

BCA 502 Web Technologies – II

Rationale : To understand the useful concepts of Web Technologies & implementation of practical skills for future use.

Learning Objectives:

At the end of this course student should able to

- Understand the web site development
- Create dynamic and interactive web page javascript based
- Apply programming concepts with web page and set of events.
- Understanding basic management foundations with business strategies.
- Different phases of E-commerce web site
- Creating E-commerce web site using ASP.NET
- Understanding & using ADO.NET
- Overview of content management s/w.
- Creating simple web site using 'Wordpress' an emerging trend of web site construction.

Prerequisite:

- Understanding of the principles of computer programming
- Basic understanding of ASP.NET tool box

Teaching and Evaluation Scheme: The objective of evaluation is not only to measure the performance of students, but also to motivate them for better performance. Students are evaluated on the basis of internal examinations which consist of class test, quizzes, class participation, home assignments, project reports, presentation, Regular Attendance (i.e Minimum 85%)

Subject Code	Subject Title	Teaching Scheme			Exam Scheme					
		Th./ Tut	Pr.	Cr.	Theory		Practical		T.W + Sessional Marks	Total Marks
					Hrs	Max Marks	Hrs	Max Marks		
BCA 502	Web Technologies – II (Asp.NET)	4		4	3	60			40	100
BCA 507		-	2	2	-	-	3	30	20	50

UNIT-1 JavaScript

[20%]

- Intro – how to – where to java script use – introduction to functions
- Js statements (I/O) – comments – variables – operators

Control statements & Objects in JS

- Decision making – looping – branching – exception handling
- Objects (string , date ,array, math , array)
- Overview & handing events in JS

UNIT-2 Overview of E-Commerce

[50%]

Introduction to E-commerce and it's infrastructure

- Introduction to E-Commerce
- Internet – intranet – extranet
- Business transaction models (B2B , B2C , C2C , B2G, E-Governance)
- Traditional commerce V/s E-Commerce with history
- Various economy in business transaction (Transaction Cost Model , Market Hierarchy Model , Network Effect Model)
- EDI & Types of EDI
- VAN (Value Added Network) & VPN (Virtual Private Network)
- Introduction of online payment , risk factor of it

- Types of online payment with its' comparison

Web Server and Web hosting

- Different types of web server (IIS , Apache ... etc)
- Various types of hosting and it's comparison
(Dedicated Hosting, Shared Hosting)

Cybercrime, Cyber Security

- Introduction to Cyber Crime
- Introduction to Cyber security
- Need cyber security

UNIT-3 ASP.NET with Ecommerce website development

[15%]

Introduction to ASP.NET

- Introduction to ASP.NET and its features
- Components of E-commerce development with various types of tools
- Detail about authentication and authorization with log in control in ASP.NET
- Catalog design and development – image uploading
- Validation & overview of AJAX controls in ASP.NET
- Ecommerce Website designing and Development
(Modules – Login, Catalog, Wish list, Shopping cart, paypal)

UNIT-4 Content Management System : Word press

[15%]

Introduction of WordPress

- Compression to other CMS (Joomla, Magento etc.)
- Features of Wordpress
- WordPress installation
- Permalinks for wordpress clean url
- Creating simple content : Page and Post
- Concept of Post Type

Basics of WordPress

- Theme files introduction
- Template tags and Page Template
- Creating custom widgets area
- Shortcode

Practical :

- **Javascript applications involving**Simple variable , control statement base application of java script
- Javascript involving events and functions with their interactions
- Simple master – content webpage in asp.net 2.0 and various designing layouts , with interaction of CSS with web page.
- Create login , validation , File - upload – download controls to web technology
- Interact with data base and e-commerce web site designing (Catalog , Shopping cart , Pay pal ..etc)
- Creating simple web site with mechanism of authentication and authorization using wordpress.

Textbooks :-

- Fourth Edition E-Commerce [Publish by :- Thomson , Author :- Gary P. Scneider]
- Black Book ASP.NET 2.0 [Publish by :- Paraglyph Press , Author :- Belmaks Solution Team Dreamtech Software Team]

Other Reference book :

- ASP.NET by Shyam Cahvda [Publish by :- Nirav Publication]

Web Reference / Online References

- www.w3schools.com
- http://docs.joomla.org/Main_page
- www.wikipedia.org
- www.dotnetspider.com
- <https://wordpress.org>