



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



Visual Programming-II

Third Year – Second Semester

Asst. Prof. Ashish Sharma

Academic Year: 2023-2024

Course Book



S. No.	Information	Details
1.	Course Name	Visual Programming-II (with C#)
2.	Course Code	IT302VP
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	Sunday to Thursday
8.	Teacher's Academic Profile	<p>Master of Technology in Computer Science (CS) Degree passed in 2012 from Jamia Hamdard University Campus, New Delhi, India, with 08.09 CGPA. (Division: First)</p> <p>Master of Computer Applications passed in 2007 from MIET, Meerut, UP, India, affiliated with UP Technical University Lucknow, India. (Division: First)</p> <p>Bachelor of Science passed in 2003 from NAS PG Degree College, Meerut, UP, India, affiliated to CCS. University, Meerut, UP, India with (Mathematics, Optical Instrumentation, and Physics). (Division: Second)</p> <p>I work on minimizing the technical gap of our society from technological and physical aspects by contributing areas of research work: Education Improvement Research, Artificial Intelligence, Blockchain, and the Internet of Things. I have presented and attended various Training, Workshops, Conferences, and Seminars to enhance or share my knowledge/ideas. So far, I have published more than ten (10) Research Articles, a Book Chapter, and a Patent in various reputed International Journals.</p>
9.	Academic Title	Assistant Professor
10.	Keywords	Program Architecture, C# Program Structure, OOPs Implementation
11.	Course Overview: <ul style="list-style-type: none"> • 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. 	



12.	<p>Aims & Objective: The students are:</p> <ul style="list-style-type: none"> • 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 save 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.	<p>Course Requirement:</p> <ul style="list-style-type: none"> • All students should attend lectures carefully. • All students should attend on Classroom Tests, Discussions, their Assignments, and Examinations such as Mid-term and Final.
14.	<p>Teaching and Learning Method:</p> <ul style="list-style-type: none"> • White Board • PPT Presentation • Team Work • Project Show (Practical Session) • Assignments
15.	<p>Assessment Scheme:</p> <ul style="list-style-type: none"> • 5 % Assignments • 10 % Class Tests and Quizzes • 25 % Mid-term Examination • 60 % Final Examination
16.	<p>Students Learning Outcome:</p> <ul style="list-style-type: none"> • 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.	<p>Course Reading List and References</p> <ul style="list-style-type: none"> • Book: Herbert Schildt- C# The Complete Reference- Tata McGraw Hill • Book: E Balagurusamy- Object Oriented Programming C#- Tata McGraw Hill
18.	Course Content

Course Content

S. No.	Week	No. of Hours	Topics
1.	Week-1	4	Inheritance
2.	Week-2	4	Polymorphism



3.	Week-3	4	Abstract, Interface
4.	Week-4	4	C# Access Modifiers/Specifiers
5.	Week-5	4	Properties and Indexers-I
6.	Week-6	4	Properties and Indexers-II
7.	Week-7	4	Delegates and Events-I
8.	Week-8	4	Delegates and Events-II
9.	Week-9	4	Exception Handling
10.	Week-10	4	MIDTERM
11.	Week-11	4	Introduction to Windows Forms
12.	Week-12	4	Adding Basic Controls to Windows Form
13.	Week-13	4	List Controls to Windows Form and Data Binding
14.	Week-14	4	Data Bindings
15.	Week-15	Final Examination	

19.	Examinations:												
20.	<p>Notes: The official LFU-IT e-Exam System is followed regarding this subject. The types of questions can be:</p> <table border="0"> <tr> <td> True/False</td> <td> Matching</td> <td> Multiple Choice Text</td> </tr> <tr> <td> Multiple Choice</td> <td> Sequence</td> <td> Word Bank</td> </tr> <tr> <td> Multiple Response</td> <td> Numeric</td> <td> Hotspot</td> </tr> <tr> <td> Type In</td> <td> Fill in the Blank</td> <td></td> </tr> </table>	True/False	Matching	Multiple Choice Text	Multiple Choice	Sequence	Word Bank	Multiple Response	Numeric	Hotspot	Type In	Fill in the Blank	
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