

**Course Title: Net Centric Computing****Course no:** Csc-360**Credit hours:** 3**Nature of course:** Theory (3 Hrs.) + Lab (3 Hrs.)**Full Marks:** 70+10+20**Pass Marks:** 28+4+8**Course Synopsis:** This course explores the concepts of developing web technology.**Goal:** To provide the knowledge of Web Centric Computing Using Active Server programming.**Course Contents:****Unit 1. Introduction****4 Hrs.**

Behind the scenes: Introduction, benefit and application of ASP; Introduction to IIS: Features, properties and application of IIS and MMC, Virtual directory properties; ASP requirements: Need for ASP, Scripting capabilities, Recognizing individuals, Database access, State maintenance, ASP extensibility.

**Unit 2. Intrinsic ASP Objects****6 Hrs.**

The response object: ASP objects, Sending text with the response object and embedded quotes, Using variables, Other response; The request object; The application and server objects: Threads, Application variables and use, The server object, Limitation of application variables; The session object.

**Unit 3. Writing Server-Side Code****8 Hrs.**

Coding using VBScript and JScript, The scripting dictionary object, File access with ASP, Debugging ASP and error-handling.

**Unit 4. Using Components****5 Hrs.**

The browser capabilities component: Difference between browser, Components properties/methods, working and capabilities; Other ASP components; Sending and receiving E-mail with ASP.

**Unit 5. Accessing Databases with ASP and ADO****7 Hrs.**

Introduction to relational databases and SQL, Introduction to ADO, Accessing data with ADO, Controlling transactions in ASP.

**Unit 6. ASP Applications****7 Hrs.**

Introduction to ASP applications, State maintenance in ASP applications, Controlling access and monitoring, Planning application, Develop a sample project using ASP.

## **Unit 7. Advanced ASP**

**8 Hrs.**

Client-side scripting, Building own components, Automating active server pages, Efficiency and scalability.

**Laboratory works:** Exercises covering all features of above.

**Text / Reference Book:** Active Server Pages 3, a Russell Jones, BPB Publications, New Delhi, 2003.