

4.2.2. Computer Science Courses (CCS)

CCS1101 Introduction to Computing

COURSE INFORMATION

Prerequisites	Academic Year & Level		Teaching Methods			Credit Hrs.
	Year	Semester	Lecture	Tutorial	Laboratory	
None	1	1	2	2	0	3

COURSE AIM

- Understand and state the importance, capabilities, and limitations of computers and computation.
- Identify and explain what computers are and how they work, including the computer hardware components and their types and specifications.
- Understand data representation and numbering systems.
- Understand system and application software with examples.
- Understand the use algorithms and flowcharts.
- Develop simple programs using a high- level programming language.

COURSE WEEKLY CONTENTS

1	Introduction
2	New Trends in Computing
3	New Trends in Computing cont.
4	Hardware and Computer Architecture
5	Computer Software
6	Algorithms Design and Problem Solving
7	Flowcharts and Algorithm Design part 1
8	Flowcharts and Algorithm Design part 2
9	Programming languages - Programming (Data types, variables, constants)
10	Programming (Arithmetic Expressions and Decisions)
11	Programming (Loops) part 1
12	Programming (Loops) part 2
13	Programming (Arrays)
14	Programming (Functions) part 1
15	Programming (Functions) part 2

STUDENT GRADING & ASSESSMENT

Weeks	Exams	Assign.	Quizzes	Reports	Present.	Lab.	Total
1 to 7	←		30	MARKS		→	30
8 to 12	←		20	MARKS		→	20
1 to 15	←		10	MARKS		→	10
16 or 17	40	Final					40

REFERENCES

Textbook	Behrouz A. Forouzan, Foundations of Computer Science, Cengage Learning .
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