

Programming Fundamentals

(CS 1002)

Dr. Muhammad Aleem,

Department of Computer Science,
National University of Computer & Emerging Sciences,
Islamabad Campus



1. Contact Information

About me:

- Muhammad Aleem
 - Ph.D. from University of Innsbruck, Austria (2012),
 - Specialization: Parallel and Distributed Computing

Contact Information:

- Office: 202C (2nd Floor, Block C)
- Phone Ext: 629
- Email: m.aleem@nu.edu.pk
- Co-Director: Parallel Computing and Networks research group



2. Course Consultation

Consultation Hours:



3. Class Policies and Guidelines

- Attendance policy: marking at the start of the lecture
- Plagiarism policy: as per outline



- Use of cell phones
- Discussion with fellows during class (unless needed for some announced task)
- Early leave (will result in absent)
- Frequent movement In-out during class



- Be interactive, ask questions
- Participate in the lecture
- Relax and learn ©



4. Course Coordination

 Lecture slides and other material will be shared on Google classroom

The class code is: kts6kea

URL:

https://classroom.google.com/u/0/c/NTI2NTQ5MTM4Nzk5

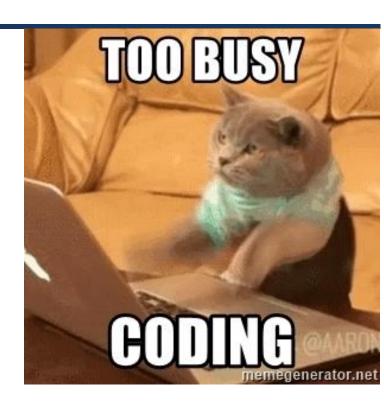


What is this Course About?

Its about knowing computers

Programming them.

 Assumptions: no prior knowledge of programming





5. Detailed Course Contents (1/2)



5. Detailed Course Contents (2/2)



6. Grading Policy

Grading policy: Absolute grading



7. Retake Policy

- Retake of missed assessment items (other than midterm/ final exam) will not be held (no retake of assignment/quiz/project).
 - Late submission (See Outline)
- For a missed midterm/ final exam, an exam retake/ pretake application along with necessary evidence are required to be submitted to the department secretary. The examination assessment and retake committee decides the exam retake/ pretake cases.



8. Plagiarism Policy

- Plagiarism in project may result in F grade in the course.
- Plagiarism in an assignment/quizzes will result in zero marks in the whole assignments/quizzes category.



9. Course Learning Outcomes (CLOs)

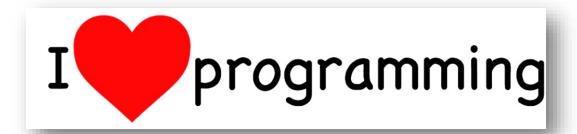
After completion of the course, the students shall be able to:

- Understand basic problem-solving steps and logic constructs.
- 2. Apply basic programming concepts.
- Design and implement algorithms to solve real-world problems.



10. Course Aims/Objectives

- To equip students with the basic computing concepts
- To provide them the ability to analyze the given requirements for solving problems in different domain
- To train students for implementing the solutions (C++
 programming language) on a computer system.





11. Text & Reference Books

Text Book:

Tony Gaddis "STARTING OUT WITH C++" 9th Edition

• Reference Books:

- Paul Deitel, Harvey Deitel "C++ How to Program" 10th Edition
- Walter Savitch "Problem Solving with C++" 10th Edition
- D. S. Malik, "C++ Programming: From Problem Analysis to Program Design" 6th Edition

Lecture Material (Acknowledgements)

Lecture material is based on several books and internet sources.



Any Questions?