

# EEE123/3 –Programming for Engineers

Lecturers:

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Dr Kamal Zuhairi Zamli ( EE3.22, [EEKamal@eng.usm.my](mailto:EEKamal@eng.usm.my) )

## Course Outline

WEEK	DATE	TOPICS
1	07/07/09	Introduction to course Introduction to Algorithms
2	14/07/09	How to build a C++ program How to write a C++ program Console input & console output
3	21/07/09	LAB 1 Arithmetic Operators How to Implement Arithmetic Operations
4	28/07/09	LAB 2 Condition: Relation Operators & Logic Operators Flowchart for conditions How to Implement Decision (if and switch-case)
5	04/08/09	LAB 3 Flowchart for repetition How to Implement Repetition (while & do-while)
6	11/08/09	LAB 4 How to Implement Repetition (nested while)
7	17/08/09 - 24/08/09	Mid-Semester Break
8	25/08/09	LAB 5 How to Implement Repetition (for & nested for)
9	02/09/09	Dr Kamal Zuhairi Zamli (functions, arrays, file input/output, pointers, structure, numerical methods)
10	08/09/09	
11	15/09/09	
12	19/09/09 - 27/09/09	Special Break
13	28/09/09	Dr Kamal Zuhairi Zamli (labs will be announced by Dr Kamal)
14	06/10/09	
15	13/10/09	
16	20/10/09	

## **Grading (100% coursework)**

- Tests (50%)
- Assignments, Labs & Quizzes & Attendance (50%)

## **Text Book & Exercise book**

- Tony Gaddis & Barret Krupnow (2007) *Starting out with C++*, 5<sup>th</sup> edition, Addison Wesley, Pearson International Edition.
- Schaum's Outline, John R. Hubbard, *Programming with C++*, McGraw Hill.

## **Reference Books**

1. Diane Zak (2005) *An introduction to programming with C++*, Thomson/Course Technology.
2. Brian Overland (2005), *C++ without fear*, Prentice Hall.
3. Chuck Easttom (2003), *C++ programming fundamentals*, Charles River Media.
4. M. Kumar (2002), *Programming with C++ made simple*, McGraw-Hill.

However, references must not be restricted to the above list only.

## **Lecture and Laboratory Regulations**

- Lecture and Lab attendance is compulsory. 3 absences without notice will be reported.
- An absence from a quiz, lab or test must be accompanied by a Medical Certificate (MC) from any USM Panel Clinic or USM Health Centre. MC from any other clinics is not acceptable.
- Students who are caught browsing the World-Wide Web (WWW) during lecture or lab session will be treated as absent and no lab and/or quiz marks will be considered.
- All given quizzes and/or exercises are unannounced, but are graded.
- Lab starts in week 3 in PPKT. Lab is at 2:00pm.
- Selective lab work will be graded.
- Questions for each lab will be given during the lab session to motivate self-learning and lecture-focus.
- Each lab work has to be submitted to the tutor at the end of the lab session.
- Late lab submission will not be accepted and will incur in zero mark.

## **Plagiarism Regulations**

- Students are encouraged to discuss the assignment question. However, **PLAGIARISM** (i.e. copying others' work) is not tolerable.
- Plagiarized assignments, or tests, etc will incur in 'F' grade or zero mark for those involved.