JYOTI NIVAS COLLEGE AUTONOMOUS SYLLABUS FOR 2018 BATCH AND THEREAFTER

Programme: B.C.A

WEB PROGRAMMING

Course Code: 18BCAVT3

COURSE OBJECTIVES:

- To learn about XML and XSL Transformations
- To enable students to designweb applications using ReactJS.
- To learn about .NET technology,this provides Multilanguage environment.
- To acquire the nature of the development and deployment cycles of enterprise applications.

LEARNING OUTCOMES:

- To understand the XML and XSL Transformations
- To understand ReactJS scripts to handle web applications.
- To understand about windows forms, Web Forms, ADO.NET Data Access and Crystal Reports.

UNIT - I

XML: Introduction, XML Structure, Xml Elements, Adding Attributes, comments.

Document Type Definition (DTD): DTDs and Validation, Adding DTDs to your document, Defining DTD Entities: Understanding Entities.

XSL Basics: Introduction, XSL Transformations.

UNIT - II

ReactJS Introduction:Introduction on ReactJS, Features, Advantages, Limitations, Environment Setup, Stateless and StatefulComponents, State Object, Props Overview & Validation.

UNIT - III

ReactJSComponentAPI :Components of API, Component lifecycle methods, Forms, events, using refs, keys, Router.

UNIT - IV

.NET framework: The orgins of .NET technology, CLR, CTS, CLS, MSIL, Managed code. **ASP.NET:** Setting up ASP.NET and IIS, developing ASP.NET application, Differences between web-based and windows based application, ASP.NET Page Life Cycle, Tasks and Events. **ASP.NET Controls:** Standard web controls, validation controls, state management, handling exceptions.

12 HRS

10 HRS

No. of Hours: 60

Semester: V

10 HRS

16 HRS

UNIT - V

12 HRS

ADO.NET: **ADO.NET**- Creating a database, creating web sites for database use, entering data from a web site, **Data Binding** – Repeater, DataList, DataGrid.

Crystal Report – Connection to database, Table, Queries, Building Report, Modifying Report, Formatting fields.

REFERENCES:

- 1. Heather Williamson, The Complete Reference XML, Tata McGRaW-HILL Edition, 2001
- 2. <u>https://www.tutorialspoint.com/reactjs/reactjs_overview.htm</u>
- 3. https://goalkicker.com/ReactJSBook/ReactJSNotesForProfessionals.pdf
- 4. E.Balaguruswamy. <u>Programming in C#</u>. Tata McGraw Hill Publications. Third Edition.
- 5. William B. Sanderse. <u>ASP.NET A Beginner's Guide</u>. Tata McGraw Hill Education private limited Edition.