

مقرر مقدمة في البرمجة CS 201

الفصل الدراسي الثاني 1435 - 1436 هـ

1 - معلومات المقرر : اسم المقرر : مقدمة في البرمجة رمز ورقم المقرر : (CS-201) عدد الساعات المعتمدة : (4).

2 - أستاذة المقرر :

3 - المراجع

For lectures: "Foundations of Computer Science", Behrouz A. Forouzan, second edition

For Lab : "Technical C++", Andrew C. Staugaard, Jr.

4 : Course Policies:

- When your absence exceeds the 25 % limit (~ 10 sessions), you may get DN in the course.
- Once labs or projects grades are given to you, you have only one week to contest the grade.
- No make-up exams will be given unless you have an acceptable written excuse.
- There will be a lab programming exercises which will be given in the lab and due the next lab period (Printed. But flash memory will be needed for continues projects).
- Also there will be programming assignments which you will do at home.
- There will be a programing final exam at the end of the semester.
- Late assignments will not be accepted without documentary evidence of a serious problem.

5 : Course Objectives:

Introduction to computer science course will give students the ability to:

- Identify the historical development of technologies and their applications.
- Distinguish and converting between different number systems.
- Recognize how data are represented and manipulated in computers.
- Describe the parts of computer hardware and how they work.
- Identify operating systems, algorithms, and programming Languages.

6 : Grading:

Course		Lab		Section	
Midterms	30	Homeworks	10	Quiz	5
Homeworks	5	Final Exam	10	Final Exam	10
Final	30				
Total	65	Total	20	Total	15
Total	100				

7 : Course Schedule:

Week#	Topic	Chapter#
1	Introduction	Chapter 1 (1.1 - 1.6)
2	Number Systems	Chapter 2 (2.1 - 2.5)
3	Number Systems	Chapter 2 (2.1 - 2.5)
4	Data Storage	Chapter 3 (3.1 - 3.6)
5	Data Storage	Chapter3+4
	Operations on Data	
6	Operations on Data	Chapter 4 (4.1 - 4.3)
7	Computer Organization	Chapter 5 (5.1 - 5.3)
8	Computer Organization	Chapter 5 (5.4 - 5.6)
9	Computer Networks	Chapter 6 (6.1 - 6.5)
10	Computer Networks	Chapter6+7
	Operating Systems	
11	Operating Systems	Chapter 7 (7.1 - 7.4)
12	Algorithms	Chapter 8 (8.1 - 8.4, 8.7)

8 : Section Schedule:

Week#	Topic
1	Problem solving
2	Data types: integer & float - Variables
3	Reading: cin statement - Constants
4	Operators: arithmetic & assignment - Math functions
5	Data types: char - Character functions
6	Data types: string - String functions
7	Operators: Boolean - Data types: bool & enumerated
8	Decision: if & if-else constructs
9	Decision: Nested if & if-else
10	Decision: switch
11	Decision: nested switch

9 : Lab Schedule:

Week#	Topic
1	Visual C++: installation, environment / Open and save document
2	Compiler / Writing: cout statement / Formatting Output
3	Data types: integer & float / Variables
4	Reading: cin statement / Constants, logical error
5	Operators: arithmetic & assignment / Math functions, using help
6	Data types: char, string / Character functions, String functions
7	Data types: char, string / Character functions, String functions
8	Data types: bool & enumerated / Decision: if & if-else constructs
9	Decision: if & if-else constructs
10	Decision: Nested if & if-else
11	Decision: switch

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