

T.Y. B. Sc. IT (SEM V)

S.N.	Learning Objectives	Learning Outcomes
Software Project Management		
1.	To enable students to produce specific sections of the plan used to manage the software development and maintenance efforts.	Students will be able to understand various software project management techniques which enable them to start project planning phase for software development.
2.	To make students evaluate software project management practices within an organization and recommend practical improvements	Students will be able to distinguish among SCM and SQA and classify different testing strategies and tactics and compare them.
Internet of Things		
1.	Students will be taught to assess the vision and introduction of IoT	Students will be able to learn different applications in IOT.
2.	Students will be taught to Understand IoT Market perspective.	Students will be able to analyze the data in IOT
3.	Students will be taught the Data and Knowledge Management and use of Devices in IoT Technology.	Students will be able to understand and implement Data and Knowledge Management and use of Devices in IoT Technology
Advanced Web Programming		
1	To help students to develop working knowledge of C# programming constructs and the .NET Framework.	Students will be able to Acquire an ability to design, configure and deploy web applications using various controls
2	To help students to build a web application using different server controls.	Students will be able to access and display dynamic data from data sources using ADO.NET model and data binding in web application
3	To help students to learn the use ADO.NET in a web application to read, insert, and update data in a database	Students will be able to use ADO.NET in a web application to read, insert, and update data in a database

Artificial Intelligence		
1.	To introduce basic concepts and applications of machine learning.	Students will be able to Understand state space and its searching strategies.
2.	Help students to learn the application of machine learning /A.I algorithms in the different fields of science, medicine, finance etc.	Students will be able to Understand machine learning concepts and range of problems that can be handled by machine learning.
Enterprise Java		
1.	To provide knowledge about basic Java language syntax and semantics to write Java programs.	Student will be able to understand how to design, implement, test, debug, and document programs using basic Java language syntax and semantics.
2.	To assist students to understand the fundamentals of object-oriented programming in Java to design GUI applications	Student will be able to implement object oriented programming concepts effectively
Project Dissertation		
1.	To enable students to develop deeper knowledge, understanding, capabilities and attitudes in the context of the programme of study.	Students will be able to develop different types of allocations on different platforms in different areas.
2.	To make students learn to create documentation using word processing software.	Students will be able to create documentation using word processing software.
3.	To make students learn to create different UML diagrams by using Start UML and Online software.	Students will be able to Understandand create different UML diagrams by using Start UML and Online software.
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Software Quality Assurance		
1.	To make students understand quality management processes distinguish between the various activities of quality assurance, quality planning and quality control.	Students will be able to investigate the reason for bugs and analyze the principles in software testing to prevent and remove bugs.

2.	To make students understand the importance of standards in the quality management process and their impact on the final product.	Students will be able implement various test processes for quality improvement, Design test planning and manage the test process.
Security in Computing		
1.	To make students understand and learn the basic concepts related to security in field of computers and networking	Students will be able identify information security goals, classical encryption and decryption techniques and acquire fundamental knowledge related to confidentiality, authentication and integrity of data.
2.	To enable students to analyze packets in a network to detect various security related attacks.	Students will be able apply network security basics, analyze different attacks on networks and evaluate the performance of firewalls and various security protocols.
Business Intelligence		
1.	Students will be taught to identify the major frameworks decision support systems (DSS) and business intelligence (BI).	Students will be able identify the major frameworks decision support systems (DSS) and business intelligence (BI).
2.	Students will be taught to learn the foundations, definitions, architecture and capabilities of DSS and BI.	Students will be able to understand the foundations, definitions, architecture and capabilities of DSS and BI.
Principles of Geographic Information Systems		
1.	Students will be taught knowledge and skills as well as the expertise and independence necessary for management of projects in Geographic Information Systems.	Students will be able to understand basic principles of GIS, techniques and real world applications.
2.	To enable students to acquire transferable and employable skills in GIS and remote sensing.	Students will be able to gain knowledge of basic concepts of geography that are used efficiently and accurately in GIS technology.
Cyber Law		
	It provides In Depth Knowledge Of Information	Analyze and evaluate the cyber security needs of an organization.

	Technology Act And Legal Frame Work Of Right To Privacy, Data Security And Data Protection.	
	It helps students to Understand principles of web security and to guarantee a secure network by monitoring and analyzing the nature of attacks through cyber/computer forensics software/tools	Determine and analyze software vulnerabilities and security solutions to reduce the risk of exploitation.
Project Implementation		
1.	Students will be taught to manage the scope, cost, timing, and quality of the project at all times focused on project success as defined by project stakeholders.	Students will be able to implement project code using frontend and backend.
2.	Students will be taught various test processes for improving quality, design.	Students will be able to implement various test processes for quality improvement, Design test planning and manage the test process.
3.	Students will be taught to prepare PERT chart using WBS software.	Students will be able to create project scheduling using Gantt chart and PERT chart.
4.	Students will be taught to execute test cases to find the errors in code and in an application or website.	Students will be able to execute project by writing test cases and generate test reports by inputting values.

