**King Saud University**

**College of Applied Studies &Community Services**

**Program: Natural & Engineering Sciences Program (NESP)**

**First Semester: 1438/ 1439**

**Introduction to C++ Programming CSC1101**

**Instructor**: Sara Almudauh

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**Office**: Building 26 office 2

**Office hours:** Thursday (10\_11)

**Course goal:**

Students are introduced to: Problem solving techniques using computers; Introduction to C++ programming languages including: General structure of C++ programming language; Inputs and outputs instructions; Variables and their types; Conditional and Loops Statements; Arrays, Function, Files and Structures, and sorting and searching techniques

**Text Book:**

C++ from the ground up, by Herbert Schildt

C++ how to program, by H. M. Deitel & P. J. Deitel

**Reference:**

Slides, lecture notes and the text book

**Assessment Plan for the Course:**

**Mid1**  15%

**Mid2** 15%

**Class Quizzes** 10%

**Tutorials** 5%

**Lab sheets** 5%

**Lab Evaluation** 10%

**Final lab** 10%

**Final**  30%

**Course Topics:**

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| **Week#** | **Topic** |
| 2 | *Introduction To Programming With C++* |
| 3 | *Input and Output Statements* |
| 4 | *Input and Output Statements* |
| 5 | *Constants and Variables*  ***Quiz*** |
| 6 | *Arithmetic, Relational and Logical Operators* |
| 7 | *Arithmetic, Relational and Logical Operator*  **Midterm Exam 1** |
| 8 | *Conditional Statements* |
| 9 | *Conditional Statements* |
| 10 | *Loops Statements* |
| 11 | *Loops Statements*  ***Q*ui*z*** |
| 12 | *Arrays* |
| 13 | *Arrays*  **Midterm Exam 2** |
| 14 | *Sorting and Searching techniques* |

**Notes:**

* Late assignment submission will be not accepted.
* Students are encouraged to discuss assignments but not copy.
* If you miss an assignment, you will get on a zero.
* Missed exams can be made up in cases of extreme circumstances and it covers all chapters.
* Attendance is very important if you absent more than 25% you will be forbidden to enter the final exam.