COMP1680 (2019/20)	**Clouds, Grids and Virtualisation**	**Faculty Header ID:** 243494	**Contribution: 40% of course**
Course Leader: Dr Catherine Tonry	**Essay Coursework**		**Deadline Date: Friday 29/11/2019**
This coursework should take an average student who is up-to-date with tutorial work approximately 20 hours Feedback and grades are normally made available within 15 working days of the coursework deadline			
Learning Outcomes: Characterise and critically evaluate high performance computing based architectures and their suitability for given applications. Implement and execute applications using shared and distributed memory programming paradigms. Describe and critically discuss the roles and applications of cloud and grid computing.			

Plagiarism is presenting somebody else's work as your own. It includes: copying information directly from the Web or books without referencing the material; submitting joint coursework as an individual effort; copying another student's coursework; stealing coursework from another student and submitting it as your own work. Suspected plagiarism will be investigated and if found to have occurred will be dealt with according to the procedures set down by the University. Please see your student handbook for further details of what is / isn't plagiarism.

All material copied or amended from any source (e.g. internet, books) must be referenced correctly according to the reference style you are using.

Your work will be submitted for plagiarism checking. Any attempt to bypass our plagiarism detection systems will be treated as a severe Assessment Offence.

Coursework Submission Requirements

• An electronic copy of your work for this coursework must be fully uploaded by 23:55 on the Deadline Date of **Friday 29/11/2019** using the link on the coursework Moodle page for COMP1680.

• For this coursework you must submit a single PDF document. In general, any text in the document must not be an image (i.e. must not be scanned) and would normally be generated from other documents (e.g. MS Office using "Save As .. PDF"). An exception to this is hand written mathematical notation, but when scanning do ensure the file size is not excessive.

• There are limits on the file size (see the relevant course Moodle page).

• Make sure that any files you upload are virus-free and not protected by a password or corrupted otherwise they will be treated as null submissions.

• Your work will not be printed in colour. Please ensure that any pages with colour are acceptable when printed in Black and White.

• You must NOT submit a paper copy of this coursework.

• All courseworks must be submitted as above. Under no circumstances can they be accepted by academic staff

The University website has details of the current Coursework Regulations, including details of penalties for late submission, procedures for Extenuating Circumstances, and penalties for Assessment Offences. See http://www2.gre.ac.uk/current-students/regs

Detailed Specification

This coursework is to be completed individually.

Conduct a literature review and research on the following area::
Cloud computing platforms for Big Data Analytics

The research should include the following sections:

• Introduction: Give an overview of the topic and describe the "big picture"
• Body of the paper: Describe the results of your research by presenting their respective characteristics, their application areas and by conducting a critical comparison among them
• Conclusion and future directions: Summarise your findings and identify areas of future research that are promising
• References: A list of references that support your analysis. These can include, among others, journal publications, conference publications, books and web sites.

Deliverables:

• Produce in your own words a well-structured paper (2500 - 3000 words). Do not cut and paste sections from the Internet, as this will receive zero marks. Though proper usage of quotes will not be penalised.

Assessment Criteria:

Your paper should consist of four general sections with apriximately the following weighting:

• Introduction	20%
• The body of the paper	40%
• Conclusion and future directions	20%
• References	20%

Grading Criteria

To achieve a pass mark it is expected that an outline solution will be provided in which at least a basic attempt is evident with some progress.
To achieve a mark in the merit range it is expected that a good solution is provided in which there is clear evidence of progress and understanding.

To achieve a distinction mark it is expected that high quality solutions and reports are provided in which there is clear evidence of competence in practical, theoretical and presentation skills.

Marks will be distributed as follows:	
0-49	A substandard submission that contains little understanding of the subject and no critical appraisal.
50-59	A submission that demonstrates a reasonable understanding of cloud computing and big data. Please note that 50% is the pass mark for level 7 courses
60-69	A good submission that includes a good understanding of the cloud computing and its uses in big data
70+	A very good submission that clearly demonstrates a very good understanding and the comparison between different techniques.
80+	An excellent submission that demonstrates a clear understanding of cloud computing and big data. Clear evidence of critical research and good presentation.

If you are unsure about any of these instructions then please email your tutor or make an appointment to see your tutor as soon as possible.