

Lesson Plan

Name of the Faculty : Ms. Vinny Sukhija (ASSTT. PROFESSOR)

Discipline : MCA

Semester : 5TH

Subject : .net Framework with C# (MCA-603) /Practical (MCA 623)

Lesson Plan Duration : 15 weeks (from July, 2018 to Nov, 2018)

Work Load (Lecture/Practical) per week (in hours):Lecture: 3, Practical:2

Week	Theory		Practical	
	Lecture Day	Topic(including Assignment/Test)	Practical Day	Topic
1st	1 st	Origin of .net technology, Understanding .net platform		
	2 nd	Benefits and limitations of .net, MSIL, CLR		
	3 rd	Assignment on above topics/ Test 1		
	T1	Tutorial---review of lectures		
2nd	4 th	Building blocks of .net framework, CTS, CLS	1 st	Working in Visual Studio 2007
	5 th	.net Types, JIT compilation	2 nd	Working in Visual Studio 2007
	6 th	.net namespace, FCL		
	T2	Tutorial---problem/review of lectures		
3rd	7 th	.net programming Languages and interoperability	3 rd	Using ILDASM
	8 th	Introduction to C#, Data types	4 th	Programs to create simple C# program Program to implement Multiple Main
	9 th	How to Create a C# program, Variables, Literals		
	T3	Tutorial---problem/ review of lectures		
4th	10 th	Identifier, keywords, statements, Boxing unboxing	5 th	Programs to Implement Math Class, Program to implement Boxing unboxing
	11 th	operators	6 th	Program to implement

	12 th	operators		operators
	T4	Tutorial---problem/review of lectures		
5th	13 th	Control structure Looping structure	7 th	Programs to Implement control and looping structure
	14 th	Array List and passing array to function and returning array	8 th	Programs to Implement 1D Array and functions of Array class
	15 th	Array: 1D, and functions provided in array class		
	T5	Tutorial---problem/review of lectures		
6th	16 th	Array : 2D and jagged array	9 th	Program to implement 2D array
	17 th	String buffer class and functions	10 th	Program to implement String Buffer
	18 th	Assignment on above topics/ Test 3		Program to implement array as argument
7th	19 th	String and string functions		Program to implement String class and its functions
	20 th	Classes : constructor overloading	11 th	Program to implement inheritance and constructor overloading
	21 st	Inheritance: Single , multi level and hierarchical	12 th	
	T6	Tutorial---problem/review of lectures		
8th	22 nd	Usage of This, Super, overriding and hiding	13 th	Program to implement Overriding and hiding
	23 rd	Polymorphism: Compile time: operator overloading	14 th	Program to implement operator overloading
	24 th	Assignment on above topics/ Test 4		
	T7	Tutorial---problem/review of lectures		
9th	25 th	Abstract and base classes, Interface : used for multiple inheritance	15 th	Program to implement Interface
	26 th	Exception handling: Exception as objects, Exception hierarchy, Try catch finally, Throw	16 th	Program to implement Exception handling
	27 th	User defined Exception		
	T8	Tutorial---problem/review of lectures		
10th	28 th	Delegates and Event type	17 th	Program to implement

		Conversion		Delegates and event handling
	29 th	Namespace: System, input, Output	18 th	Program to implement namespace
	30 th	Multithreading		
	T9	Tutorial---problem/review of lectures		
11th	31 st	Windows Forms	19 th	Program to implement Windows Forms
	32 nd	Managing Console I/O operations	20 th	Program to implement console I/o operations
	33 rd	Window services		
	T10	Tutorial---problem/review of lectures		
12th	34 th	Architecture of ADO.net Data Provider, data Adapter, data Reader	21 st	Program to read data from access database
	35 th	Data set, Data Row, Data Column, Data Relation Difference between ADO and ADO.net	22 nd	Program to update Access data
	36 th	Asp.net Web forms		Program to develop Asp.net Web forms
	T11	Tutorial---problem/review of lectures		
13th	37 th	Assignment/Test on above topics	23 rd	Assignment/Test on above topics
	38 th	Web Services	24 th	Program to create Web services
	39 th	Unsafe Mode, Graphical Device interface		
	T12	Tutorial---problem/review of lectures		
14th	40 th	Distributed Application in C#	25 th	
	41 st	Built-in Attributes	26 th	Program to create built in Attributes
	42 nd	Custom Attributes		
15th	43 rd	.net Assemblies Features and Structures		Program to create custom Attributes
	44 th	Private and Shared Assembly	27 th	Lab Assignments
	45 th	Problem session	28 th	

(Ms Vinny Sukhija)

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