

## 4.5 Detailed Syllabus of BCA 5<sup>th</sup> 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

**Arthur James Wells**



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