

P.G. DEPARTMENT OF COMPUTER APPLICATIONS

Programme Outcomes

PO1.

To prepare students to face the industry/ academia/technical profession with confidence

PO2.

To provide students with solid foundation in mathematical and computing fundamentals and techniques required to solve related problems and also to pursue higher studies and research and to train students with good computing breadth so as to comprehend, analyze, design and create computing solutions for the real life problems

Programme Specific Outcomes

PSO1 Graduates will acquire knowledge of basic mathematics, computing fundamentals, programming concepts and other core computer subjects.

PSO2 Graduates will have an ability to identify, formulate and implement computing solutions.

PSO3 Graduates will have an ability to design and conduct experiments, analyze and interpret data.

PSO4 Graduates will be able to design a system, component or process as per needs and specification.

PSO5 Graduates will demonstrate effects of computing solutions on the society.

Programme code:	MCA	Programme Title :	Master of Computer Application	
Course Code:	20PMC101	Title	Batch :	2020
		Digital Fundamentals and Computer Organization	Semester	I
Hrs/Week:	4		Credits:	4

Course Outcomes (CO)

K1	CO1	To remember the concept of machine languages and number system
K2	CO2	To get the idea of logical circuits and boolean equation
K3	CO3	To understand the structure and function of system architecture
K4	CO4	To apply with the real world problems
K5	CO5	To Elaborate advanced concepts of computer architecture, Parallel Processing, inter processor communication and synchronization

Programme code:	MCA	Programme Title :	Master of Computer Applications	
Course Code:	20PMC102	Title	Batch :	2020
		Programming in Java	Semester	I
Hrs/Week:	4		Credits:	4

Course Outcomes (CO)

K1	CO1	To remember the syntax and the concept of Java
K2	CO2	To understand the format and the usage of the coding
K3	CO3	To implement the concept in terms of programming
K4	CO4	To analyze and interpret the concept
K5	CO5	Application of OOPs Concept using Java

Programme code:	MCA	Programme Title :	Master of Computer Applications	
Course Code:	20PMC103	Title	Batch :	2020
		Database Technology	Semester	I

Hrs/Week:	4		Credits:	4
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Course Outcomes (CO)

K1	CO1	To remember the fundamentals of data models to conceptualize and depict a database system
K2	CO2	To understand the relational database implementation using SQL with relational database design concepts.
K3	CO3	To apply the internal storage structures using different file and indexing Techniques
K4	CO4	To Analyze the database design procedure for large enterprise database design
K5	CO5	Analyze and design a real database application.

Programme code:	MCA	Programme Title :	Master of Computer Applications	
Course Code:	20PMC104	Title	Batch :	2020
		Mathematical Foundation Course – Elective - I	Semester	I
Hrs/Week:	4		Credits:	4

Course Outcomes (CO)

K1	CO1	To remember the basic principles and practices of computing grounded in mathematics and science
K2	CO2	To understand the Problems using various linear Algorithms
K3	CO3	To apply algorithms to the decision making problems
K4	CO4	To analysis the programming algorithms with exercises
K5	CO5	To Summarize the inventory and queuing models

Programme code:	MCA	Programme Title :	MCA	
Course Code:	20PMC105	Title	Batch :	2020
		Data and File Structures	Semester	I
Hrs/Week:	4		Credits:	4

Course Outcomes (CO)

K1	CO1	To remember the importance of Algorithms and Data structure concept
K2	CO2	To understand the Algorithms and Data structures used for solving a problem are much more important than knowing the exact code for it in some programming language.
K3	CO3	To apply an insight into the intrinsic nature of the problem as well as possible solution techniques, independent of programming language or any other implementation technique.
K4	CO4	To Analyze the Algorithms and Data structures in productive programmer
K5	CO5	Ability to choose appropriate algorithm design techniques for solving Problems.

Programme code:	MCA	Programme Title :	MCA	
Course Code:	20PMC106	Title	Batch :	2020
		Lab I Programming in Java	Semester	I
Hrs/Week:	5		Credits:	2

Course Outcomes (CO)(for Practical Only)

K3	CO1	To remember and recollect the concept of Java
K4	CO2	To get the idea of java syntax and its structure
K5	CO3	To validate the projects using Java

Programme code:	MCA	Programme Title :	Master of Computer Applications	
Course Code:	20PMC107	Title	Batch :	2020
		LABII Database Technology Lab	Semester	I
Hrs/Week:	5		Credits:	2

Course Outcomes (CO)(for Practicals Only)

K3	CO1	To remember and recollect the concept of visual basic and sql statements		
K4	CO2	To get the idea of visual basic structure and DDL,DML,DTL statement		
K5	CO3	To validate the projects using VB and oracle database		
Programme code:	MCA	Programme Title :	Master of Applications	
Course Code:	20PMC208	Title	Batch :	2020
		Computer Networks	Semester	II
Hrs/Week:	4		Credits:	4

Course Outcomes (CO)

K1	CO1	To remember the concept of OSI and TCP network models and the layers associated functionalities
K2	CO2	To understand different types of network models and topology
K3	CO3	To apply different types of error detection and correction mechanisms
K4	CO4	To Analyze flow control and Error control mechanism using network layer concept
K5	CO5	Evaluate the modern network architecture, protocols and applications

Programme	MCA	Programme Title :	Master of Computer
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code:			Applications	
Course Code:	20PMC209	Title	Batch :	2020
		Elective I Programming in Python	Semester	II
Hrs/Week:	4		Credits:	4

Course Outcomes (CO)

K1	CO1	To remember the principles of structured programming Recognize and construct common programming idioms: variables, loop, branch, subroutine, and input/output.
K2	CO2	To understand the common programming idioms: variables, loop, branch, subroutine, and input/output
K3	CO3	To deploy the concepts of lists, tuples, dictionaries, standard libraries, modular programming and the design of user interfaces
K4	CO4	To figure out ability to analyze and solve the problems using advanced facilities of the Python language
K5	CO5	Apply the best features of Python to program real life problems

Programme code:	MCA	Programme Title :	Master of Computer Applications	
Course Code:	20PMC210	Title	Batch :	2020
		Software Project Management – Elective II	Semester	II
Hrs/Week:	4		Credits:	4

Course Outcomes (CO)

K1	CO1	To remember and recollect the concept of software engineering
K2	CO2	To get the idea of various phases of software engineering
K3	CO3	To understand the coding part of software projects
K4	CO4	Understood the Activity Planning , Risk Management
K5	CO5	Case studies

Programme code:	MCA	Programme Title :	Master of Computer Applications	
Course Code:	20PMC211	Title	Batch :	2020
		Information security	Semester	II
Hrs/Week:	4		Credits:	4

Course Outcomes (CO)

K1	CO1	To remember the concept of SDLC and secSDLC
K2	CO2	To understand the concept of security attacks, threats and issues
K3	CO3	To apply the concept of risk management
K4	CO4	To analysis the concept of logical and physical design
K5	CO5	To know the methods of conventional encryption.

Programme Code:	MCA	Programme Title :	Master of Computer Applications	
Course Code:	20PMC212	Title	Batch :	2020
		Web Technology	Semester	II
Hrs/Week:	4		Credits:	4

Course Outcomes (CO)

K1	CO1	To remember the basic structure of JavaScript and create dynamic WebPages
K2	CO2	To understand the dynamic WebPages validation
K3	CO3	To apply the WebPage design using various scripting language
K4	CO4	To analysis the design concept to various web site design development
K5	CO5	To Analysis the concept of dynamic web page creation

Programme code:	MCA	Programme Title :	Master of Computer Applications	
Course Code:	20PMC213	Title:	Batch :	2020
		Lab III Programming in Python	Semester	II
Hrs/Week:	5		Credits:	2

Course Outcomes (CO)

K3	CO1	To remember the principles of structured programming Recognize and construct common programming idioms: variables, loop, branch, subroutine, and input/output.
K4	CO2	To understand the common programming idioms: variables, loop, branch, subroutine, and input/output
K5	CO3	To figure out ability to analyze and solve the problems using advanced facilities of the Python language

Programme code:	MCA	Programme Title :	Master of Computer Applications	
Course Code:	20PMC214	Title	Batch :	2020
		Lab – IV Web Technology Lab	Semester	II
Hrs/Week:	5		Credits:	2

Course Outcomes (CO)(for Practicals Only)

K3	CO1	To remember and recollect the concept of scripting language
K4	CO2	To get the idea of scripting syntax and its structure
K5	CO3	To validate the projects using scripting language

Programme code:	MCA	Programme Title :	Master of Computer Applications	
Course Code:	20PMC315	Title	Batch :	2020
		Open Source Technologies	Semester	III
Hrs/Week:	4		Credits:	4

Course Outcomes (CO)

K1	CO1	Understand the difference between open source software and commercial software.
K2	CO2	Identify, install and run Linux operating system.
K3	CO3	Install and manage applications.
K4	CO4	To perform Shell Programming.
K5	CO5	Case Studies

Programme code:	MCA	Programme Title :	MCA	
Course Code:	20PMC316	Title	Batch :	2020
		Data Visualization Techniques – Elective III	Semester	III
Hrs/Week:	4		Credits:	4

Course Objective

- To develop skills to both design and critique visualization
- To understand why visualization is an important part of data analysis
- To understand the components involved in visualization design
- To understand the type of data impacts the type of visualization

		Course Outcomes (CO)
K1	CO1	Describe the concept of data preparation and categories the data
K2	CO2	Illustrate the map and scatter plot
K3	CO3	Analyse the data using various charts and review the chart based on the problem
K4	CO4	Evaluate and compare the solutions by best practices

K5	CO5	Case studies
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Programme code:	MCA	Programme Title :	MCA	
Course Code:	20PMC317	Title	Batch :	2020
		Data Analytics	Semester	III
Hrs/Week:	4		Credits:	4

Course Outcomes (CO)

K1	CO1	To remember and recollect the concept of Data base
K2	CO2	To get the idea of data mining and big data
K3	CO3	To apply the concept in the real world problems
K4	CO4	To analyze the results with practical problems
K5	CO5	Implementation using R

Programme code:	MCA	Programme Title :	MCA	
Course Code:	20PMC318	Title	Batch :	2020
		Cloud Computing	Semester	III
Hrs/Week:	4		Credits:	4

Course Outcomes (CO)

K1	CO1	To remember the powerful features of android
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K2	CO2	To get the idea of Designing and developing User Interfaces for the Android platform.
K3	CO3	To implement and configure Android app development tools
K4	CO4	To analyze user interfaces for the android platform
K5	CO5	Apply suitable virtualization concept

Programme code:	MCA	Programme Title :	Master of Computer Applications	
Course Code:	20PMC319	Title	Batch :	2020
		Lab –V Programming in	Semester	III
Hrs/Week:	4	Open Source Technologies	Credits:	2

Course Outcomes (CO)

K1	CO1	To understand core principles Linux technology.
K2	CO2	To understand Linux library functions , communication facility and system calls
K3	CO3	To deploy shell programming in Linux systems
K4	CO4	To analyze various administrative task in Linux environment

Programme code:	MCA	Programme Title :	MCA	
Course Code:	20PMC320	Title	Batch :	2020
		Lab VI Programming in R Tool	Semester	III
Hrs/Week:	4		Credits:	2

Course Outcomes (CO)(for Practicals Only)

K3	CO1	To understand the concept of Data Mining and Big Data
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K4	CO2	To get the practical knowledge of Data Mining
K5	CO3	Enable the students to write the Data Mining Programs using R

Programme code:	MCA	Programme Title :	Master of Computer Applications	
Course Code:	20PMC321	Title	Batch :	2020
		Mini project	Semester	III
Hrs/Week:			Credits:	2
External : 30 Marks		Internal 20 Marks	Total : 50 Marks	

Programme code:	MCA	Programme Title :	Master of Computer Applications	
Course Code:	20PMC422	Title	Batch :	2020
		Internet of Things	Semester	IV
Hrs/Week:	4		Credits:	4

Programme code:	MCA	Programme Title :	Master of Computer Applications	
Course Code:	20PMC423	Title	Batch :	2020
		Artificial Intelligence and Machine Learning	Semester	IV
Hrs/Week:	4		Credits:	4

Course Outcomes (CO)

K1	CO1	Understanding the AI Problems
K2	CO2	Get the knowledge of Heuristics Technique
K3	CO3	Representing Simple facts and learning.
K4	CO4	Learning the concepts of AI and Machine Learning
K5	CO5	Case studies on machine learning