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| 13CS4103 | - | C # AND .NET FRAMEWORK |

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| Hours / Week | : | 4 |  | Sessional Marks | : | 40 |
| Credits | : | 4 |  | End Examination Marks | : | 60 |

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| **UNIT – I** |
| **Basics Of C#**: Introducing C#, Understanding .NET, Overview of C#, Literals, Variables, Data Types, Operators, Expressions, Branching, Looping, Methods, Arrays, Strings, Structures and Enumerations. |
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| **UNIT – II** |
| **Object Oriented Aspects Of C#**: Classes, Objects, Inheritance, Polymorphism, Interfaces, Operator overloading, Delegates, Events, Errors and exceptions. |
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| **UNIT – III** |
| **Application Development On .NET**: Building windows applications, Accessing data with ADO.NET. |
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| **UNIT – IV** |
| **Web Based Application Development On .NET**: Programming web applications with web forms, Programming web services. |
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| **UNIT – V** |
| **The CLR And The .NET Framework**: Assemblies, Versioning, Attributes, Reflection, Viewing metadata – Type discovery, Reflecting on a type, Marshalling, Remoting, Understanding server object types, Specifying a server with an interface, Building a server, Building the client – Using single call, Threads. |
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| TEXT BOOKS |
| 1. E. Balagurusamy, Programming in C#, TMH, 2004.
2. J. Liberty, Programming C#, 2nd Edition, O’Reilly, 2002.
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| REFERENCE BOOKS |
| 1. Herbert Schildt, The Complete Reference −C#, TMH, 2004.
2. Robinson et al, Professional C#, 2nd Edition, Wrox Press, 2002.
3. Andrew Troelsen, C# and the .NET Platform, A1 Press, 2003.
4. S. Thamarai Selvi and R. Murugesan, A Textbook on C#, Pearson Education, 2003.
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