1.1. Getting started
1.2. Models
   1.2.1. Importance of modeling
   1.2.2. Principles of modeling
   1.2.3. Object-oriented modeling
1.3. Review of Object-Orientation
   1.3.1. Objects and classes
   1.3.2. Abstraction
   1.3.3. Inheritance
   1.3.4. Polymorphism
   1.3.5. Encapsulation
   1.3.6. Message passing
   1.3.7. Associations
   1.3.8. Aggregation
2. Introduction to UML
   2.1. History
   2.2. The components of the UML
   2.3. Building blocks of the UML: Things, Relationships, Diagrams
   2.4. Common mechanisms in the UML
   2.5. Architecture
3. Basic structural modeling
   3.1. Classes
   3.2. Relationships
   3.3. Class diagrams
4. Advanced structural modeling
   4.1. Interfaces, Types and Roles
   4.2. Packages
   4.3. Instances
   4.4. Object diagrams
5. Basic behavioral modeling
   5.1. Interactions
5.2. Use cases and use case diagrams
5.3. Interaction diagrams
5.4. Activity diagrams
6. Advanced behavioral modeling
   6.1. Events and Signals
   6.2. State machines
   6.3. Processes and Threads
   6.4. Time and Space
   6.5. Statechart diagrams
7. Architectural modeling
   7.1. Components and Component diagram
   7.2. Deployment diagram
   7.3. Collaborations
8. New diagrams in UML 2.0

Reference Books:
- Unified Modeling Language User Guide- Grady Booch, Games Rumbaugh, Ivar Jacobson
- UML 2 for dummies – Michael Jaeasse, Chonoles, James A., Schardt
- Learning UML 2.0 – Russmiles, Kim Hamilton

BCA 623 ASP.Net
1. Introduction to ASP.NET

   The .NET Framework, The .NET programming Framework, .NET languages, The .NET class library, ASP vs. ASP.NET, About ASP.NET, Basic difference between C# and VB.NET

2. ASP.NET 2.0

   Features of ASP.NET 2.0, Stages in Web Forms Processing, Introduction to Server Controls, HTML Controls, Validation Controls, User control, Data Binding Controls, Configuration, Personalization, Session State

3. Declaring Variables in ASP.NET

4. Web Server and User

Installing IIS. IIS Manager- Creating a virtual directory, Virtual directories and Applications, Folder Settings, Adding virtual directory to your neighborhood.

5. ASP. NET Applications

ASP.NET file types, the bin directory, code-behind, The Global.asax, Understanding ASP.NET classes. ASP.NET configuration

6. Overview of ADO.NET

ADO.NET architecture, Accessing Data using data adapters and datasets, using command and data reader, binding data to data bind controls, displaying data in data grid.

Reference Books:

1) The complete Reference ASP.NET by Matthew MacDonald- Tata McGraw-Hill.
2) Professional ASP.NET – Wrox Publication

BCA-628 E-Commerce

I Basic web commerce concepts, electronic commerce modes:

overview, EDI, electronic commerce with www-internet,commerce net advocacy.

II Approach to safe E-commerce:-

secure transport protocol and transaction, SEPP,SET, certificate for authentication, security

on web server and enterprise network.

III Electronic cash and Electronic payment scheme: Internet

monetary payment and security requirements; Payment & purchase order process, Online Electronic cash.

IV Internet/Intranet Security issues and solutions:

Needs for computer security, security strategies, Encryption.

MasterCard/visa secure Electronic Transaction: Introduction requirements and concepts, payment processing.
V Internet & web site Establishment:

Internet Resources for commerce: introduction, Web server Technologies, internet tools Relevant to commerce, internet applications for commerce.

VI Law related to IT ACT ,

Mobile and wireless computing fundamentals.

Reference Book :

Daniel Minoli & Emma Minoli : Web Commerce Technology Hand Book
Martyn Mallick : Mobile & wireless design essentials.

BCA-629 Organizational Behaviour

1. Organization & Organizational Behavior
   Introduction
   Organization
   Organizational Behaviour
   Intuition & Systematic Study
   Organization & Organizational Behavior
   Historical Evolution of Organizational Behavior
   Discipline Organizational Behavior
   Organizational Behavior to –Day
   Models for organizational Behaviour

2. Perception & Individual Decision Making
   Introduction
   Factors Influencing Perception
   Attribution Theory
   Frequently used Shortcuts in Judging others
   Specific Application in Organizations
   The Link between Perception & Individual Decision Making
   Improving Creativity in Decision Making
   How are Decisions actually made in Organizations?
   Individual Differences: Decision Making Styles
   Organizational Constraints
   Ethics in Decision Making

3. Personality & Attitude
   Introduction
Definition
Theories on Personality
The shaping of Personality
Assessment of Freud’s Stages
Immaturity to Maturity
Determinants of Personality
Personality Traits
The Myers – Briggs Framework
Major Traits Influencing Organizational Behavior
Personality & Organizational Behavior
Attitudes
Formation of Attitudes
Types of Attitudes
Functions of Attitudes
Changing Attitudes
Ways of Changing
Types of Change
Attitudes & OB
Job Satisfaction
Job Involvement
Organizational Commitment
Values
Job satisfaction

4. Learning

Nature of Learning
Process of Learning
Cognitive Theory of Learning
Social Learning Theory
Principles of Learning
Schedules of Learning
Learning Curves
Learning & Organizational Behavior

5. Motivation

Introduction
Intrinsic and extrinsic motivation
Some theories on motivation
Motivation and Performance
Motivation strategies
Importance of motivation
Motivational drives

6. Stress

Introduction
Model of stress
Stress manifestation
Coping strategies
Coping and personality
Sources of stress
Stress management
Organization approaches to stress management

BCA-626 Practical ASP.Net