BIRZEIT UNIVERSITY

Introduction to Computers and Computing Ethics (COMP1310)
Course Outline – Second Semester 2021/2022

Course Information:

1- Course Code: Comp 1310
2- Course Name: Introduction to Computer and Computing Ethics
3- Pre-Requisite: Null

Course Description:

This course introduces the students to basic computer systems' terminology, structure, and data representation, as well as the usage of different popular computer applications. It also familiarizes students with algorithms and the process of writing pseudo code. The course also serves as an introductory course in programming by using C as a tool to design simple programs. In addition, the course touches on Computer Science as a discipline by presenting an overview of different Computer Science topics as well as the ethics of computing. Upon completion of this course, the students will have a basic understanding of simple Computer Science and computer programming concepts.

The Students Will Also be able to:

Use different popular computer applications such as MS Office. Write algorithms (pseudo-Code) to solve tasks.
Use C to build simple programs.

In this course, concepts are reinforced using practical exercises in weekly lab sessions as well as challenging and engaging assignments.

Faculty:

Instructor Name	Office	Email Address
Dr. Anas Arram	Masri318	aarram@birzeit.edu
Ms. Dima Tajji	Masri318	dtaji@bizeit.edu
Dr.Mohammed Alkhanafseh(Course Coordinator)	Masri314	malkhanafseh@birzeit.edu

Textbook:

A Balanced Introduction to Computer Science, by *David Reed*, 3rd Edition, 2011 Pearson Prentice Hall, ISBN 978-0-13-216675-1.

Problem Solving and Program Design in C , by **Jeri R. Hanly, Elliot B. Koffman** 7th edition) ,Addison Wesley.

Manuals:

Title: *Introduction to Computers and Computing Ethics* Comp131 LABORATORY WORK BOOK

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Grading Criteria:

Number	Description	Percentage
1	Midterm Exam	30%
2	Lab Work (5 Quizzes + 4 Assignments)	30%
3	Final Exam	40%
Total		**100%**

Course topics

Topic	Chapter/Description	Number of Lectures
Computer Basics	1	2
Numbering Systems	12	5
Algorithms	8	6
Internet and Networking	Extra Material and Ch. 3	2
Overview of C	Intro to C Programming, Data/Error types, Memory Concept, Arithmetic Operations and Intro to Text files	3
Top-Down Design w. Functions	Library functions, top-down design, and different types of functions	3
Selection Structures: If and Switch	Relational and logical operators. The if, if .. else, switch, and compound statements	3
Repetition and Loops	The while, and for. statements, nested loops, and break and continue statements.	4
Computer Science as a Discipline (Operating Systems, Software Engineering, Artificial Intelligence, and the Ethics of Computing)	Chapter Ten	**2**
		Total=30

Lab:

Lab #	Topic	Quizzes
1	**Introduction**	
2	MS Office (MS Word)	
3	MS Office (MS Excel)	**Q1 on MS Word**
4	MS PowerPoint	
5	Numbering System	
6	Designing Computer Algorithms	**Q2 Numbering System**
7	Programming C (Variables + Arithmatic Operations + Simple Prog	
8	Programming C (Variables + Arithmatic Operations + Simple Prog	**Q3 Algorithm**
9	Functions	
10	If Statements + switch	**Q4 Introduction to C**
11	Loop First Lab	
12	Loop Second Lab	
13	Pointers	**Q5 Loops**

Special Regulations:

- *Late/wrong assignments will NOT be accepted for any reason.*
- There will be **NO** makeup for short exams.
- Missing any exam without an **acceptable** excuse will result in a zero grade for that exam.
- Academic **honesty**:
  - Individual HW assignments *MUST* be done by each student on his/her own.
  - Cheating will result in an official university disciplinary review.