

**BUNTS SANGHA'S**  
**S.M.SHETTY COLLEGE OF SCIENCE, COMMERCE & MANAGEMENT STUDIES POWAI**

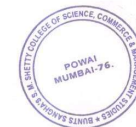
**Master of Science- Information Technology**


Semester	Subject	Subject	Course Outcomes
<b>Semester 1</b>	<b>Research in Computing</b>	CO1	To understand business research with an understanding of all the latest theories.
		CO2	To remember research techniques used for solving any real world or innovate problem.
		CO3	To apply analytical skills by using scientific methods to solve reserach problems.
		CO4	To analyze , recognize the language, theory and models of the field of business analytics
		CO5	To evalauate viable solutions to decision making problems
	<b>Data Science</b>	CO1	To Understand quantitative modeling and data analysis techniques to the solution of real world business problems
		CO2	To Classify problem analysis and decision-making.
		CO3	Develop in depth understanding of the key technologies in data science and business analytics: data mining, machine learning, visualization techniques, predictive modeling, and statistics.
		CO4	Evalaute statistics programming languages and big data tools through coursework and applied research experiences.
		CO5	Build algorithms for machine intelligence.
	<b>Cloud Computing</b>	CO1	To define Cloud Computing and memorize the different Cloud service and deployment models
		CO2	To list the importance of virtualization along with their technologies.
		CO3	To analyse different cloud computing services
		CO4	To analyze the components of open stack & Google Cloud platform and understand Mobile Cloud Computing
		CO5	To discuss the key components of Amazon web Service
	<b>Soft Computing Techniques</b>	CO1	To understand the Soft computing concepts like fuzzy logic, neural networks and genetic algorithm
		CO2	To find the optimistic decisions by neural networks
		CO3	To monitor the decision making in a dynamic system.
		CO4	To recognize the designing of intelligent systems in Artificial Intelligence
		CO5	To explain the Reasoning and Hybird Computing Techniques
		CO1	To define big data an overview of an exciting growing field of big data analytics.

Semester 2	Big Data Analytics	CO2	To illustrate the tools required to manage and understand big data like Hadoop, NoSql MapReduce.
		CO3	To apply fundamental techniques and principles in achieving big data analytics with scalability and streaming capability.
		CO4	To analyse and examine skills that will help them to solve complex real world problems in decision support.
		CO5	To create programs on R on classification ,clustering and build application using Big data concept.
	Modern Networking	CO1	To understand the state-of-the-art in network protocols, architectures and applications.
		CO2	To compare existing network protocols and networks.
		CO3	To explain new protocols in networking.
		CO4	To evaluate how networking research is done.
		CO5	To discuss novel ideas in the area of Networking via term-long research projects.
	Micro services Architecture	CO1	To understand the philosophy and architecture of Web applications using ASP.NET Core MVC
		CO2	To apply practical understanding of .NET Core
		CO3	To classify working knowledge of Web application development using ASP.NET Core MVC 6 and Visual Studio
		CO4	To evaluate data with XML Serialization and ADO.NET with SQL Server
		CO5	To create HTTP services using ASP.NET Core Web API.
	Image Processing	CO1	To remember the fundamental concepts of a digital image processing system.
		CO2	To understand the techniques for image enhancement and image restoration.
		CO3	To identify different categories of various compression techniques.
		CO4	To analyze images in the frequency domain using various transforms.
		CO5	To interpret Image compression standards.
	Technical Writing and Entrepreneurship Development	CO1	To Develop technical documents that meet the requirements with standard guidelines. Understanding the essentials and hands-on learning about effective Website Development.
CO2		To analyse Better Quality Content Which Ranks faster at Search Engines. Build effective Social Media Pages	
CO3		To evaluate the essentials parameters of effective Social Media Pages.	
CO4		To understand importance of innovation and entrepreneurship.	
CO5		To summarize research and development projects.	
		CO1	To be able to understand the fundamentals concepts of expert system and its applications.

Semester 3	Applied Artificial Intelligence	CO2	To summarize use probability and concept of fuzzy sets for solving AI based problems.
		CO3	To be able to illustrate the applications of Machine Learning. The learner can also apply fuzzy system for solving problems.
		CO4	Learner will be able to inference applications of genetic algorithms in different problems related to artificial intelligence.
		CO5	To compose knowledge representation techniques in natural language processing.
		CO1	To understand the concepts of VMM, SDN, NAS , HyperV etc.
	Cloud Management	CO2	To compare an automation with runbooks and demonstrate the use of Windows Orchestrator
		CO3	To build SCCM and Demonstrate the use of Configuration Manager
		CO4	To analyze the use of Service manager with various deployments that can be performed using it.
		CO5	To design the use of Data Protection Manager
		CO1	To understand basic security issues in cloud, IoT etc.
	Offensive Security	CO2	To classify different security techniques and policies
		CO3	To illustrate Use Vulnerability assessment and exploitation tool
		CO4	To analyze the network perform reconnaissance and enumerate the target to detect vulnerabilities
		CO5	To explain offensive tests using Metasploit on various application, generating payloads etc.
		Blockchain	CO1
CO2	To cover the technological underpinnings of blockchain operations as distributed data structures and decision-making systems, their functionality and different architecture types.		
CO3	To provide a critical evaluation of existing “smart contract” capabilities and platforms, and examine their future directions, opportunities, risks and challenges		
CO4	To illustrate what constitutes a “smart” contract, what are its legal implications and what it can and cannot do, now and in the near future		
CO5	To develop blockchain DApps.		
CO1	To understand the know-hows, issues and challenge in Natural Language Processing and NLP applications and their relevance in the classical and modern context.		

Semester 4	<b>Natural Language Processing</b>	CO2	To identify Computational techniques and approaches for solving NLP problems and develop modules for NLP tasks and tools such as Morph Analyzer, POS tagger, Chunker, Parser, WSD tool etc.
		CO3	To select various grammar formalisms, which they can apply in different fields of study.
		CO4	To discover project work or work in R&D firms working in NLP and its allied areas.
		CO5	To choose applications in different sectors
		CO1	To understand VMWare VSphere 67, Install ESXi and Configure VSphere Centre
	<b>Server Virtualization on VMWare Platform</b>	CO2	To classify VSphere Security, Create and configure storage devices and Perform configurations to ensure business continuity
		CO3	To make use of Resource allocation, Creating and managing virtual machine and the use of templates
		CO4	To analyze automation of vSphere and manage resource allocation
		CO5	To elaborate the use of VSphere Update Manager and Create a VSphere Network
		CO1	To Understand various information security policies and process flow, Ethics of an Information security Auditor.
	<b>Information Security Auditing</b>	CO2	To classify various information systems in an organization, their criticality and various governance and management policies associated with them.
		CO3	To analyse various operational strategies like asset management, data governance etc. and suggest requisite changes as per organizations requirements with improvements.
		CO4	To explain the information flow across the organization and identify the weak spots, and also suggest improvements to strengthen them.
		CO5	To identify strong strategies to protect information assets and come up with an efficient business continuity plan, disaster recovery strategy etc.



  
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