

**INSTRUCTIONS TO PAPER SETTERS:**

1. Question No. 1 should be compulsory and cover the entire syllabus. There should be 10 questions of short answer type of 2 marks each, having at least 2 questions from each unit.
2. Apart from Question No. 1, rest of the paper shall consist of four units as per the syllabus. Every unit should have two questions to evaluate analytical/technical skills of candidate. However, student may be asked to attempt only 1 question from each unit. Each question should be 10 marks including subparts, if any.

**OBJECTIVE:** *In this course student will learn how to design and develop a dynamic website. This course also provides some basic knowledge of web services which are useful for the same.*

**PRE-REQUISITE:**

- Web Designing Tools
- Object-Orientated Paradigm
- Concept of a Namespace

**UNIT-I**

Overview of Internet and web, HTML Tags, Forms & Frames , Introduction to Java Script and Cascading Style Sheets, DHTML, Using various Web Design Tools like Dream Weaver , Gif Animator etc

[No. of Hrs 10]

**UNIT-II**

ASP.Net, **Working with ASP.Net Web Forms:** Building ASP.Net Page, Building Forms with Web Server Controls, Performing Form Validation with Validation Control, Advanced Control Programming. **Working with ADO.Net:** Introduction to ADO.Net, Binding Data to web Control, Using the DataList and DataGrid Controls, Working with DataSets, Working with XML.

[No. of Hrs 10]

**UNIT-III**

Working with ASP.Net Applications: Creating ASP.Net Application, Tracking User Sessions, Caching ASP.Net Application, Application Tracking and Error Handling. Securing ASP.Net Applications: Using Form-Based Authentication, Using Windows-Based Authentication, Encrypting Data over the Network.

[No. of Hrs 10]

**UNIT-IV**

Web Services: Introduction to Service-Oriented Architectures, XML basics, SOAP, SOAP message structure, WSDL, UDDI, Overview of Grid and Cloud Computing.  
Latest trends in Web technologies. A Case Study for developing interactive web applications

[No. of Hrs 12]

**TEXT BOOKS:**

1. K. K. Sharma, "Web Technology", A.B. Publication Delhi, First Edition, 2008.
2. Stephen Walther, "ASP.NET", Pearson Education, Second Edition, 2004.
3. Ethan Cerami, "Web Services", O'Reilly Media, 2002.
4. Achyut S Godbole and Atul Kahate, "Web Technologies", Tata McGraw Hill.
5. Heith Morneau, "Active Server Pages ", Vikas Publishing House.

**REFERENCES:**

1. Rai Kamal . "Internet and Web Technologies". TMH

2. Deitel, "Internet & World Wide Web , How to Program", PHI.
3. V. K. Jain, "Advanced programming in Web Design", Cyber tech.
4. Rick Dranell, "HTML4 unleashed", Techmedia Publication, 2000.
5. T. M. Ramachandran , "Internet & Web development", Dhruv.
6. James L Mohler and Jon Duff, "Designing interactive web sites", Delmar Thomson Learning.
7. Ivan Bay Ross, "HTML, DHTML, Java script, Perl CGI", BPB.
8. Kathleen Kalata, "Web Application using ASP.net 2.0", 2<sup>nd</sup> Ed. , 2009.
9. Anders Moller, Michael Schwartzcach, "An Introduction to XML and Web Technologies", Pearson, 2009.
10. Malt. J. Crouch, "ASP.net and VB.net Web Programming", Pearson, 2002.
11. Jeffrey C. Jackson, "Web Technologies- A Computer Science Perspective", Pearson, 2005.