

Faculty of Computers & Information Technology

Introduction to Computer

Information :

Course Code : CSC 101

Level : Undergraduate

Course Hours : 2.00- Hours

Department : University Requirments

Instructor Information :

Title	Name	Office hours
Professor	Awad Hassb Allah Khalil Matous	16
Associate Professor	Osama Fathy Saleh Hegazy	15
Associate Professor	Osama Fathy Saleh Hegazy	15
Teaching Assistant	Basant Adel Enany Ali	2
Teaching Assistant	YASMIN AMR AHMED ANWAR ALI BADR	4
Teaching Assistant	Rahmatallah Hossam Farouk Hassan Mohamed AISofany	6
Teaching Assistant	Amany Hussein Hassan Mohamed Abou elnaga	4
Teaching Assistant	SALMA ROSHDY AHMED BADWY ALY	1
Teaching Assistant	SHAIMAA TAREK HASAN ABDEEN	1

Area Of Study :

Analyze the requirements to understand different components in computer system and operations of the computer systems.
 Apply the basic elements of computer hardware and software and their roles in a computer system.
 Use modern techniques to use Internet and WWW for searching and browsing information.
 Compare, evaluate and select methodologies to solve the algorithmic problems using pseudo code and flow chart.
 Apply the basic concepts of computer language and different number systems

Description :

Introduction to computer hardware, computer software and computer networks. Data internal representation in computer memory. Numbering systems. Problem solving techniques using Pseudocode (Structured English).

Course outcomes :

a.Knowledge and Understanding: :

1 -	Demonstrate knowledge and understanding of the basic elements of
2 -	Understand how to use Internet and WWW for searching and browsing
3 -	Understand the basics of software development.
4 -	Describe the different components in computer system and operations of the computer systems.

b. Intellectual Skills: :

1 -	Demonstrate knowledge and understanding of standard methods and approaches for problem solving
2 -	Design and represent an algorithmic solution for a given algorithmic problem
3 -	Demonstrate knowledge and understanding of the algorithmic approach for problem solving..

c. Professional and Practical Skills: :

1 -	Ability to develop and produce diversity of computer applications using Word processing, Spreadsheet, Database and PowerPoint Software tools..
2 -	Implement the algorithmic solution using C++ as a programming language
3 -	Realize the different techniques of problem solving such as Pseudo code and flow chart.
4 -	Acquire a set of fundamental research skills from different resources

d. General and Transferable Skills: :

1 -	Demonstrate knowledge and understanding of using C++ in implementing various problem solutions in different application areas.
2 -	Apply communication skills in presentations and report writing using various methods and tools

Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
Introduction To Computer and Information Technology &	2	2	
Computer Hardware Components & The von Neumann Model	2	2	
Computer Hardware Components	2	2	
Computer Software	2	2	
Computer Networks, Internet and WWW	2	2	
Problem Solving Methodologies and Algorithmic Approach	2	2	
Mid Term Exam	1		
Problem Solving Methodologies and Algorithmic Approach	2	2	
Pseudo Code (P1)	2	2	
Pseudo Code (P2)	2	2	
Pseudo Code (P3)	2	2	
Numbering Systems	2	2	
Final Exam	2		

Teaching And Learning Methodologies :

Interactive Lectures including discussion
Self-Study (Project / Reading Materials / Online Material / Presentations)
Problem Solving

Course Assessment :

Methods of assessment	Relative weight %	Week No	Assess What
Assignments	20.00	6	

Final Exam	40.00	14	
Midterm Exam (s)	30.00	9	
Others (Participation)	10.00		

Books :

Book	Author	Publisher
No Book	no	no

Course Notes :

Course Notes are available with all the slides used in lectures in electronic form on Learning Management System (Moodle)

Recommended books :

Zeltmann, Patt, Patel, Introduction to Computer Architecture and Programming, 2nd Edition, 2009. ISBN: 978-0072376838
 Dean, Introduction to Programming with Java: A Problem Solving Approach, 2nd Edition, 2014. ISBN: 978-0073376066
 Patt, Patel, Introduction to Computing Systems, 2nd Edition, 2004. ISBN: 978-0072467505
 Brian K. Williams, Stacey Sawyer, Using Information Technology: a Practical Introduction to Computer & Communication, 11th Edition, McGraw Hill, 2013. ISBN: 978-0073516882

Web Sites :

<http://www.mcgrawhillcreate.com/>