

4.5 Detailed Syllabus of BCA 5th Semester

1. BCS-051: Introduction to Software Engineering 3 Credits

Objectives:

After studying the course, the student should:

- (a) Be able to develop SRS as per any of the existing standards
- (b) Know various Function and Object oriented modeling & design techniques
- (c) Know various testing techniques
- (d) Know different Software Development Life Cycle models
- (e) Know the concepts of Software Project Management

Block-1: Development of SRS

Unit-1: Characteristics of SRS

Completeness, Unambiguity, Inconsistency, IEEE SRS

Unit-2: Function oriented Modeling

DFD, ERD, Structure Chart, SRS, Data Dictionaries

Unit-3: Object Oriented Modeling

UML Introduction, Use Case Diagrams, Class Diagrams

Block-2: Design and Testing

Unit-1: Function Oriented Design

Constructing solution to problem, Identifying components and their interaction, Visualizing the solution, Characteristics of a good function oriented design (Coupling, Cohesion etc.)

Unit-2: Object Oriented Design

Identification & Specification problem domain static objects, Working out the application logic objects, Identification of necessary utility objects, Methodology of identification of objects, Case Study

Unit-3: Testing Techniques

Different testing techniques with examples

Unit-4: Development and Execution of test cases

Debugging, Testing tools & Environments, Types of test cases and test plans

Block-3: Software Engineering Concepts

Unit-1: Software Development Models

Program vs Software ,Definition of Software Engineering, SDLC models

Unit-2: Software Project Management Concepts

Planning, Execution, Monitoring, Control of Software Projects, Software Metrics, Application of PERT and GANTT charts

Unit-3: Software Engineering Fundamentals

Software Configuration Management, Software Maintenance, Software Quality Assurance

Software Engineering 2 Bcs

ML Morrison



Software Engineering 2 Bcs:

Software Engineering 2 Bcs Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has become more evident than ever. They have the ability to inspire, provoke, and ignite change. Such is the essence of the book **Software Engineering 2 Bcs**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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