

Course: BTech Semester: 5

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

Rationale: 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

| | e | | Examination Scheme | | | | | | | |
|----------|----------------------|-----------------|--------------------|--------|----------------|----|----|----------------|----|-------|
| Lecture | Tutorial Hrs/Week | Lab Hrs/Week | Hrs/Week | Credit | Internal Marks | | | External Marks | | Total |
| Hrs/Week | | | | | Т | CE | Р | Т | Р | |
| 0 | 0 | 2 | 0 | 1 | - | - | 20 | - | 30 | 50 |

SEE - Semester End Examination, CIA - Continuous Internal Assessment (It consists of Assignments/Seminars/Presentations/MCQ Tests, etc.)

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

- 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.
- Servlet Programming Servlet Execution on tomcat A servlet program to print hello world A servlet program to display request details A servlet program to handle user form A servlet program to create a cookie A servlet program to display cookie A servlet program to do session tracking Write a program to implement chat Server using Server Socket and Socket class. Write a Servlet program to send username and password using HTML forms and authenticate the user
- JSP 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 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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