

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT
M.Sc. (I.T.) [Five Years Integrated Course]
M.Sc. (Information Technology)
1st Semester Syllabus

Effective From July-2003

Paper No : 701

Paper Title : Advanced Programming Environment – I. (.Net & C#)

[L : 4, P : 0 Hrs]

- 1 .NET Architecture.**
- 2 Introduction to C#**
 - 2.1 The development of C#
 - 2.2 Comparison with C, C++, VB, and Java
- 3 C# Language**
 - 3.1 Data Types
 - 3.2 C# Predefined Types
 - 3.3 Complex Types
 - 3.4 Variables
 - 3.5 Constants
 - 3.6 Operators
 - 3.7 Flow Control
 - 3.8 Program Structure
- 4 Object Oriented C#**
 - 4.1 Method Overloading
 - 4.2 Construction & Disposal
 - 4.3 Operator Overloading
 - 4.4 Indexers
 - 4.5 Interfaces
 - 4.6 Collections
- 5 Exception & Error Handling**
- 6 Delegates**
- 7 Events**
- 8 C# Preprocessor Directives**
- 9 Assemblies, Threads, and AppDomains**
- 9 C# & Windows Forms**

Main Readings :

1. C# and the .NET Platform – Andrew Troelsen – a! Press
2. Professional C# - Wrox

Supplementary Readings :

1. C# The Basics – Vijay Mukhi
2. C# Essentials – Ben Albari
3. C# The Nuts & Bolts – Akash Sarat & Sonal Mukhi
4. C# Made Simple – BPB Publication