**GOVERNMENT POLYTECHNIC COLLEGE**

**PURASAWALKAM, CHENNAI - 12**

**DEPARTMENT OF COMPUTER ENGINEERING**

**III YEAR / V SEM / 1st SHIFT**

**SUBJECT LOG : 35253- COMPONENT BASED TECHNOLOGY**

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| **Subject handled by:** DEVARAJ D. **Designation :** Part Time / Guest Lecturer  |
| **HOURS** | **CHAPTER NO** | **PORTIONS COVERED** | **DATE** |
| **UNIT 1 : INTRODUCTION TO .NET FRAMEWORK (10 HRS)** |
|  | **1.1** | Dot Net Architecture - Managed code and CLR | 13-06-2018 |
|  | Intermediate Language - Metadata | 13-06-2018 |
|  | JIT Compilation - Automatic Memory Management | 14-06-2018 |
|  | **1.2** | Common Type System  | 15-06-2018 |
|  | Common Language Specification | 18-06-2018 |
|  | Assembly and Namespace | 20-06-2018 |
|  | **1.3** | Using .Net Framework, Exploring the Visual Studio | 20-06-2018 |
|  | System Requirements - Versions - .Net Objects | 21-06-2018 |
|  | **1.4** | ASP.Net .Net Webservices and Windows forms | 22-06-2018 |
| **UNIT 2 : INTRODUCTION TO C# (10 HRS)** |
|  | **2.1** | Variables and Constant - Datatypes - Declaration | 25-06-2018 |
|  | Operators - Types - Precedence - Expressions - Program Flow | 26-06-2018 |
|  | Decision Statements - if…then, if…then…else Select case | 26-06-2018 |
|  | **2.2** | Looping Statement | 29-06-2018 |
|  | Looping Statement Continuation | 04-07-2018 |
|  | **2.3** | Value Datatypes - Structures-Enumerations, Reference Datatypes | 04-07-2018 |
|  | Arrays | 05-07-2018 |
|  | **2.4** | Abstract - Override methods - creating and using your own class | 06-07-2018 |
|  | Data Member and Member Methods | 06-07-2018 |
|  | Instantiate an object - this keyword | 11-07-2018 |

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| **UNIT 3 : Window Application using Window Forms (10 HRS)** |
| **HOURS** | **CHAPTER NO** | **PORTIONS COVERED** | **DATE** |
|  | **3.1** | Creating Windows forms - Working with tools box Button & Checkbox | 12-07-2018 |
|  | Combo box, Label, List box and Radio button | 13-07-2018 |
|  | Text, Group and Picture box | 20-07-2018 |
|  | **3.2** | Advanced Controls and Events full Topics covered | 01-08-2018 |
|  |
|  | **3.3** | Multiple Document Interface full Topics covered | 02-08-2018 |
|  | 03-08-2018 |
|  | **3.4** | Creating menus - Menu items- Creating sub menus - Shortcuts | 16-08-2018 |
|  |
|  |  | Context Menu using Dialog Box - Show Dialog() Method | 18-08-2018 |
| **UNIT 4 : Application Development Using ADO.Net (10 HRS)** |
|  | **4.1** | Architecture of ADO.Net -  | 20-08-2018 |
|  | ADO.Net Provider Connections |
|  | Command - Data Adapter - Dataset | 20-08-2018 |
|  | **4.2** | Connecting to Data Source, Accessing Data with Dataset & Data Reader | 24-08-2018 |
|  | Modifying table data using command objects  | 27-08-2018 |
|  | Understanding Dataset and working with Data column and Row |
|  | Data Table and Working with the Data Grid View | 27-08-2018 |
|  | **4.3** | Create ADO .Net Application- Using Stored Procedure | 29-08-2018 |
|  |
|  | 30-08-2018 |
| **UNIT – V XML (10 Hrs)** |
|  | **5.1** | HTML vs XML - Browsing and Parsing XML | 30-08-2018 |
|  | Creating XML file and well formed XML Document | 05-09-2018 |
|  | XML Components - elements-entities-comments-PI-Attributes | 05-09-2018 |
|  | **5.2** | Declaration in DTD full topics covered | 08-09-2018 |
| **HOURS** | **CHAPTER** | **PORTIONS COVERED** | **DATE** |
|  |  **5.2** | Construction of an XML document - XML Namespace - Declaring Namespace | 08-09-2018 |
|  | Default Namespace - XML Schema - Need & use of Schema  | 12-09-2018 |
|  | Building blocks - simple - Defining and complex elements |  |
|  |  **5.4** | XML Serialization with .Net Framework | 14-09-2018 |
|  | SOAP Fundamentals | 11-09-2018 |
|  | SOAP with .Net Framework | 15-09-2018 |