	CSH 306: Software Engineering	
	reaching Scheme	Examination Scheme
	Lectures: 4 hrs/Week	Class Test -20 Marks
	Tutorials: 2 hr/Week	Teachers Assessment – 10 Marks
	Constitution	Attendance – 20 Marks
	Credits: 6	End Semester Exam – 100 marks
	Prerequisite: -	
	Computer Fundamental and Progr	ramming using C.
•	Course Objectives:	
	1. To recognize basic software	design principles, software engineering methods and practice
	software cost estimation, testing	ng approaches and their appropriate application.
	respect to the children in the	ICISIADOIDO OF COHTIVORO
	requirements, implementation	issues, verification and validation.
	3. 10 implement techniques els	ii iii ii
	recommedes, ski	lle and modern - C
	and to apply the basic project	ills, and modern software engineering tools for designing a server
	and to apply the basic project.  4. To demonstrate development	ills, and modern software engineering tools for designing a server
	and to apply the basic project  4. To demonstrate development validation, implementation, an	ills, and modern software engineering tools for designing a server
	<ul> <li>and to apply the basic project</li> <li>4. To demonstrate development validation, implementation, and</li> <li>5. To evaluate software design p</li> </ul>	ills, and modern software engineering tools for designing a server
	<ul> <li>4. To demonstrate development validation, implementation, and</li> <li>5. To evaluate software design project with respect to effort a</li> </ul>	ills, and modern software engineering tools for designing a server
	<ul> <li>4. To demonstrate development validation, implementation, and</li> <li>5. To evaluate software design project with respect to effort a</li> </ul>	and modern software engineering tools for designing a systemanagement practices in real life projects.  of a computing-based system in terms of design, verification of maintenance within realistic constraints.  Trinciples, software requirements with existing tools and to test to development time.
	<ul> <li>4. To demonstrate development validation, implementation, and</li> <li>5. To evaluate software design project with respect to effort a</li> </ul>	and modern software engineering tools for designing a systemanagement practices in real life projects.  of a computing-based system in terms of design, verification of maintenance within realistic constraints.  Trinciples, software requirements with existing tools and to test to development time.
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etailed Syllabus	
UNIT-I (10 Hours) Introduction: Introduction to Software Engineering, Software Processes, And Software Development Life Cycle (SDLC) Model Science Development Models at	re Characteristics, Software Engineeri ) Models: Water Fall Model, Prototy and Iterative Enhancement Models.
Model, Spiral Model, Evolutionary Development Models, a	
UNIT-II (6 Hours) Software Requirement Specifications (SRS): Requirem Analysis, Documentation, Review and Management of Us Diagrams, Entity Relationship Diagrams, Decision Tables, St.	,
UNIT-III (10 Hours) Software Design: Basic Concept of Software Design, Ar Modularization, Design Structure Charts, Coupling and Design Strategies: Function Oriented Design, Object Orient	rchitectural Design, Low Level Design Cohesion, Top-Down and Bottom-I
UNIT-IV (10 Hours) Software Testing: Testing Objectives, Test Data Suit Prepa Acceptance Testing, Regression Testing, Top-Down and Black Box Testing, Alpha and Beta Testing of Produ Through, Code Inspection, Compliance with Design and Co	acts. Formal Technical Reviews, Wa
UNIT-V (10 Hours) Software Maintenance: Need for Maintenance, Preventive Cost of Maintenance, Maintenance Models.	e, Corrective and Perfective Maintenan
UNIT- VI (10 Hours)  Software Project Management: Estimation of Various For Schedule/Duration, Constructive Cost Model (COCOMO) Risk Analysis and Management, Software Quality Attribution Management, CASE Tools.	). Resource Allocation Models, Softwa
<ul> <li>Text and Reference Books</li> <li>1. Software Engineering: A Practitioners Approach, R. S. Pressn</li> <li>2. Fundamentals of Software Engineering, Rajib Mall, PHI Publ</li> <li>3. K. K. Aggarwal and Yogesh Singh, Software Engineering, Ne Edition.</li> <li>4. Software Engineering, Pankaj Jalote, Wiley, 5th Edition.</li> <li>5. Ian Sommerville, Software Engineering, Addison Wesley, 7th</li> </ul>	ew Age International Publishers, 3rd
Course Outcomes:	
<ol> <li>Understand that how to apply the software engineering lifecy planning, analysis, design, testing and implementation.</li> </ol>	
2. Identify the best software model to develop a real-life softwa	re product.
3. Demonstrate an ability to use the techniques and tools necess	
4. Work in one or more significant application domains.	
5.Demonstration understanding of and apply current theories,	Dan Academics models, and techniques that provide should be supplied to the state of the state o
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