 Faculty of Engineering and Technology

# Coursework Title: Dissertation

**Module Name:** Research Methods

**Module Code:** 7602UPGRAD

**Level:** 7

**Credit Rating:** 60

**Weighting:** 100%

**Maximum mark available:** 100

**Lecturer:** upgrad member

**Contact:** If you have any issues with this coursework you may contact your lecturer. Contact details are:

Email:

Room:

**Link Tutor:** Prof. Dhiya Al-Jumeily

**Contact:** If you have any issues with this coursework you may contact your link tutor. Contact details are:

Room: 6.30, James Parsons Building, 3 Byrom St, Liverpool L3 3AF

**Link Tutor:** Dr. Manoj Jayabalan

**Contact:** If you have any issues with this coursework you may contact your link tutor. Contact details are:

Room: 6.7c, James Parsons Building, 3 Byrom St, Liverpool L3 3AF

**Hand-out Date:** 02/10/2019

**Hand-in Date:** 09/12/2019

**Hand-in Method:** Canvas Assignment Handler

**Feedback Date:** 23/12/2019

**Feedback Method:** Canvas, written feedback

**Programmes:** MSc in Machine Learning & Artificial Intelligence

## Introduction

A project is defined by the student in consultation with the project supervisor. The nature of the project will be a substantial investigation, analysis of a problem domain, creation of software, or development of systems.

For this coursework you are asked to plan, execute and report in depth on a major research investigation related to machine learning and/or AI.

You should analyse several recent research papers (from different types of source; Journal, Conference, Book, Internet, etc.) on closely related to Machine Learning and AI. You can base your project dissertation on the future directions discussed in one or more of the papers that you have found.

**Learning Outcome to be assessed**

From the module proforma:

1. Synthesize skills and techniques taught in the programme, this then should be used to research the area related to data science topics in which the investigation takes place using independent study.
2. Discuss and critically evaluate a selected area of research within the domain of data science, and implement a reliable solution using their previous experience and skills gained during the programme and identify relevant Legal, Social, Ethical and Professional Issues associated with the project.
3. Structure and write a major dissertation.
4. Apply the conventions of academic research dissemination to personal research.

**Detail of the task**

**Part One – Interim Report**

The Interim report should describe the state of your thesis for the period that covers the start of your thesis phase until now, which is approximately halfway through your Thesis phase. This is a crucial checkpoint in your journey as it allows you to assess your progress and collate it in a report format.

An Interim Report, in general, is expected to have the following points present:

1. Title
2. Abstract
3. List of Tables
4. List of Figures
5. List of Abbreviations (If any)
6. Introduction
7. Aim and objectives
8. Literature Review
9. Methodology : identify and justify your approach
10. References

**What you should hand in**

This coursework should be submitted on LJMU platform / Canvas through the Assignment Handling Tool in the assignments folder of this module. No other submission method will be accepted.

There is no required length for the report, although a report of 6000 to 8000 words should be adequate.

**Marking Scheme/Assessment Criteria**

|  |  |
| --- | --- |
| **Assessment Criteria** | **% weighting for each problem part** |
| General Structure, Formatting, and Layout | 10 |
| Grammar and Spelling, Writing Style | 10 |
| Introduction | 15 |
| Literature review | 20 |
| Methodology | 20 |
| Focus and clarity of argument | 15 |
| Citation & references | 10 |
| **Total Marks** | **100%** |

**Recommended reading**

Module materials (Lecture notes, textbook references, Journals, Conference papers, and additional material on UpGrad platform and Canvas)

**Extenuating Circumstances**

If something serious happens that means that you will not be able to complete this assignment, you need to contact the module leader as soon as possible. There are a number of things that can be done to help, such as extensions, waivers and alternative assessments, but we can only arrange this if you tell us. To ensure that the system is not abused, you will need to provide some evidence of the problem.

More guidance is available at <https://www.ljmu.ac.uk/about-us/public-information/student-regulations/guidance-policy-and-process>

**Any coursework submitted late without the prior agreement of the module leader will receive 0 marks.**

**Academic Misconduct**

The University defines Academic Misconduct as ‘any case of deliberate, premeditated cheating, collusion, plagiarism or falsification of information, in an attempt to deceive and gain an unfair advantage in assessment’. This includes attempting to gain marks as part of a team without making a contribution. The Faculty takes Academic Misconduct very seriously and any suspected cases will be investigated through the University’s standard policy (<https://www.ljmu.ac.uk/about-us/public-information/student-regulations/appeals-and-complaints)>. If you are found guilty, you may be expelled from the University with no award.

**It is your responsibility to ensure that you understand what constitutes Academic Misconduct and to ensure that you do not break the rules. If you are unclear about what is required, please ask.**

**For more information you are directed to following the University web pages:**

* Information regarding ***academic misconduct***: <https://www.ljmu.ac.uk/about-us/public-information/student-regulations/appeals-and-complaints>
* Information on ***study skills***: <https://www2.ljmu.ac.uk/studysupport/>
* Information regarding ***referencing***: <https://www2.ljmu.ac.uk/studysupport/69049.htm>