



# University of Management and Technology

School of Commerce and Accountancy

Quaid e Azam Campus

## Course Outline

<b>Course Title: Fundamentals of Computer Programming</b>	
<b>(CS201)</b>	
<b>Program</b>	ADP(CS)
<b>Credits Hours</b>	3
<b>Duration</b>	15 Weeks / 30 Sessions
<b>Prerequisites</b>	
<b>Resource Person</b>	
<b>Contact/Email</b>	

## Learning Methodology:

The teaching of the course will be via a series of lectures. This will be complemented by the use of class notes and an extensive range of web resources plus handouts.

Participants will be required to work in study groups for the final project that will be assigned to them at very beginning of semester. Participants are required to prepare and share a range of study material derived from the assessment process. The aim of the study groups is to enhance the learning environment of the class. Participants have to submit different documents during their work on project.

Participants should expect 4-6 quizzes during the semester. Quizzes will be unannounced. There shall be *no* makeup quizzes for missed sessions and/or low scoring quizzes. Submission deadlines for assignments, cases and the project will not be extended. Participants shall not waste their time and energies to plead for one.

## Learning Objectives:

The objectives of the course are to provide students with an appreciation of the major technical and practical issues of construct e-business. By the end of the semester, the student will be able to:

- Understanding the general concepts of e-business and its different terminologies.
- Developing business plan to initiate business for online transactions.
- Understanding of technical issues related to web site, domain registration, hosting, payment gateway, development, etc.
- Understanding different online marketing tools to promote our e-business.
- How to get different other business operations such as employee relationship, customer support, supply chain, etc. online to enjoy the real taste of e-business.

## Teaching-Learning Methodology:

***Note: Select methodologies as per nature of the course.***

- Lectures
- Recommended Text/Supplementary Texts
- Handouts
- Case Studies
- Skill Development Exercises
- Project Report/Term Paper
- Any other Teaching Tool.....

**Recommended Text Book:**

1. C++ How to Program, 7<sup>th</sup> Edition  
By: Deitel and Deitel.

Link

<https://cssubjects.skoze.com/wp-content/uploads/2015/01/c-how-to-program-7th-edition.pdf>

**Assessment & Evaluation:**

**Note: Please Specify the Weightage you want to assign to assignments and Final Project/ Project presentation/Presentation.**

Quizzes	15%
Assignments	} 20%
Final Project	
Project Presentation/Presentations	
Mid Term	25%
<u>End Term Exam</u>	<u>40%</u>
<b>Total:</b>	<b>100</b>

## SEHEDULE OF ACTIVITIES

*Note: Please fill the tasks/activities column according to your course plan*

Week	Contents/Topics to be Taught	Tasks/Activities
1	Introduction to C++,Syntax, Header files, Break statements, Uses	Course Outline Distribution
2	Comments, data types, primitive data types Escape Sequences	
3	Local, Global Variable Arithmetic Operators	Quiz 1
4	Arithmetic Operators Programs, Logical Operator	Assignment 1
5	Conditional statements, C++ if statement introduction, Syntax, multiple-if	
6	If -else Program, Nested if, if else-if .else Switch statements, Introduction, syntax, Switch-Programs	Assignment 2
7	While loops While loops- Programs, do -while, syntax ,Programs	Quiz 2
8	C++ for loops, syntax, Program Nested Loop, Syntax, Program	
9	C++ Arrays, Introduction, Syntax Arrays Program	
10	Multi-dimenational Array 2d-Array- Introduction ,Syntax	
11	2d Array- Programs, Dynamic memory allocation for Two Dimensional Arrays	Quiz 3
12	C++ Functions, Syntax, Decalartion, Calling Function, Types of Functions	
13	User-defined Function Default Arguments in C++ Functions, Array in function	Quiz 4
14	File Handling: Introduction, Syntax, ifstream ,ofstream	
15	File Handling-Programs	Assignment 4 Presentations (if any)

16	<b>END TERM EXAMINATION</b>	
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