

Faculty of Commerce & Business Administration

Structured Programming

Information :						
Course Code :	BIT 302	Level	•	Undergraduate	Course Hours :	3.00- Hours
Department :	epartment : Department of Business Information Technology					
Instructor Information :						

Title	Name	Office hours		
Lecturer	Elshimaa Ahmed Ramadan Ibrahim Elgendi			
TEACHING ASSISTANT	Mohamed Mahmoud Hassan Hamada	1		

Area Of Study :

To introduce programming principles, with emphasis on good programming style, structured approach to program development, testing and documentation.

On completion, students should be able to use a high-level programming language to develop a structured program, with an awareness of the importance of programming style, programming testing and documentation, and program development methodology.

Description :

The design of GUI applications that can be utilized in a Client/Server environment, event-driven programming, professionalism of design, code, documentation, and usability of programs.

Course outcomes :				
a.Knowledge and Understanding: :				
1 -	Describe programming methodologies			
2 -	Explain the basic concepts of programming principles, including programming style, developing approach, implementation, testing and maintenance			
3 -	Identify programming data structures			
b.Intellectual Skills: :				
1 -	Build up analytical thinking and a habit of detailed documentation			
c.Professional and Practical Skills: :				
1 -	Design and develop structured computer programs			
d.General and Transferable Skills: :				
1 -	Formulate problems as steps so as to be solved systematically			



Course Topic And Contents :

Торіс	No. of hours	Lecture	Tutorial / Practical
Introduction	4	3	1
Algorithms Design-Write algorithms	4	3	1
Flowcharts and Pseudo Codes-Design a flowchart	4	3	1
Evaluation of Algorithms-Test the algorithms	4	3	1
Program Design and development cycle	4	3	1
Mid-Term 1	4	3	1
Data Types and Declarations, Operators and Expressions-Develop a first program using high level language	4	3	1
Input and Output-Develop a programs for In/Out	4	3	1
Program Control Structures-Develop a programs for conditional statements	4	3	1
Looping-Develop a programs for looping	4	3	1
Mid-Term 2	4	3	1
Arrays, Strings, and Unions-Develop a programs for Arrays	4	3	1
Program Testing and Debugging	4	3	1
Program Documentation and Maintenance	4	3	1
Revision	4	3	1

Teaching And Learning Methodologies :

Data show and computer in lectures.
Demonstration videos.
Group discussion
Self-learning
Practical.

Course Assessment :					
Methods of assessment	Relative weight %	Week No	Assess What		
1st Mid-Term Exam	20.00	6			
2nd Mid-Term Exam	20.00	11			
Final Exam	40.00	16			
Semester Work	20.00	13			

Books :BookAuthorPublisherVisual C# 2010 How to ProgramPaul Deitel, Harvey DeitelPEARSON

Course Notes :



Handouts.

Recommended books :

Alice E. Fischer, David W. Eggert and Stephen M. Ross, Applied C: An Introduction and More, McGraw Hill, 2001.
Anany Levitin, Introduction to the Design and Analysis of Algorithms, Pearson Addison Wesley, 2003.

Web Sites :

- http://www.wikipedia.org/
- www.codeproject.com/