

# Recommended Books

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## ○ C++ Programming Today

- ☐ ***C++ Programming Today*, Barbara Johnston, Prentice Hall, 2001**
    - Text Book
    - Easy and Friendly
    - Incomplete
  - ☐ ***How to Program in C++ 4th edition*, Deitel & Deitel, Prentice Hall, 2003,**
    - Reference Book
    - Complex
    - Complete
  - ☐ **Shaum's outlines Programming with C++, John Hubbard, 2<sup>nd</sup> Edition**
    - Summary book
    - Lots of examples
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# Course Organisation

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## ○ Course date:

- Monday, January 10, 2005 through Wednesday, March 23, 2005
- Meeting day(s): Mondays and Fridays
- Meeting time(s):
  - Monday 09h15-10h15(lecture EM3.06)
  - Monday 15h15-17h15 (Lab 2.50)
  - Friday 12h15-13h15 (lecture EM3.06)
  - Lecturer: Dr Yvan Petillot room £.20, [Y.R.Petillot@hw.ac.uk](mailto:Y.R.Petillot@hw.ac.uk)

## ○ Aim of Course:

- To provide an introduction to object-oriented programming using C++
  - Introduction to the Java programming language.
  - Basics of Object Oriented Design and its C++ implementation.
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# Course Organisation

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## ○ Course Goals

- all aspects of Object Oriented Programming.
- 1: Introduction to Object Oriented Programming
- 2: Introduction to Classes
- (3: Operator overloading and friend functions )
- 4: Association, aggregation, composition and inheritance
- 5: Polymorphism in C++
- 6: Introduction to Object Oriented Analysis and Design
- 7: Templates and container classes

## ○ Course Requirements:

- Basic knowledge of C++ syntax and functional programming
  - Revision Material
    - First 7 chapters of C++ programming today
    - Online material <http://learn.hw.ac.uk/>
    - Revision lectures provided in the lectures notes of this course.
    - <http://www.ece.eps.hw.ac.uk/~ceeyrp/WWW/Teaching/B39HR1/c++.html>
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# Assignments and Exams

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## ○ Assignments

### Quizzes on WebCT : Covers all aspects of C++

- Revision Quizzes due in the first 4 weeks
- New Quizzes as we go along
- **Mainly for your own benefit**
- Marked only if failed to reach the grade after unlimited number of attempts

### Course Work

- Project Based
- Individual projects
- Given week 4/5 depending on progress
- About 50 hours of student efforts!

## ○ Exams:

- One written exam in April
  - Covers all aspects of the module
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# Tools

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## ○ **KDevelop on Linux**

- Integrated software development environment**
  - Contains Classes Browsers**
  - Editor, makefile generator and debugger provided**
  - LEFT FOR SELF STUDY BUT SUPPORT PROVIDED DURING LABS**
  - To Start KDevelop**
    - **Type kdevelop on command line**
    - **Open a new project**
    - **Select 'Terminal Application C++'**
    - **Use default parameters for everything else (will create a main for you)**
    - **Create files and write code OR**
    - **Import Files in Project (Use Project-> Add existing Files)**
    - **To Remove files, select them from the files menu on the left window**
    - **Once finished, go to build to compile (F8) and run program (F9).**
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# Tools

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## ○ **WebCT**

- Integrated course management software**
  - Contains Lecture Notes**
  - Contains Quizzes**
  - Contains Labs Code support**
  - Contains discussion list and email service**
  - Will be used routinely during the course**
  - Pilot study (1<sup>st</sup>)**
    - **Be patient**
    - **Provide constructive feedback**
  - To Log in Go to [webct.eps.hw.ac.uk](http://webct.eps.hw.ac.uk)**
    - **Username: You student name on PC CAL**
    - **Password: You name**
  - Choose C++Today(B39HV2)**
    - **Browse menus to see what's available**
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# Tools

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## ○ WebCT

### □ Quizzes

- You will need to do them
- Only attempt the ones that are marked as available
- Online feedback and marking is available
- IF YOU HAVE PROBLEM, DO NOT WAIT
  - Contact Me for B39HV2 problems
  - Contact John Pritchard ([J.Pritchard@hw.ac.uk](mailto:J.Pritchard@hw.ac.uk)) for WebCT problems

### □ Discussions

- I will set up discussions later in the course
  - Please try to participate
  - Please Create your own if you want
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