

**COURSE CODE:**

**IGIT– 603-DSE3**

**COURSE TITLE:**

**.NET TECHNOLOGIES AND C# PROGRAMMING**

**CREDITS**

**4 + 2 =06**

### **Unit I**

Understanding .NET, the .NET framework, Common language runtime, common type system, Evolution of C#, characteristics, difference from C++ and java, Visual studio.NET overview, Overview of C#,syntax,command line arguments, Literals, variables and data types, Operators and expressions, Decision making and branching, Loops in C#

### **Unit II**

Methods in C#, pass by value, pass by reference, handling arrays, manipulating strings-String methods, mutable strings, Structures and enumerations, Classes and Objects,Constructors,Destructors,Inheritance and Polymorphism-Abstract methods/classes, sealed methods, Interfaces-multiple inheritance

### **Unit III**

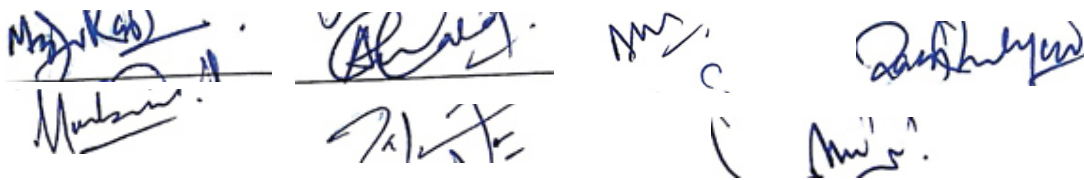
Operator overloading-Overloading Unary and Binary operators. Delegates and events, Managing errors and exceptions, Using try and catch, using finally statements, Multithreading in C#, scheduling a thread, Thread synchronization

### **Unit IV**

Windows and Web application development in .NET, Understanding Visual Studio,C# IDE, Basic Window Controls: Text Box, Label, Check Box, List Box, Checked List Box, Radio Buttons, Buttons, Tree View and List View.

### **Recommended Books**

- 1) ASP. Net 4.5, Covers C# & VB, Kogent Learning, McGraw Hill Edu.
- 2) C#4.0: The Complete Reference, H. Scheldt, Prentice Hall
- 3) ASP. Net: The Complete Reference, Matthew Macdonald,Mcgraw Hill Edu
- 4) Programming in C#: A Primer, E. Balagurusamy, McGraw Hill Edu



The image shows four handwritten signatures or initials, each with a horizontal line underneath. From left to right: 1) A signature that appears to be 'M. J. K. G.' with 'M. J. K. G.' written below it. 2) A signature that appears to be 'A. K. G.' with 'A. K. G.' written below it. 3) A signature that appears to be 'M. J. K. G.' with 'M. J. K. G.' written below it. 4) A signature that appears to be 'A. K. G.' with 'A. K. G.' written below it.