

## University of Westminster

School of Computer Science and Engineering

4COSC008C Trends in Computer Science

Weighting: 40%

**Presentations (individual): Tuesday 05<sup>th</sup> September 14.00-16.00 via Teams.**

**This is the only date presentations will take place. Please confirm your 5 min slot with the module leader via email (sulochana.r@iit.ac.lk). The presentations link and your time slot will be sent to you by return, via email.**

**Deadline: Tuesday 05<sup>th</sup> September, 13.00pm (SL Time)**

**Submission:** Submit the presentation slides and individual report separately to relevant links on BlackBoard on or before 05/09/23 at 13.00.

### CW 1: Group Presentation and report

#### A. Aim

The purpose of this course work is to allow you to acquire and practice different essential learning and professional skills. In particular, it aims to give you the opportunity:

- To research, devise and deliver a 5 min. oral **individual** presentation, illustrated by PowerPoint or similar slides, and present your findings.
- To write a brief individual report of up to 1000 words summarising your findings.

#### B. Learning Outcomes (LO)

This course work reflects the module's summative assessment strategy, which involves a coursework with a report writing component and a presentation component.

This coursework allows students to collect information from a variety of academic, authoritative and trustworthy sources to analyse problems in familiar contexts. Students will have to produce a brief report, as per learning outcomes LO4 and LO5 below. Presentations will have to be delivered to support the written work.(LO4).

LO1 Reflect on the role of Computer Science as a discipline and its different branches, its relationships to other scientific and technological disciplines, and the social effects it has had;

LO2 Discuss with confidence key features of current trends in Modern Computing and their impact on your career planning and employability prospects;

LO3 Summarise the key components of a professional code of conduct and reflect on how the concepts it enshrines will affect your professional life;

LO4 Work as a team to prepare a presentation on the legal and ethical aspects of specified case studies; and produce a report detailing your work.

LO5 Engage in research and work within a commonly accepted academic and professional framework which employs appropriate styles of documentation and referencing.

#### C. BCS Core module accreditation criteria covered by this course work

2.1.1 Knowledge and understanding of facts, concepts, principles & theories.

2.1.6 Recognise legal, social, ethical & professional issues.

2.1.9 Knowledge of information security issues

2.3.1 Work as a member of a development team

2.3.2 Development of general transferable skills

#### D. Presentation Topics you can choose from

You should chose **ONE** of the two topics below. You cannot work on a topic which is not included below. From your chosen topic, choose ONE of the sub-questions (a. or b.) Your presentation and report should answer the same question i.e. 1a, OR 1b OR 2a OR 2b.

##### 1. Quantum Computing

- a. Overview of Quantum Computing. What benefits might we be able to achieve using Quantum Computing than we cannot achieve with conventional computers?
- b. How does the need for a Computer Scientist/Software Engineer to familiarise themselves with new Computing trends, such as Quantum Computing, relate to a Code of Practice (such as the BCS Code of Practice)? What is the purpose of such a Code of Practice?

##### 2. Cyber Security

- a. Overview of Cyber Security. What issues does Computer Forensics deal with and how can an awareness of these issues help us to better protect personal information?
- b. What is Computer Ethics? What are the ethical implications of ethical hacking?

#### E. Advice

Each student must research their chosen sub-question; plan the presentation; design a visual presentation; and present orally your research on 10<sup>th</sup> July, during your agreed 5 min slot (you will agree your slot and get the Teams link by emailing the module leader). Presentations will take place via Teams. Please contact the module leader to confirm the time slot and get the presentation link. Ensure that you have considered 4-5 different academic sources, **in addition to** lectures/independent study material to prepare your presentation. You need to **refer** to your sources in your presentation (in-text citation) and include them in your References section.

Ideally, a minimum of 3 of your sources will be **book or journal-based**, while the remaining can be from the Web. Please **do not** include wikis, personal websites, blogs, newspaper or magazine articles intended for a wider audience as part of your sources. If you find Wikipedia helpful as a starting point, please do not rely on it and do not include it as part of your references. If you include information from a website or a book in your presentation, whether quoted or in your own words, please ensure that the source appears next to it i.e. that it is **referenced**. If you use any diagram or picture from any source, which are not your own, please provide the reference underneath them, as well as in your 'References' section.

- Each student needs to prepare visual aids for their presentation (slides), using PowerPoint or a similar software.
- Indicatively, your presentation might be structured as follows:

Slide 1: Title; Names of author and ID number; Module Code and Name; Tutorial Slot (Day and Time); Tutor's Name;

Slide 2: Introduction (aim and structure of the presentation);

Slides 3-6: Research Findings (divided into sections as appropriate)

Slide 7: Conclusion and Critical Evaluation (summary of findings/ your opinion);

Slide 8: References (using an alphabetical referencing system, such as Westminster Harvard or a numerical referencing system, such as IEEE)

- Presentations in this module are **compulsory** and present a partial fulfilment for passing the module. All referred/deferred students need to be present at the scheduled presentation slot on 10<sup>th</sup> July. If any student does not attend their presentation, but they do submit presentation slides on BlackBoard by the deadline, the mark for this student will be capped to 30%. In case of valid Mitigating Circumstances, University regulations apply.

#### F. Further advice on how to prepare a presentation

- How to give oral presentations (discussion in tutorial 3) \_ \_  
<https://www.linkedin.com/learning/master-confident-presentations/welcome?u=42314660>

#### G. Further information on Referencing

The last page of your presentation should include your References, where the sources you consulted/referred to in your presentation are listed. You might use either an alphabetic referencing system such as the Westminster Harvard or a numerical referencing system such as the IEEE/Vancouver referencing system. Referencing systems will be discussed in the week 3 lecture and practiced in week 4 tutorials. Information on referencing can also be found in your course Handbook as well as at the Library self-help guide on 'How to reference your work', available at <https://libguides.westminster.ac.uk/referencing> and <https://libguides.westminster.ac.uk/referencing/examples>

#### H. The report

Each student will also need to prepare a short individual report, no longer than **1000 words**, on the same topic of your presentation, to summarise your findings in a report form. You cannot cut and paste your presentation. This is also an individual piece of work; no two reports can be identical. You might need to extend your research. You cannot use other students' work, nor can you paste verbatim extracts from your presentation.

Your report needs to be divided into **numbered** sections, starting with an introduction. The final two sections will be the Conclusion and the References section. You will be marked on your research and references as part of the report.

Indicative report structure:

Module: 4COSC003W Trends in Computer Science

Title

Author (name + ID number)

1. Introduction
2. [Main part, named depending on topic]
3. [Main part 2, named depending on topic]
4. [Main part 3, named depending on topic]
5. Conclusion

References

#### I. Marking scheme

The marking scheme for this course work can be found on pages 5-7 of this document.

**J. Avoid Academic Misconduct**

Please avoid committing an act of academic misconduct, such as Plagiarism. Before submitting your coursework, do consider the Academic Regulations section 10, which can be accessed in the Student Hub.

Your tutor and module leader will be able to advise you and support you on any questions you might have.

**4COSC008C Trends in Computer Science**  
**Academic Member of Staff marking this CW:**  
**Tutorial slot:**  
**Date of presentation: 05/09/23**

**CW1 Group presentation and report writing (weighting 40%)**

**Student Name:**  
**Student ID:**  
**Group:**  
**Student Course:**  
**Overall mark:** /100

**A. Presentation**

**Presentation title:**

<b>Marking Scheme</b>	<b>Marker's Comments</b>	<b>Mark</b>
<b>1. Structure and coherence</b> Does the presentation follow and appropriate structure? Is the information presented coherently?	4-5 marks: excellent structure of presentation 3-4 marks: satisfactory structure (e.g. attempt to introduce/conclude the topic, clear analysis) 0-2 marks: problematic structure (identify specific problems)	/5
<b>2. Content of presentation slides</b> How relevant is the content to the requirements of the task? How accurate is the information presented?		/30
2.a The slides were well presented (choice of background; use of pictures/animation; fonts)		/3
2.b Relevant information was presented	Full marks will be given to students who fully explored their topic in the time given.	/20
2.c The student used sound arguments		/3
2.d Arguments were supported with examples		/4

<b>3. Content of oral presentation</b>	<p>Students will achieve full marks if the information on each slide was accompanied by detailed and helpful additional information presented orally.</p> <p>Students will achieve only up to 8 marks if information in addition to information included in the slides was read out from notes.</p>	<b>/20</b>
<b>4. Presentation skills</b>		<b>/10</b>
4.a Time management	<p>Full marks will be given for students who kept well within their time limit.</p> <p>Presentations shorter than 4 minutes will achieve a max. 2 marks.</p>	<b>.. /5</b>
4.b Engaging with the audience	<p>Full marks will be allocated to students who engaged well with the audience; spoken clearly; kept eye contact.</p>	<b>/5</b>
		<b>Total mark: ...../65</b>

**Comments:**

--

## B. Report

Topic title:

Assessed by:

Student's ID	Student's Name	Student's Course	Mark

<b>5. Written report</b>		<b>/35</b>
a. Report structure		<b>/2</b>
b. Report content		<b>/10</b>
c. Academic English		<b>/3</b>
d. Research/References		<b>/20</b>
d.1 Research	Students will achieve half marks (7/15) for clear evidence of relevant research throughout the report, with references to relevant sources.  Students will receive full marks if, in addition, they used 7-10 different sources, of which 5 are book/research journal based, as listed in their 'References' section. They will receive 0 (zero) marks for each wiki (including Wikipedia), personal website or public press- based sources cited, which are intended for a wider audience.	/15
d.2 References	Have the students used the Harvard or the Vancouver reference system in a consistent and effective way?	/5
		<b>Total mark:</b> ...../35

Comments: