

CMT304: Programming Paradigms

Introduction

Víctor Gutiérrez Basulto

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Yearly Module

- Compulsory Module for MSc Advanced Computer Science
- Optional Module for MSc Artificial Intelligence

Course Instructors

- Dr Frank Langbein
- Dr Philipp Reinecke
- Dr Víctor Gutiérrez-Basulto ([module leader](#))

Module Overview

- Evaluate and apply a suitable programming paradigm and language to solve a given problem.
- Discuss and contrast the issues, features, design and concepts of a range of programming paradigms and languages.
- Implement advanced imperative and object-oriented techniques.

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Overall Structure

- Víctor Gutiérrez Basulto *first* half of Autumn semester
- Frank Langbein *second* half of Autumn semester
- Philipp Reinecke *first* half of Spring semester
- Frank Langbein *second* half of Spring semester

Overall Structure

Autumn Semester

- Logic Programming
- Functional Programming

Autumn Semester

- Script Programming
- Machine Programming
- Genetic Programming
- Advanced Imperative Programming

Overall Structure: Autumn Semester

- Lectures scheduled for 14:10-16:00 on Monday in T/2.07
- Labs scheduled for 16:10-17:00 on Monday in C/2.08
- Lectures on weeks 1, 2, 4, 5, 7, 8, 10, 11

Material/Support

- <https://learningcentral.cf.ac.uk/>
- Math support: <https://goo.gl/YiZDCz>

Assessment

- The module assessment will comprise of both coursework and examination
- Coursework — 25% in the first semester and 25% in the second semester
 - The assignment in the first semester will be given out in Week 4 and need to be submitted by Week 10
 - The assignment in the second semester will be given out in Week 4 and need to be submitted by Week 10
 - All courseworks are individual work
 - Assessment submissions: all via Learning Central unless otherwise instructed
 - **Feedback provided via Learning Central**
- Exam — 50%
- Re-assessment will take the form of re-sit examination
- **Extenuating circumstances procedure** for any detour from this plan!

Extenuating Circumstances

`http://cardiff.ac.uk/ec`

Credits to hours

| | | |
|---------|-----|-------------|
| Contact | CW | Unallocated |
| 40h | 20h | 140h |

- 20 credits \simeq 200 hours
- From the timetable, 40 hours lectures/seminars/labs (excluding breaks)
- 10 + 10 hours allocated for you to prepare your coursework submission
Facebook/Netflix/Snapchat/Instagram/Vine/Twitter time not included
- 140 hours unallocated: to be used to prepare for following lectures, studying **reading material**, and revising

The Importance of Reading Material

Topics in the exam paper can refer to reading material

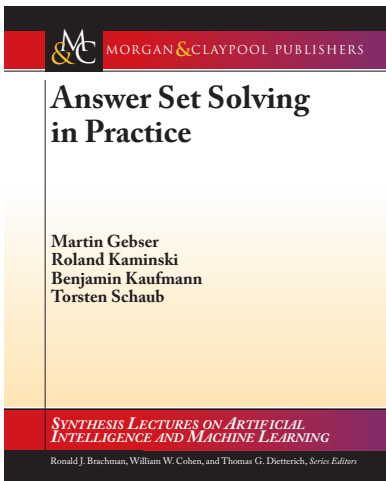
The importance of taking notes

- `https://www.youtube.com/watch?v=Bvsf591rYWE`
- ...

First Half of Autumn Semester Schedule

- Monday 30th September, 7th October, 21st October, 28th October

Textbook for the first half of the autumn semester



<https://goo.gl/9zr2Qi>

Free access from within the University Network