



SYMBIOSIS

INTERNATIONAL UNIVERSITY

Sub Committee for Curriculum Development

Specialization: Application Programming

Course Name: Introduction to .Net Framework

(UG/PG): UG

Number of Credits: 2

Level: 3

Learning Objective(s):

1. Understand .Net Framework
2. To learn uses of .Net Framework for windows application development.

Pre-requisites:

1. Understanding of Windows operating System
2. Understanding of principles of computer programming.

Pedagogy:

1. Lectures
2. Class work discussion
3. Lab session

Course Outline:

Sr. No.	Topics	Hrs
1	.Net Frame Work :- Introduction, Architecture of framework, framework versioning, current frame version, Framework Layer.	5
2.	Framework application life cycle: Language Compilers, Common Language Runtime (CLR), MSIL (Microsoft Intermediate Language) Code, Just In Time Compilers (JIT), Native Code, Managed and unmanaged code.	6

3.	The Framework Class Library (FCL), The Common Language Specification (CLS), The Common Type System (CTS), Garbage Collection (GC) .	5
4.	Frame Work Application Deployment: Deploying application, deployment unit assembly, introduction and types of assemblies. Adding and referring assemblies across the projects.	4
5.	Reflection API: Introduction and uses	4
6.	The Visual Studio.Net IDE:- Projects and Solutions, Toolbox, Properties and Class View Tabs, Writing First Hello World Console Application, Working Without Visual Studio.Net, Debugging project.	6
Total		30

Book Recommended:

- 1) .Net 4 for enterprise architects and developers, By Hate, Sudhansu, Paharia, Suchi Boca Raton, Florida Taylor And Francis , 2012
- 2) Beginning Visual C# 2012 Programming Karli Watson, Jacob Vibe Hammer, Jon Reid, Morgan Skinner, Daniel Kemper, Christian Nagel, Dec-12.
- 3) Professional C# 4 and .NET 4, Christian Nagel, Bill Evjen, Jay Glynn, Karli Watson, Morgan Skinner

Research Papers/Articles recommended for reading:

Suggested Evaluation Methods:

- 1) On line Test
- 2) Viva
- 3) Assignments

Parallel/Similar courses the existing curriculum:

S.No.	Name of the course	Institute where it was offered

Name of Member	Shrikant Mapari	Vidya Patkar		
Designation	Asst. Professor	Asst. Professor		
Org. / Inst.	SICSR	SICSR		
Signature				

Name of the Expert:

Signature:

Date: