S.Y.B.Sc.(Computer Science) SEM III

Sr.No	Learning Objective	Learning Outcomes
	Course: USCS301:Th	neory of Computation
1	To provide the comprehensive insight into theory of computation by understanding grammar, languages and other elements of modern language design.	Understand Grammar and Languages
2	To develop capabilities to design and develop formulations for computing models and identify its applications in diverse areas.	Learn about Automata theory and its application in Language Design
3		Learn about Turing Machines and Pushdown Automata
4		Understand Linear Bound Automata and its applications
	Course: USCS	302:Core Java
1	The objective of this course is to teach the learner how to use Object Oriented paradigm to develop code and understand the concepts of Core Java and to cover-up with the pre- requisites of Core java	Object oriented programming concepts using Java.
2		Knowledge of input, its processing and getting suitable output.
3		Understand, design, implement and evaluate classes and applets.
4		Knowledge and implementation of AWT package.
	Course: USCS503	Operating System
1	Learners must understand proper working of operating system	To provide a understanding of operating system, its structures and functioning
2	Computer operating system, its structures, functioning and algorithms.	Develop and master understanding of algorithms used by operating systems for various purposes.
		ase Management Systems
1	To develop understanding of concepts and techniques for data management and learn about widely used systems for implementation and usage.	Learn about using PL/SQL for data management
2		Master concepts of stored procedure and triggers and its use.

3		Understand concepts and implementations of			
	G HIGGS207 G L:	transaction management and crash recovery			
1		natorics and Graph Theory			
1	To give the learner a broad exposure	Appreciate beauty of combinatorics and how			
	of combinatorial Mathematics through applications especially the Computer	combinatorial problems naturally arise in many settings.			
	Science applications.	settings.			
2	seience applications.	Understand the combinatorial features in real			
		world situations and Computer Science			
		applications.			
3		Apply combinatorial and graph theoretical			
		concepts to understand Computer Science			
	G VIGGGGG (D) A A G	concepts and apply them to solve problems			
4		nputing and IoT Programming			
1	To learn about SoC architectures;	Enable learners to understand System On Chip			
	Learn how Raspberry Pi. Learn to	Architectures.			
	program Raspberry Pi. Implementation of internet of Things				
	and Protocols.				
2	`	Introduction and preparing Raspberry Pi with			
		hardware and installation.			
3		Learn physical interfaces and electronics of			
		Raspberry Pi and program them using			
		practical's Learn how to make consumer grade			
		IoT safe and secure with proper use of			
		protocols.			
	Course: USCS307:Web Programming				
	To provide insight into emerging	To design valid, well-formed, scalable, and			
1	technologies to design and develop	meaningful pages using emerging			
	state of - the art web applications	technologies. Understand the various			
	using client-side scripting, server-side				
	scripting, and database connectivity	viewports, and browsers that render websites			
2		To develop and implement client-side and			
		server-side scripting language programs.			
3		To develop and implement Database Driven			
1		Websites.			
4		Design and apply XML to create a markup language for data and document centric			
		applications.			
		applications.			

Sr.No	Learning Objective	Learning Outcomes
	0	entals of Algorithms
1	To understand basic principles of	
	algorithm design and why algorithm	designing good program
	analysis is important	
2	To understand how to implement	Implement algorithms using Python
	algorithms in Python	
3	To understand how to transform new	
	problems into algorithmic problems	
	with efficient solutions	
4	To understand algorithm design	
	techniques for solving different	
	problems	
	USCS402 Ad	vanced JAVA
1	Explore advanced topic of Java	Understand the concepts related to Java
	programming for solving problems.	Technology
2	To Developed platform independent	Explore and understand use of Java Server
	application	Programming
		puter Networks
1	In this era of Information, its	Learner will be able to understand the concepts
	computation and its exchange	of networking, which are important for them to
	techniques, Learner should be able to	be known as a 'networking professionals'.
	conceptualize and understand the	
	framework and working of	
	communication networks.	
2	on completion, will be able to have a	Useful to proceed with industrial requirements
	firm grip over this very important	and International vendor certifications
	segment of Internet.	
		are Engineering
1	The program's goal is to provide a	An ability to identify, formulate, and solve
	professionally guided education in	complex engineering problems by applying
	software engineering that prepares	principles of engineering, science, and
	graduates to transition into a broad	mathematics
	range of career options: industry,	
	government, computing graduate	
2	program, and professional education.	An ability to communicate offertively with
<i>_</i>	An ability to function effectively on a	An ability to communicate effectively with a
	team whose members together	range of audiences
	provide leadership, create a collaborative and inclusive	
	environment, establish goals, plan	
3	tasks, and meet objectives	An ability to function effectively on a team
3	It seeks to complement this with a	An ability to function effectively on a team

detailed knowledge of techniques for the analysis and design of complex software intensive systems. It aims to set these techniques in an appropriate engineering and management context. USCS405 Linear Algebra using Python 1 To offer the learner the relevant linear algebra concepts through computer science applications. 2 Understand the concepts through program implementation 3 Instill a computational thinking while learning linear algebra
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USCS406 .NET Technologies
To explore .NET technologies for Understand the .NET framework . Develop a
designing and developing dynamic, proficiency in the C# programming language
interactive and responsive web
applications.
Proficiently develop ASP.NET well
applications using C# .Use ADO.NET for data
persistence in a web application
USCS407 Skill Enhancement: Android Developer Fundamentals
1 To provide the comprehensive insight Understand the requirements of Mobile
into developing applications running programming environment. Learn about basic
on smart mobile devices and methods, tools and techniques for developing
demonstrate programming skills for Apps
managing task on mobile
2 To provide systematic approach for Explore and practice App development of
studying definition, methods and its Android Platform, Develop working prototype
applications for Mobile-App of working systems for various uses in daily
development. lives