Ministry of Higher Education and Scientific Research
Lebanese French University – Erbil
College of Engineering and Computer Science
Department of Information Technology

Visual Programming-I

Third Year – First Semester

Asst. Prof. Ashish Sharma

Academic Year: 2023-2024

Course Book

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S. No.	Information	Details
1.	**Course Name**	Visual Programming-I (with C#)
2.	**Course Code**	IT301VP
3.	**Lecturer In-charge**	Ashish Sharma
4.	**College/Department**	ECS/Information Technology
5.	**Contact Information**	E-mail: ashish.sharma@lfu.edu.krd Mobile No.: 0964-7507231261
6.	**Time (in hours) per Week**	Theory: 02 Hours Practical: 02 Hours
7.	**Office Hours**	Saturday to Wednesday
8.	**Teacher's Academic Profile**	Master of Technology in Computer Science (CS) Degree passed in year 2012 from Jamia Hamdard University Campus, New Delhi, India with 08.09 CGPA. (Division: First) Master of Computer Applications passed in the year 2007 from MIET, Meerut, UP, India is affiliated to UP Technical University Lucknow, India. (Division: First) Bachelor of Science passed in the year 2003 from NAS PG Degree College, Meerut, UP, India affiliated to C.C.S. University, Meerut, UP, India with (Mathematics, Optical Instrumentation and Physics). (Division: Second) To enhance my knowledge, I have attended many seminars and conferences on technically good research topics during my whole career and study yet. Also, I work on, to minimize the gap technically of our society from technological aspects and physical aspects.
9.	**Academic Title**	Assistant Professor
10.	**Keywords**	Program Architecture, C# Program Structure, OOPs Implementation
11.	**Course Overview:** ● This course is designed to impart knowledge on the object-oriented concepts and implementation using C# with examples and applications. ● Get an idea of Class and objects. ● Overload several operators, functions and constructors. ● Inherit the properties from the base class.	

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12.	**Aims & Objective:** The students are: ● Able to design program for any application using classes and objects. ● Able to construct program using operator overloading and functions using constructors for any requirement ● Able to decompose different classes and use parent class properties in another class, it saves programmer's effort also line of code. ● Able to design applications using data storage for long time in the form of files. There are many different types of files as per requirement.
13.	**Course Requirement:** ● All students should attend lectures carefully. Lecture delivery may be On-line or Off-line. ● All students should attend on Classroom Tests, Discussions, their Assignments, and Examinations such as Mid-term and Final.
14.	**Teaching and Learning Method:** ● Online Video Lectures ● E-learning Methods ● White Board ● PPT Presentation ● Team Work ● Project Show (Practical Session) ● Assignments
15.	**Assessment Scheme:** ● 5 % Assignments/Attendance ● 10 % Class Tests and Quizzes ● 25 % Mid-term Examination ● 10 % Practical Examination ● 50 % Final Examination
16.	**Students Learning Outcome:** ● Able to think about how to plan for programming to develop a new program or modify an existing program. ● Able to know about how to analyze, design and develop an appropriate program. ● Able to know about how to use syntactical and logical techniques for developing a program. ● Able to know about how to work on software modules development. ● Able to know about how to develop a proper documentary of a system for further use or study.
17.	**Course Reading List and References** ● **Book:** Herbert Schildt- C# The Complete Reference- Tata McGraw Hill ● **Book:** E Balagurusamy- Object Oriented Programming C#- Tata McGraw Hill
18.	**Course Content**

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Course Content

S. No.	Lecture Week	No. of Hours	Topics
1.	Week-1	3	Introduction about C#, C# Program Structure
2.	Week-2	3	Constant, Keywords, Data Types, Data Type Conversions
3.	Week-3	3	Data Type Conversions
4.	Week-4	3	OOPs Concept, Implementation of Class and Object Concepts
5.	Week-5	3	C# Constructor and Destructor-I
6.	Week-6	3	C# Constructor and Destructor-II
7.	Week-7	3	C# Methods-I
8.	Week-8	3	C# Methods-II
9.	Week-9	3	C# Methods-III
10.	Week-10	3	MIDTERM
11.	Week-11	3	C# Arrays-I
12.	Week-12	3	C# Arrays-II
13.	Week-13	3	C# Arrays-III
14.	Week-14	3	Strings
15.	Week-15		Final Examination

19.	**Examinations:** • **Compositional:** In this type of exam, the questions usually start with explain (How…? / What …? /Why…?) With their typical answers. (Example should be provided) • **True or False:** In this type of exam, a short sentence about a specific subject will be comment on the trueness or falseness of this particular sentence. (Example should be provided) • **Multiple Choices:** In this type of exam there will be a number of phrases next or below a statement, students will match the correct phrase. (Example should be provided). • **Fill blanks:** The description may be given and ask. • **Matching:** A number of questions in one side and their answers in another side will be presented. It will ask the students to match the questions with correct answers.
20.	Notes: