

Course: BTech Semester: 5

Prerequisite: Basic knowledge of software applications | 203105101 - Fundamentals of Programming

**Course Objective:** This course provides a broad introduction to software engineering. The various process models required to develop software is also being described. Moreover the functional and non-functional requirements are also described.

# **Teaching and Examination Scheme**

Teaching Scheme					Examination Scheme					
Lecture	Tutorial	Lab		C., a dia	Internal Marks			External Marks		Total
Hrs/Week	Hrs/Week	Hrs/Week	Hrs/Week	Credit	Т	CE	Р	Т	Р	
0	0	2	0	1	-	-	20	-	30	50

SEE - Semester End Examination, T - Theory, P - Practical

#### **Course Outcome**

### After Learning the Course the students shall be able to:

- 1. Prepare and do Software Requirement Specification and Software Project Management Plan by ensuring the quality of software product, different quality standards and software review techniques.
- 2. Apply the concept of Functional Oriented and Object Oriented Approach for Software Design.
- 3. Understand modern Agile Development and Service Oriented Architecture Concept of Industry
- 4. Analyze, design, verify, validate, implement and maintain software systems.
- 5. Execute a Project Management Plan, tabulate Testing Plans and Reproduce effective procedures.

# List of Practical

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1.	Write a program to insert and retrieve the data from database using JDBC.						
2.	Write a program to demonstrate the use of Prepared Statement and Result Set interface.						
3.	request deta	ramming Servlet Execution on tomcat A servlet program to print hello world A servlet program to display ils A servlet program to handle user form A servlet program to create a cookie A servlet program to display vlet program to do session tracking Write a program to implement chat Server using Server Socket and Socket a Servlet program to send username and password using HTML forms and authenticate the user					
4.	demonstrate	ISP Programming JSP program to display hello world. JSP program to demonstrate arithmetic operations JSP program to demonstrate jsp: forward action tag JSP program to request implicit object Developing a web application to insert record into Oracle Database using JSP and JDBC					
5.	Create application to store the data in database to perform Hibernate CRUD operations.						
6.	Create a app	reate a application store the data in database to perform Spring CRUD operations.					
7.	Create a web application to store the data in database with spring boot.						

### Miscellaneous

### **Exam Requirement**

It consists of Assignments/Seminars/Presentations/Quizzes/Surprise Tests (Summative/MCQ) etc

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