	MCA 431.4	To become well versed in the requirements verification process.		2	2			2		2		2						2
	MCA 431.5	To gain knowledge in requirements management.		2	2					3		2						2
Software Design and architecture	MCA431.1	Learn the goals of software design and the patterns for designing the software.		3	2													3
	MCA431.2	Know the need and use of software architecture such as classical , event based etc	C							3								3
	MCA431.3	Introduce framework and the methods for automated and dynamic analysis .									3							3
Software Testing	MCA 433.1	To gain a basic knowledge in testing.		2	2					2								2
	MCA 433.2	To understand different levels of testing and their issues	C	2	2	3				2								2
	MCA 433.3	To gain knowledge about testing methods.		2	2	3				2								2
	MCA 433.4	To understand test management		2	2	3				2								2
	MCA 433.5	To gain knowledge about different testing tools		2	2	2		3			2							2
Software Project Management	MCA531.1	To conduct project planning activities that accurately forecast project costs, and resources								3								2
	MCA531.2	To impart knowledge on activity planning and resource Allocation	C							3								2
	MCA531.3	To perform monitoring, control and project closure successfully								3								2
	MCA531.4	To be specialized in risk management concepts								3								2
	MCA531.5	To be familiar with project management tools and certifications								3								2
Software Risk Management	MCA533.1	Learn the basics of software risk and to classify them.		2	3													3
	MCA533.2	Familiarize the assessment of risks using tools.	C							3								3
	MCA533.3	Introduce the response to risk and the activities for maintenance.									2							3
User Interface Design	MCA532.1	To gain an understanding of human computer interface and Interaction								2								3
	MCA532.2	To understand the user design interface process and learn direct/indirect methods	C								2							3
	MCA532.3	To implement and use windows components in design									2							3
	MCA532.4	To implement multimedia facilities in prototypes									2							3
	MCA532.5	To use software and paper prototyping tools to design user interfaces that take into account human capabilities and constraints, users' needs, usability goals and user experience Goals									2							3


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IV	Mathematical Foundations of Information Security	MCA441.1	Understand and apply concepts of Ethical hacking and Footprinting		1			1												2	
		MCA441.2	To know the basics of System hacking and enumerations	C	1			2													2
		MCA441.3	Differentiate the concepts of Trojans, viruses and worms					1	2		1										3
		MCA441.4	To understand the vulnerabilities of web applications and monitor the hacks					1	2												3
		MCA441.5	To understand SQL injections and Android Hacking					1	2												3
	Web and Database Security	MCA442.1	Learn the Web application architecture, its components and potential security weaknesses.																		2
		MCA442.2	To impart knowledge about securing web application.	C	1									1							2
		MCA442.3	Learn the levels of database security and SQL injection.		1																2
	Emerging Security Technologies	MCA443.1	Have an idea about various information hiding techniques and their need.		3																3
		MCA443.2	Understand the concept of steganography and different methods of implementing steganography	C	2																3
		MCA443.3	Understand the concept of watermarking		3																3
		MCA443.4	Have the knowledge about digital right management		3																3
		MCA443.5	Various applications of information hiding techniques		3																3
	Network Security Architecture	MCA541.1	To be familiar with wired and wireless network protocols.		1	1															2
		MCA541.2	Have a working knowledge of intrusion detection and malicious software.	C	1	1	1														2
MCA541.3		To Know the working of IPsec.		1																2	
MCA541.4		To be familiar with web security.		1																2	
MCA541.5		Understand the email security protocols like PGP, S/MIME and PEM.		1	1															2	
Wireless Security	MCA502.1	Understand the concept of wireless network protocols.																		2	
	MCA502.2	To impart knowledge about Viruses, WAP and WEP.	C										1							2	
	MCA502.3	Learn the RFID technology and its applications.		1		1							1							2	
	MCA502.4	Understand wireless hacking techniques and mobile security.											1							2	
V	Cyber Forensics	MCA543.1	Interpret and appropriately apply the laws and procedures associated with identifying, acquiring, examining and presenting digital evidence.		2	3	2													2	
		MCA543.2	Create a method for gathering, assessing and applying new and existing legislation and industry trends specific to the practice of digital forensics.	C	2	2	3													2	
		MCA543.3	Employ fundamental computer theory in the context of computer forensics practices.		3																1
		MCA543.4	Adhere to the ethical standards of the profession and apply those standards to all aspects of the study and practice of digital forensics.		1						3			1							3
		MCA543.5	Evaluate the effectiveness of available digital forensics tools and use them in a way that optimizes the efficiency and quality of digital forensics investigations		1	2				3											2
Course Aggregate				137	111	98	48	70	10	17	22	18	12	41	28	42	62	38	39		


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