INTRODUCTION TO 4061CEM

DR IAN CORNELIUS

HELLO

- Welcome to **Programming and Algorithms 1**
- Module Team:
  - Dr Ian Cornelius, ab6459@coventry.ac.uk
  - Dr David Croft, aa9863@coventry.ac.uk

ABOUT THE MODULE

- Introduces you to the theory of programming and algorithms
- Language of choice this academic year is Python

LEARNING OUTCOMES

- On successful completion of this module, a student should be able to:
    1. Understand basic theoretical aspects that apply to programming
    2. Design simple software to meet given specifications
    3. Develop software based on a design
    4. Work with version control systems
    5. Use appropriate testing methods and tools

MODULE CONTENT

- Content will be delivered via two platforms, you only need to use one:
  - Aula
  - GitHub Pages

AULA

- Lectures and assessments
  - Content will be released on a weekly basis
- Submission links for coursework
- No Access?
  - Contact: CMD.FacultyRegistry.eec@coventry.ac.uk

GITHUB PAGES

- Lectures, assessments and lab projects
  - Content will be released on a weekly basis
- Mobile friendly
- Considered to be the most up-to date version of the module

MODULE ASSESSMENT

- There are two components for this module:
    1. an individual piece of coursework
    2. a group-based piece of coursework
- Both components will test you on the knowledge learnt during the course of the module

COURSEWORK 1

BRUTE FORCING A PASSWORD HASH

- Learning Outcomes Assessed: 3, 4 and 5
- Release Date: **10/10/2022**
- Submission Date: **24/10/2022**
- Weighting: 10 credits
- Submission via Aula using TurnItIn

" More details will follow upon the release of the coursework. "

COURSEWORK 2

LOCAL ENUMERATION AND PRIVILEGE ESCALATION

- Learning Outcomes Assessed: 1, 2, 3, 4, and 5
- Release Date: **24/10/2022**
- Submission Date: **21/11/2022**
- Weighting: 20 credits
- Submission via Aula using TurnItIn

> More details will follow upon the release of the coursework.

COURSEWORK SUBMISSION GUIDELINES

- You are required to submit a link to your GitHub repository, meeting the following:
    1. The repository is private
    2. You add the following collaborators to facilitate marking:
        - Dr Ian Cornelius, `ab6459`
        - Dr David Croft, `ac0745`
    3. For **Coursework 2** it is a group assignment, only add members as collaborators who are in your group
- Provide a copy of the source-code for the finished assessment in a Microsoft Word Document (`docx`)
    - Submission Example

> "
> These are important, and you must follow them very carefully. Failure to follow these guidelines will result in a marks being lost as outlined in the marking rubric.
> "

SUPPORT FOR THE MODULE

PROGRAMMING SUPPORT CENTRE

- Support sessions provided by the faculty
- Covers not just this module, but other modules and programming languages
- More information:
  - Programming Support Lab

GOODBYE

- Questions?
  - Post them in the **Community Page** on Aula
- Contact Details:
  - Dr Ian Cornelius, ab6459@coventry.ac.uk