

University of Westminster
School of Computer Science and Engineering
4COSC003W Computer Science Practice
Weighting: 40%
Deadline: 30th March , 2020 to BB, before 5.00PM from SL time

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 work in a formal group on a specific task.
- To communicate with your group, evaluate the roles of the members of your group and resolve any problems that might arise.
- To research, devise and deliver a formal 10-12 min. oral group presentation, illustrated by PowerPoint slides or any other similar relevant software, to present your findings to your peers.
- To write a brief 1000 words individual report summarising your findings.

B. Learning Outcomes (LO)

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

This group coursework allows students to collect information from a variety of academic, authoritative and trustworthy sources to inform a choice of solutions to and/or an analysis of problems in familiar contexts. Students will have to produce a brief report, as per learning outcomes LO1 and LO6 below. They might also have to discuss a professional code of conduct and/or the social, ethical and legal implications of data storage and development practices (LO2). Presentations will have to be delivered to support the written work.(LO5.).

- 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 summarise the key components of a professional code of conduct and reflect on how the concepts it enshrines will affect your professional life;
- LO3 collect a set of requirements for a data storage and manipulation problem, and use these to produce a logical design for a relational database;
- LO4 work as a team to implement a design and produce a working database;
- LO5 produce a report detailing your work and present it as a group;
- LO6 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.
- 2.1.7 Knowledge and understanding of commercial and economic 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

- i. Autonomous, self-driven vehicles: How are they designed? What are the ethical and legal implications of their use?
- ii. User profiling and big data: How is it achieved? Is it ethical? Is it legal?
- iii. Should employers consider perspective members of staff social networking pages as part of their recruitment process? What are the legal and/or ethical issues associated with such practice? How can the individuals protect themselves?
- iv. Big Data Analytics and Natural Language Processing; How can they combine? For which purpose? Have you identified any particular method(s) used? Are there any ethical or legal implications?
- v. Intelligent Health Care Informatics: How does the analysis of big data can assist in improving the NHS patients' experience? For example, could we improve hospital beds' availability or could we shorten the patients' waiting time for a routine medical operation? In your presentation include at least two methods which allow us to achieve this.
- vi. How does Big Data analysis allow us to predict trends in financial markets? In your presentation include at least two methods which allow us to achieve this.
- vii. Data Mining and Social Media: how are our political opinions affected by the use of data mining by social networks? What are the ethical and/or legal implications?
- viii. Bitcoins: discuss the way cryptocurrencies operate and alternative applications where the blockchain can be used. Furthermore, present the regulatory challenges governments face in relation to anonymised transactions in the blockchain. What are the ethical or legal issues involved?
- ix. Distributer denial of service/BotNet attacks: how can they be avoided? How can they help us learn lessons for better data protection? Does the Internet of Things pose new threats to our private data?
- x. Why do supermarkets use loyalty cards? How do they use the data they collect to improve sales? What are the ethical or legal issues involved?

Let your tutor know which topic your group have chosen during the week 3 tutorial No two groups in the same tutorial slot can choose the same topic, unless ALL topics are already to be presented in the same slot. Topics will be allocated on a first-come, first-served basis. Your tutor will publish all chosen topics on BB on week 4.

E. Working within a group

- Groups will normally consist of 4 students. In exceptional circumstances tutors might advise to form a group of 3-5 students.
- Students who are absent in the week 3 tutorial will be allocated into a group by their tutor. Group information will be published on Blackboard on week 4, including the topic and **the date** each group is to present. Please try not to request to change group after week 4, so that you can start working on the course work as early as possible. Remember that group work provides a good opportunity to make new friends and establish a regular learning group.
- Each group has to choose a topic; research their chosen topic; plan the presentation; design a visual presentation; and present orally your research.
- Please ensure that during the week 3 tutorial you discuss with your team members how you will communicate (BB group/Google docs/email/text might be some of the options you want to consider. Absent members of the group, if any, will have to be contacted during or immediately after the session. Your group needs to communicate and meet regularly i.e. both during this module's tutorials, but also outside classroom where appropriate. One of you might want to take leadership responsibility, including responsibility to communicate with all group members; for example, to communicate previous meetings' decisions to all members of a group, as well as the date and time of your next meeting via email or text, as appropriate.

- Do make sure that work is divided equally across members of the group, and that you keep minutes (notes) of each weekly meeting, agreed by all members of your group. Your notes need to include all agreed actions (for example, what is each member of the group responsible to complete within that particular week). Please always agree the day, time and location of the following meeting at the end of a meeting. Record attendance, actions achieved and decisions made. You need to keep notes of each meeting safe and available if needed.
- In the unlikely event that a particular member of a group are not 'pulling their weight', please contact your tutor at your earliest convenience and provide them with signed copies of the group meetings' minutes. It is your tutor's responsibility to contact the group member in question and/or the module leader where matters cannot be immediately resolved.
- The group presentations in this module are **compulsory** and present a partial fulfilment for passing the module. All members of a particular group need to be present at the scheduled presentation tutorial slot. If any team member does not attend their presentation, the mark for this student will be capped to 30%. In case of valid Mitigating Circumstances the module team will make alternative arrangements for the presentation for the affected student, as per the University regulations. □ Further advice on how to prepare a presentation will be provided during tutorials.

F. The Presentation

For this CW you need to prepare approx. a 10 slides' presentation using an appropriate software, which will last up to 12 minutes. For a group consisting of 4 students, each student is expected to speak or approx. 3 minutes. Good time-keeping is essential for a good result.

Indicatively, your presentation might be structured as follows:

Slide 1: Title; Names of authors and ID numbers; 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 subtopics as appropriate)

Slide 7: Ethical Implications

Slide 8: Legal Implications

Slide 9: Conclusion and Critical Evaluation (summary of findings/ your opinion); Slide

10: References (using an alphabetical or a numerical system)

Ensure that you have considered **10+ different academic sources** in order to prepare your presentation. You need to **refer** to your sources in your presentation.

Ideally, a minimum of 5 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.

One or two questions from the audience might follow your presentation.

G. Further advice on how to prepare a presentation □

Group and team work:

<https://www.linkedin.com/learning/teamwork-foundations/welcome?u=42314660>

- How to give oral presentations <https://www.linkedin.com/learning/public-speaking-foundations2012/welcome?u=42314660>

H. 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 Westminister 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://universityofwestminster.sharepoint.com/sites/Resources/Shared%20Documents/Referencing%20Your%20Work.pdf#search=Referencing%20Guide>

I. The report

Following your group presentation, **each student** will need to prepare a short individual report, no longer than 1000 words, on the same topic of your presentation, to summarise your findings. This is an individual piece of work; no two reports can be identical. You might need to extend your research at this point, in order to present a full summary of your topic. 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.

J. Marking scheme

The marking scheme for this course work can be found on pages 5-6 of this document.

K. Avoid Academic Misconduct

Please avoid committing an act of academic misconduct, such as Plagiarism. Before submitting your coursework, do consider the Academic Regulations sections 10.34-10.39, p.40, which can be accessed at

https://www.westminster.ac.uk/sites/default/publicfiles/general-documents/academic-regulations-section-10-academic-misconduct_0.pdf

4COSC003W Computer Science

Practice

Module Leader: Dr Maria Chondrogianni **Academic**

Member of Staff marking this CW:

Tutorial slot:

Date of presentation:

CW1 Group presentation and report writing (weighting 40%)

Student Name:

Student ID:

Student Course:

Overall mark:

/100

Group members:

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

A. Presentation

- Group members are expected to receive identical results, unless the group meetings' notes and the students' performance on the presentation day indicate that workload was not equally shared among the members of the group and/or that presentation skills differ dramatically among members of a group. Students might also achieve different results under 4 (presentation skills).

Slides submitted to the tutor (please tick):

Presentation title:

Marking Scheme	Marker's Comments	Mark
1. Organisation of material	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
2. Content of presentation slides		/30
2.a The slides were well presented (choice of background; use of pictures/animation; fonts)		/3
2.b The slides provided relevant information	Full marks will be given for groups who fully explored their topic in the time given.	/20
2.c The students used sound arguments		/3
2.d Arguments were supported with examples		/4
3. Content of oral presentation	Students will achieve full marks if the information on each slide was accompanied by detailed and helpful additional information presented orally.	/15
	Students will achieve only up to 8 marks if information in addition to information included in the slides was read out from notes.	
4. Presentation skills		/ 15

4.a Timing	Full marks will be given for students who kept well within their time limit. Presentations shorter than 10 minutes will achieve a max. 2 marks (unless students presented on their own for exceptional reasons).	.. /5
4.b Engaging with the audience	Full marks will be allocated to students who engaged well with the audience; spoken clearly; kept eye contact.	/5
4.c Answering questions with confidence		/5
		Total mark:/65

Comments:

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B. Individual Report

Topic title:

Assessed by:

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

5. Written report		/35
a. Report structure		/2
b. Report content		/10
c. Academic English		/3
d. Research/References		

d.1 Research	<p>Students will achieve half marks (7/15) for clear evidence of relevant research throughout the report, with references to relevant sources.</p> <p>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 magazine based sources cited, which are intended for a wider audience.</p>	/15
d.2 References	Have the students used the Harvard or the Vancouver reference system in a consistent and effective way?	/5
		Total mark:/35

Comments: