KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS
Information and Computer Science Department

ICS 101 – Computer Programming (012)
Course Syllabus

INSTRUCTOR **DR.MOHAMMAD AL-SUGHAIYER** OFF ICE: 17 - 103 PHONE: 2997

Office Hrs: SAT & MON 9:00 - 9:50 AM

Course Description : An overview of the computer system, its main components and their functions. Programming in FORTRAN 77 with emphasis on a modular and structured problem solving approach that includes program coding, algorithm design, debugging and testing. Various programming problems will be illustrated as examples in the class.

Textbook: Introduction to Computer Programming using FORTRAN 77, Second Edition by Al-Dhaher, et, al. KFUPM Press, 1995.

GRADING POLICY :

TYPE	WEIGHT	TYPE	WEIGHT
MAJOR I	20%	LAB WORK	12%
MAJOR II	20%	LAB QUIZES	8%
FINAL	35%	CLASS QUIZES	5%

Attendance

- Attendance in scheduled lectures and labs is required and will be checked **regularly.** The grade will be lowered 0.5% for each lecture absence without official excuse.
- Any student who missed a class (Lecture or Lab) with an official excuse must present it to his instructor not later than **one-week** following his resumption of class attendance.
- As per the university regulations, missing 6 lectures will result in an immediate **DN grade**.
- Makeup of exams and lab work is not allowed.
- Copying will be dealt with severely.

Course Schedule

Wk. #	Ch. #	Date	Lecture	LAB
1	1	26 Jan – 1 Feb.	Introduction	No Lab.
2	2	2 – 8 Feb.	Arithmetic Computations	Lab1 [Windows + FORTRAN]
3	2	9 – 15 Feb.	Logical Operations	Lab2 [Arithmetic Operations]
		16 Feb - 1 Mar	**Id al-Adha vacation**	
4	3	2 – 8 Mar.	IF Structure	Lab3 [Logical Operations] **CLASS QUIZ 1**
5		9 – 15 Mar.	Problem Solving Session **EXAM I , Tue. 12 Mar. 6:00 pm**	Lab4 [IF]
6	4	16 – 22 Mar.	Functions	Lab5 [Functions] **LAB QUIZ 1**
7	4	23 – 29 Mar.	Subroutines	Lab6 [IF + Functions]
8	5	30 Mar – 5 Apr.	Do Loops	Lab7 [Subroutines] **CLASS QUIZ 2**
9	5	6 – 12 Apr.	While Loops	Lab8 [Do Loops]
10	6	13 – 19 Apr.	One–Dimensional Arrays	Lab9 [While Loops] **LAB QUIZ 2**
11		20 – 26 Apr.	Problem Solving Session **EXAM II , Tue. 23 Apr. 6:00 pm**	Lab10 [1-D arrays]
12	7	27 Apr – 3 May	Two – Dimensional Arrays	Lab11 [1-D arrays] **CLASS QUIZ 3**
13	8	4 – 10 May	File Processing & Output Design	Lab12 [2-D arrays]
14	9	11 – 17 May	Application Development	Lab13 [File] **LAB QUIZ 3**
15		18 – 24 May	Review	