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MASTER OF COMPUTER APPLICATIONS (MCA)

PROGRAMME OUTCOMES (PO)

At the completion of the Post graduate programme, the student will be able to accomplish the following outcomes

PO 1 Communicate Effectively: Inculcate effective communication skills combined with professional & ethical attitude with the computing community and also the society by comprehending and writing effective reports and documentation, making effective presentations and providing and receiving clear instructions. Individual & Team Work: Function effectively in diverse teams as team leader and team member on multidisciplinary projects to demonstrate computing and management skills. Problem Analysis: Identify, critically analyze and formulate complex problems in multidisciplinary domains reaching substantiated conclusions using first principles of Mathematics, Sciences and Engineering. Computational Knowledge: Relate & apply fundamental knowledge of computing technology and relevant domains for the conceptualization of models from defined problems appropriate to the discipline. Design and Development of Solution: Design, implement and evaluate complex business scenarios and contemporary issues into desired needs based solutions with a passion for quality, competency and holistic approach. Solving Complex Computing Problems: Use problem solving skills including design of experiments, analysis and interpretation of information and synthesis of the knowledge to unravel multifaceted industrial problems. Modern Tool Usage: Create, select and apply appropriate skills, techniques,	PO No	Graduate Programme Outcomes
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PO 6 Solving Complex Computing Problems: Use problem solving skills including design of experiments, analysis and interpretation of information and synthesis of the knowledge to unravel multifaceted industrial problems. Modern Tool Usage:	103	contemporary issues into desired needs based solutions with a passion for
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interpretation of information and synthesis of the knowledge to unravel multifaceted industrial problems. Modern Tool Usage:		Solving Complex Computing Problems:
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PO 7 Modern Tool Usage:	100	interpretation of information and synthesis of the knowledge to unravel
PO 7		multifaceted industrial problems.
Create, select and apply appropriate skills, techniques,	PO 7	Modern Tool Usage:
	PO 7	Create, select and apply appropriate skills, techniques,



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	resources and modern engineering tools to solve social, cultural and	
	industrial issues with global standards.	
	Research and Lifelong Learning:	
	Engage in continuous learning as an expert by applying research based	
PO 8	knowledge and methodologies to design, analyze and interpret data for	
	finding the solutions for complex problems by applying modern	
	technological tools.	
	Project Management and Finance:	
DO 0	Demonstrate knowledge and understanding of the engineering and	
PO 9	management principles with computing skills to manage and estimate	
	projects in multidisciplinary environments.	
	Entrepreneurship:	
PO 10	Find out the right opportunity for the utilization of innovative ideas and	
PO 10	entrepreneurship to make value and wealth for the betterment of the	
	individual and the society at large.	
	Social, Cultural, Environmental, Legal and Ethical Concern(s):	
	Recognize environmental, social, cultural, legal, ethical and cyber issues	
PO 11	involved in the use of technology and other consequential responsibilities	
POII	relevant to professional practice with an understanding of green	
	environment	
	initiative.	

PROGRAMME SPECIFIC OUTCOMES (PSO)

PSO No	Intended Programme Specific Outcomes.
PSO 1	Solidify foundation of mathematics, computer science and problem solving methodologies for effective implementation in real life applications
PSO 2	Familiarize students about principles of Software Engineering and Project Management with appropriate data modeling concepts and latest technologies.
PSO 3	Use of recent technologies, skills and knowledge for the design and development of applications in the computing discipline.



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Inculcate employability and entrepreneurship skills among studer	
PSO 4	contribute innovative and advanced solutions for the important life
	problems.
PSO 5	Understand the concepts of network and communication technologies,
	social network and other related aspects.

Name of the Course	Course Outcomes
	CO1 Explain the underlying concepts and tools in Discrete
	Mathematics with emphasis on their applications to Computer
Mathematical &	Science.
Statistical foundation	CO2 Familiarize the students with the scope and applications of
for Computer	Statistical theory in Computer Applications.
Applications	CO3 Impart insights about the concepts of Probability, Tests of
••	significance, and Tests of the hypothesis as the basis of Inferential
	Statistics.
	CO1 To introduce the concepts of binary arithmetic,
	complements of binary number system and computer codes
	CO2 To understand the basics of Boolean algebra and
Digital Logic &	familiarize the design and operations of digital circuits
Computer	CO3 To impart knowledge in basics of computer organisation
Organization	CO4 To familiarize the concepts of memory and input-output
6	organization
	CO5 To introduce the concepts of advanced computer
	architecture
	CO1 Enhance the logical and problem solving skills of the
Structured	students by focusing on the features of C programming language.
programming in C	CO2 Build interest and confidence among them to design
L. og. mining in	programs for real world problems.
Software Engineering	CO1 To Familiarize students with the need and importance of
and Object Oriented	software engineering.
Modeling	software engineering.
Modeling	



	CO2 To impart basic insights to students about various
	activities in different phases of software engineering To provide
	knowledge in modeling tools.
	CO1 Introduces the basic concepts of a database system and
	query language.
	CO2 Emphasizes the understanding of the fundamentals of
Database Technology	relational database systems including data models, database
and NoSql	architectures, database manipulations and normalization.
	CO3 Provides an understanding of new developments and
	trends such as distributed database, replication, fragmentation and
	NoSQL.
	CO1 Provide an introduction to MySQL and MongoDB, with an
	emphasis on how to organize, maintain and retrieve - efficiently,
	and effectively - information from a DBMS.
Database Technology	CO2 Introduces queries to insert data, update, delete and fetch
Lab (Mysql &	the data from the tables.
Mongodb)	CO3 Describe merging of tables using aggregate functions,
	nested queries, clauses to filter and sort the data, has been covered
	in detail.
	CO1 Enable students to identify their strengths and weaknesses.
	CO2 Measure each student's numerical ability, problem solving
Employability Skill	and mathematical skills.
Training-Phase 1	CO3 Enhance aptitude and reasoning ability of students that
11 aming-1 nase 1	will make them capable of securing a job with any recruiter.
	CO4 Guide students in Resume making.



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Course	Course Outcomes
Optimization Techniques for Computer Applications	CO1 To Familiarize participants with the scope and applications of Operations Research CO2 To impart basic insights to students about use of various Scientific Tools and Models in Operations Research CO3 To provide basic insights into different applications in Operations Research
Data structures and Algorithm Analysis	CO1 To impart the basic concepts of data structures, algorithms and the analysis phase of algorithms. CO2 To Understand basic concepts, implementation and applications of stacks, queues, lists, trees and graphs CO3 To understand concepts about searching and sorting techniques. CO4 To be familiarized with various algorithm design strategies. CO5 To choose the appropriate data structure and algorithm design method for a specified application.
Computer Networking with TCP/IP	CO1 To understand the functionality of a reference model for data communication. CO2 To understand the various protocols of different layers. CO3 Allow the student to gain expertise in some specific areas of networking such as the design and maintenance of individual networks. CO4 Introduce the student to advanced networking concepts, preparing the student for entry to Advanced courses in computer networking CO5 To understand the basic concept of socket programming and client server model.
Data Science & Big Data Analysis	CO1 To familiarize participants with the scope and applications of Big Data.



	CO2 To impart basic insights to students about use of various
	Scientific Models in Data Science.
	CO3 To provide basic insights into Big Data analysis through
	Data Mining.
	CO1 Familiarize students with the scope and applications
	of object oriented concepts and techniques.
	C02 Create Java application programs using exceptions,
Object oriented Lab(Java	threads and interfaces.
Lab)	CO3 Learn the database connectivity through API
Laby	programming.
	CO4 Develop GUI applications to analyze the real world
	problems.
	CO1 To understand the general concepts of PHP scripting
	language for the development of Internet Websites.
	CO2 To understand the basic functions of MySQL database
	program.
Software development	CO3 To learn the relationship between the client side and the
lab-II (PHP)	sewer side scripts.
11 (1 111)	CO4 To develop a basic understanding about software
	development framework.
	CO5 To understand the concepts of semantic web and web
	hosting.
	CO1 Develop skills to design simple linear and nonlinear
	data structures
Data structures Lab	CO2 Be capable to identity the appropriate data structure for
using C	a given problem
	CO3 Have practical knowledge on the applications of data
	structure



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Course	Course Outcomes
	CO1 To introduce students to the basic concepts and
	techniques of Machine Learning.
Machine Learning	CO2 To develop skills of using recent machine learning
Techniques	software for solving practical problems.
	CO3 To gain experience of doing independent study and
	research.
	CO1 To provide an understanding of computer forensics
	fundamentals.
Cyber Forensics	CO2 To analyze various computer forensics technologies.
	CO3 Enable students to understand, explore and acquire a
	critical understanding in Cyber crimes and Cyber Law.
	CO1 Get insights into the basic knowledge of Artificial
	Intelligence, AI application along with its importance.
	CO2 Be familiar with problem representation in symbolic
	notation.
Artificial Intelligence	CO3 Able to understand the algorithmic approach in
	machine learning and automation.
	CO4 Analyze the matching techniques for organizing and
	manipulating knowledge. Predict pattern based on Reasoning.
	CO5 Acquire basic knowledge in various fields of AI.
	CO1 To build an understanding of the fundamental concepts
	of ERP systems and their architecture.
	CO2 To familiarize the working of different modules,
Enterprise Resource	technologies and implementation and post implementation
Planning	activities in ERP.
	CO3 To understand the present trends and future
	developments in the field of Enterprise resource planning.



	CO1 To introduce the use of the components of a graphics
	system and become familiar with building the approach of
	graphics system components and algorithms related with
	them.
	CO2 To learn the basic principles of 3-dimensional
	computer graphics.
Computer Graphics and	CO3 Provide an understanding of how to scan convert the
Multimedia	basic geometrical primitives
	CO4 Provide an understanding of mapping from a world
	coordinates to device coordinates, clipping, and projections
	CO5 To be able to discuss the application of computer
	graphics and Multimedia
	CO6 To comprehend and analyze the fundamentals of
	animation, virtual reality, underlying technologies, principles.
	CO1 To familiarize students with an overview of the basic
	concepts of Digital Image Processing
	CO2 To understand the processes of improving the quality of
	an image
Digital Image Processing	
	CO3 To familiarize the students about the concept of slicing
	a digital image
	CO4 To expose the students towards real-world applications
	of image processing
	CO1 To Understand the fundamental concepts of cloud
	computing
	CO2 To impart basic insights cloud computing architecture
	and virtualization in the cloud.
Cloud Computing	CO3 To understand data storage and different cloud
	computing services
	CO4 To Understand cloud security and tools and technologies
	used for cloud computing



CO5 To provide basic insights into various cloud platforms used in industry, cloud computing applications future directions and trends. CO1 Provide an understanding of data security using various cryptographic algorithms. CO2 Enable students to identify the underlying network data security. CO3 Identify the implementation of cryptographic methods to provide email and web security. CO1 To understand the concepts of managerial functions and practices and to introduce organization structure CO2 To Familiarize participants with the different kinds of Information Systems in Business CO3 To make the participants familiarize with the
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CO3 To make the participants familiarize with the
Business Management CO3 To make the participants familiarize with the
Business Management
Information Technologies and Methods used for effective
And Information System Decision making in an organization
CO4 To provide basic insights into the concepts of global
business systems.
CO5 To familiarize the software project management
environment.
CO1 To understand the concepts of Internet of Things and be
able to build IoT applications.
CO2 To understand various building blocks and working of
Internet of Things (IoT) state-of-the-art IoT systems.
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CO3 To get insights to conceive and build IoT systems on
their own.
CO1 To provide knowledge of different data types, basic data
structures and other programming constructs of Python
Python Programming for programming language.
Data Science CO2 To provide the student with an adequate understanding
of python programming concepts and principles to enable
them to design efficient programs.



	CO3 To impart knowledge to develop web-based applications	
	using the Django framework.	
	CO4 To equip the students to prepare, analyze and visualize	
	the data from the large quantity of data given and also to	
	implement the machine learning algorithms	
	CO1 To introduce the student to the Linux Operating system	
	with particular emphasis on command line tools and utilities	
A decree 0	CO2 To learn and apply the various commands and utilities	
Advance Operating	related to file system management, process • management,	
System Lab using Linux	program development and data processing.	
	CO2 To apply the above-mentioned utilities and concepts in	
	the writing of shell scripts	
	CO1 To demonstrate a wide range of skills and knowledge	
	learned	
	CO2 To encourage the integration of knowledge gained in the	
	previous course units.	
	CO3 To demonstrate the application of students	
Mini Project	programming and research skills	
	CO4 To apply the knowledge to complex computing	
	problems	
	CO5 To make the student able to specialize in specific areas	
	of computer science	
	CO1 Develop ways to extend and improve interpersonal	
	skills, negotiating skills, leadership skills, creativity and	
	conflict management skills.	
Employability Skill	CO2 Enable students to appreciate the role of body language	
Training-Phase 2	and voice tone in effective communication.	
	CO3 Evaluate students thinking skills and how he/she	
	controls the conversation through listening attentively and	
	then having the perseverance to mould it towards his/her own	
	direction.	



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Course	Course Outcomes
Seminar	CO1 To make students aware of the Current / Future trends
	related to Information Technology/Computer Science
	Computer Application.
	CO2 To improve the presentation skills of the students.
	CO3 To develop the ability to seek clarification and defend
	the ideas of other research works effectively.
	CO4 To acquire skills to raise queries and to answer the
	queries in an effective manner.
Main Project	CO1 To demonstrate a wide range of skills and knowledge
	acquired during the course.
	CO2 To encourage the integration of knowledge gained in the
	previous course units.
	CO3 To demonstrate & implement students programming
	and research skills.
	CO4 To apply the knowledge to solve complex computing
	problems.
	CO5 To make the students capable of specialising in specific
	areas of Computer Science.
Course Viva	CO1 To ensure the subject knowledge acquired by the
	students.



CO2 To verify the depth of knowledge gained through online
courses.
CO3 To assess the overall knowledge gained during the
course of study.