



# **School of Engineering and Computing Sciences**

## **Dissertation Guidelines**

**for**

**MSc in Computer System Engineering**

**F**

**Y**

**P**

*“The person who makes a success of living is the one who see his goal steadily and aims for it unswervingly. That is dedication.” – Bob Dylan*

Module Code : EG7011

Module Name : Masters Dissertation

Module Leader : Mr. Joshua Samual  
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Module Collaborator Ms. Sarmiladewi Balaguru  
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## 1. Overview

The Masters dissertation constitutes a very significant part of the study for Master's Degree program. It is a component of all the programs, which is to be completed in the final stage of each student's postgraduate.

The dissertation is a module that provides the students with the opportunity to design undertake and conduct an independent piece of research or study related to their program of studies under the guidance of a supervisor, who is normally a member of the academic staff.

The dissertation carries 60 credits and will normally last for one semester. A dissertation report should be submitted as part as of the module and this should be complemented with a dissertation presentation and software or product demonstration. The following sections consist of a report structure and guidance on how to write a good report for Masters dissertation and to ensure that essential parts are not omitted.

## 2. Introduction to Masters Dissertation

The Masters dissertation allows students to engage in a substantial piece of individual research of a selected topic within the subject area that is appropriate to their course. The selected topic will be assessed for suitability to ensure sufficient academic challenge and satisfactory supervision by an academic staff.

The chosen topic will require you to:

- Identify/formulate problems and issues
- Develop a proposal
- Conduct literature reviews
- Evaluate information from general to specific levels
- Investigate and adopt suitable research methodologies
- Determine solutions by developing a system
- Implement the system and critically appraise and present findings
- Conduct system testing
- Identify the future scope and make enhancement.

### **3. What Makes a good research**

Every piece of research work should contribute to society which means a student must do research by understanding the society's needs. It starts with a broad topic which is narrowed down to a particular area then proceeded with a systematic study of the literature; identify the research problem, framing the objectives and research questions. Students must propose innovative methods to solve the problem leading to effective and suitable solutions eventually. The solution should fulfil all the objectives and contribute to society.

### **4. Aim of the module**

To enable students to undertake a sizeable piece of individual academic work in an area of their own interest relevant to, and demonstrating technical skills acquired in, their programme of study. Students will normally need to research one or more academic topic related areas and then apply their findings to the construction of a computer-based system. Students should take into account ethical, legal, social, and professional issues in the construction of the system.

The dissertation requires appropriate research, analysis, design, implementation, quality assurance, and evaluation and dissertation management.

### **5. Main topics of study**

Students cover the following topics by applying knowledge and proper level of understanding to their chosen project:

- Identification of a suitable dissertation topic
- Research methods
- Literature surveys, searches and reviews
- Plagiarism and referencing
- Dissertation planning, monitoring, risk assessment and control
- Effectively engaging with academic research
- Academic writing and presentation skills
- The development, to a professional standard, of a large, non-trivial computer-based system or the critical evaluation of a recent development in the field of computing

- The documentation, to a professional standard, of a significant, problem-focused computing task including the study of the application domain, a detailed analysis of the problem and a solution to the problem.

## 6. Learning Outcomes for the module

At the end of this module, students should be able to:

### *Knowledge*

- Identify and apply appropriate theoretical framework to the chosen topic
- Demonstrate detailed knowledge of one chosen and highly specific area within the domain of their programme of study and communicate this knowledge through both a written report and an oral assessment.
- Demonstrate knowledge of research methods appropriate for Masters level research and to communicate this knowledge through both a written report and an oral assessment

### *Thinking skills*

- Implement a piece of advanced research as formulated in the project proposal
- Competently choose appropriate research methods and tools for data collection and analysis
- Critically interpret the results in relation to existing knowledge
- Demonstrate critical self-reflection on the research process and suggest further developments

### *Subject-based practical skills*

- Conduct an advanced search of literature and/or other appropriate sources

### *Skills for life and work (general skills)*

- Prepare a major piece of work written in a scholarly fashion according to set guidelines
- Demonstrate the confidence and skills to manage research in a way that is consistent with both professional practice and the normal principles of research ethics.
- Plan the production of an extended piece of work to meet a fixed delivery deadline.

## 7. Strategies used to enable the achievement of learning outcomes:

Module Leader will provide an overview of the dissertation, its requirements and organisation and an introduction to research methods, literature surveys and referencing. In addition, every student will be allocated a supervisor at an early stage of the module. The supervisor will support the student for the duration of the project. Project supervision will be supplemented by

- i) Meetings with the supervisor who will help students develop their research skills

- ii) Participation in project structured walkthroughs the purpose of which is to support students during the implementation stage of their project. Feedback, in the form of formative assessment, will be provided supervisors on a regular basis. Feedback will be provided throughout the module in the form of both formative and summative work.

## **8. Point to consider in dissertation**

While doing a dissertation, you have to produce the following:

- Abstract
- A description of the problem area that is relevant to the latest technology or current issues with evidence.
- Justification for tools and techniques used
- Analysis of the problem area including supporting diagrams, figures and a clear specification of the data and information needs
- An extensive literature review
- Identification and application of appropriate research methodologies
- Critical reflection on the legal, ethical and social considerations of your research
- A full critical evaluation.
- Implementation of the system.
- Analysis, Evaluation and Conclusion
- A detailed table of references and bibliography, mostly consisting of material within the last five (5) years period.
- A timetable which should take into account sectional deliverables for the entire research project

## **9. Allocation of the supervisor**

Every registered student for the dissertation will be allocated a supervisor. The allocation of the supervisor is done completely by the module leader along with the committee members after the proposal defending.

## **10. Duties of the student:**

- It is the duty of student to meet their supervisors on a regular basis without fail.
- During every meeting with the supervisor the student has to get the signature and the remarks from the supervisor on the supervision form (Appendix 2).
- Once the supervisors are allocated, the students are not allowed to change the supervisor. Any concern should be brought under the knowledge of the module leader.
- Students have to work with the supervisor and with accordance to the guidance given by the supervisor.

## **11. Duties of the supervisor:**

- They have to assist the student with the selection and planning of a suitable and manageable research topic.
- Accessible to the student for consultation and discussion of the student's academic progress and research during stipulated consulting appointment.
- Responds in a timely and thorough manner to written work submitted by the student, with constructive suggestions for improvement and continuation.
- Make arrangements to ensure continuity of supervision when the supervisor will be absent for extended periods, e.g. a month or longer.
- Encourages the student to make presentations of research results within the University and to outside scholarly or professional bodies as appropriate.
- Assists the student to compile with any changes that need to be made to the thesis after the dissertation defence.

## 12. Dissertation title

Students doing MSc in Computer System Engineering can select any one of the research area from the following list for their research and should identify a suitable topic of their interest. Students must bear in mind that the area they select must contribute to the current need of the society.

- Algorithms
- Artificial Intelligence
- Automated Software Engineering
- Adaptive Systems
- Bio-informatics Software Engineering
- Biometrics
- Communication System and Networks
- Computer Graphics
- Virtual Reality & Augmented Reality
- Data Mining
- Web Mining
- Text Mining
- Information Retrieval
- Security(Computer, Network & Information)
- Cryptography
- Internet of Things
- Cloud Computing
- Big Data
- Image Processing
- Mobile Technology
- Wireless Sensor Network
- Wireless Communication
- Database Systems
- Natural Language processing
- Neural Network
- Pattern Recognition
- Software Applications
- High Performance Computing
- Internet and Web Technology
- Human Computer Interaction
- Information System Engineering
- Business Intelligence
- Knowledge Management
- Green Computing & Sustainability
- Fog Computing

### **13. Requirements for the dissertation:**

According to University of East London it is mandatory that the students should have achieved 90 credits to register for the module. That means the students should have passed at least 3 taught modules out of 4 taught modules where each taught module contains 30 credits.

### **14. Module credit:**

Masters dissertation is a double credited module with 60 credits.

### **15. Submission of document :**

At the end of the semester the student has to submit the document in Turnitin and also in the form of hard bind copy (Dark blue colour). The Turnitin account will be created by the respective supervisor. The student has to keep in mind that the total word count for the MSc in Computer System Engineering should not exceed 12,500 words. The final dissertation document should be prepared based upon the format given in point 18.

### **16. Presentation:**

Presentation is the stage where the students will present their research work and show a demonstration of the product. This will be conducted at the end of the semester in which the dissertation is undertaken. Each student will be given 20 min for the presentation. The date and venue for the presentation will be decided by committee members from the School of Engineering and Computing Science and will be informed to the students having upon been finalized. Students have to prepare the presentation slides based upon the format given in appendix 7.

### **17. Dissertation workshop:**

Dissertation workshop is conducted for the Masters students who are going to undertake the dissertation. The main aim of this workshop is to impart the knowledge and provide training to the entire MSc CSE & MSc BIS student about how to do a research and the steps they have to follow while doing a research. The workshop will be conducted for one full day in the semester ahead before the dissertation. Once the workshop is completed the students has to identify the topics for their research and has to start with the literature review. The workshop will contain the following topics:

- Dissertation Briefing
- Research Proposal
- Literature Review
- Referencing & Citation (Harvard Referencing style)
- Research Methodology
- Result Evaluation
- Critical Analysis
- Technical Document

### **18. Proposal defending:**

The students have to present their proposal on the day of proposal defending and have to submit a report on the proposal not more than 1500 words. The dissertation proposal of the students will be assessed by the panel members before they proceed with their research work. The outcome of the proposal defending will be announced by the module leader in three ways:

1. **Defended:** Which means the proposal of the student is accepted and can proceed further.
2. **Defended with amendment:** Which means the proposal is accepted with minor changes.
3. **Not Defended:** Which means the proposal is completely rejected. In this case the students have to come up with a new proposal.

The dissertation proposal must contain the following

- A brief introduction about the topic
- Literature Review
- Aim
- Research Problem
- Research Objectives
- Research Questions
- Research Scope
- Methodology
- Proposed Solution
- Gantt Chart

## 19. Assessment

The assessment for this module will be based upon the written report providing evidence of theoretical understanding and demonstrating practical work (including relevant information), which will be assessed both orally (15 Minutes) and via text report by two markers (max. 12500 words). In accordance with the framework, students MUST obtain a minimum of 50% overall in order to pass this module.

The dissertation element (including oral assessment) is worth 100% for this module and consists of one individual piece of work.

## 20. Dissertation report

Your dissertation must be written in English in typescript form on **A4 size paper**. One hard bounded (Dark Blue color) copy of the dissertation should be submitted. It is advisable to retain a copy for your own records. Please note that the submitted dissertation will only be returned in cases of failure.

When you submit the copy of your project you will be asked to submit in both the form as soft copy stored in CD and hard bound document of your working papers which have formed the basis of your work; for example, copies of articles, working notes and summaries, completed questionnaires and tapes or notes of interviews. These may provide the basis for a viva voce should that be necessary.

The cover sheet of the dissertation must include the following declaration: **'I declare that the above work is my own and that the material contained herein has not been substantially used in any other submission for an academic award'**.

The dissertation must be prefaced by an abstract. This is not an introduction but a summary which outlines the plan and argument of the research project. It should include brief details of the methodology used which include the outcome. The abstract should not be longer than 300 words. It should be included after the title page and it will be considered as part of the dissertation.

A table of contents, such as the glossary, chapters, and appendices - with page references - should be included at the front of the dissertation.

Pages should be numbered and double-line spacing used.

Diagrams, figures, tables, and illustrations should be incorporated into the text at the appropriate place, unless there is a series of them or they are continually referred to throughout the text. In this case they should be placed in appendices at the end of the report. You are advised to use drawing softwares for diagrams and scan in other illustrations.

The work of other authorities must be acknowledged. When quotations or general references are made they must be suitably referenced by using the Harvard system.

Appendices should not contain material which is not used or referred to in the text. Similarly, illustrative material should not be included unless it is relevant, informative, and referred to in the text.

A bibliography should be included at the end of the dissertation and should list, alphabetically, all the sources (including magazines and newspapers) that you have consulted. Books should be listed as: Author (surname then initials); title, edition, publisher, date. Other sources such as journals, magazines, and newspapers should be treated in a similar fashion.

### **Table of contents**

An outline of the whole dissertation is listed, setting out the order of the sections, with page numbers. It is conventional to number the preliminary pages (abstract, table of contents) with lower case Roman numerals (i.e. (i), (ii), (iii) etc.) and the main text pages (starting with the first chapter) in Arabic numerals (1, 2, 3, etc.) as shown below.

<b>Contents</b>	<b>Page</b>
List of Tables	i
List of Figures	ii
List of Abbreviations	iii
Acknowledgements	iv
Abstract	v

## **Chapter 1: Introduction**

This section gives the introduction of your research Dissertation. It should contain:

- 1.1 Background Studies
- 1.2 Aim
- 1.3 Research Motivation
- 1.4 Research Problems
- 1.5 Research Objectives
- 1.6 Research Questions
- 1.7 Research Scope

## **Chapter 2: Literature Review**

In this section students need to discuss thoroughly on literature related to the area or topics selected. In this section you should show where in current literature the problem was first recognized as well as what serves as the foundation for your research proposal or final report. The more references you can find that relate to the given problem statement, the more credibility it will have. This will give the reader an idea whether you have done your “homework” and know enough about the topic to start with the research project.

Guidelines for this chapter are as follows:

- What are the past literatures in your selected topic/area?
- Is there any related and suitable theory with your selected topic/area?
- How the literatures/theories help you in determining problem statement and ideas
- Why your selected topic/area important to do the research/system

## **Chapter 3: Methodology**

Describe methods used along the research or Dissertation activities. In other words, describe the flow of research activities from the beginning till the end and we need to thoroughly explain the involved steps in the activities. The research methodology chapter should include the following:

1. Introduction
2. Data Collection Methods
3. Data Analysis Methods
4. Software Development Methods

#### **Chapter 4: Design**

The Design section documents the designs that have been taken. The structures of the system and its components have to be established.

The design should also consist of the following:

- Architecture Design – Interaction between components and/or modules
- Interface Design
- System Modelling – UML diagrams
- Database Design – ERD diagram
- Story Board

#### **Chapter 5: Implementation**

In this section the student has to explain the proposed work in detail such as:

- The method used
- The proposed architecture diagram
- The proposed algorithm
- How they have solved the problem
- System Screenshots

#### **Chapter 6: Results Analysis**

The result analysis section contains the result obtain from their experiment. These result have to analyse and compare it with the existing work. The data have to be collected from the experiment for the analysis.

#### **Chapter 7: Testing**

In this phase the students have to test the system for the accuracy. This is also called system testing.

#### **Chapter 8: Conclusion & Future Work**

This is the final section where you will conclude the work. While writing this section you have to touch all the chapters. Finally you have to comment on any future enhancement which can be done in the work.

#### **References**

It contains the list of references in Harvard referencing style.

#### **Appendix**

The appendix will contain sample questionnaires and attendance log.

## List of tables and figures

You can present a list of the tables and figures you have included at the beginning of your project report.

A table is a presentation of data in tabulated form; a figure is a diagrammatic representation of data or other material. Tables and figures should be clearly and consistently numbered, either above or below the table or figure. Each table and figure should have a separate heading (caption). The reader should be able to understand what the table or figure is about from this heading / caption without referring to the text for explanations. The numbers of tables and figures you have used in the text should correspond with the lists at the beginning.

**Main body of document, appropriately structured** (*this structure may vary depending on the nature of your dissertation.*)

## Bibliography / References

**Appendices** (*these should only contain material which is genuinely supportive of the argument in the main body of the dissertation.*)

## Supervisor Contact Log (completed)

## Report Format

Font Style	Times New Roman
Font Size	Main Heading : 16 Sub Heading : 14 Content : 12 Line spacing : 1.5 Paragraph spacing : Double

## 21. Referencing style

Students must follow the Harvard Referencing style.

The referencing system outlined can be found in the following website: <http://www.library.dmu.ac.uk/Images/Selfstudy/Harvard.pdf>

### 1. Example of Harvard referencing

Carter persisted with the 'responsible' import based recovery programme, hoping that the Germans and Japanese would ultimately follow their example. As a consequence of this policy the US trade deficit increased from \$9.5 billion in 1976 to \$31.1 billion in 1977 (Stein 1998, p159).

2. (Stein 1998, p159) would appear after a direct quotation, or as in this case, the presentation of an idea. Direct quotes of more than 30 words or so should be indented on either side.

### 3. Example:

*In my view, and notwithstanding some of the really important theoretical insights and results that the concept has generated, there are problems in trying to apply the concept of utility that have not had the attention they deserve. However, economists are now beginning to take more interest in the extent to which psychological evidence can inform the development of economic models.*

(Anand, 2006, p223)

All books etc. you have cited in the text are listed in a reference list at the end of the dissertation in alphabetical order: author, initials, date, title, place of publication, publisher. Stein would thus appear as:

4. Stein, J (1998) *The Locomotive Loses Power: The Trade and Industrial Policies of Jimmy Carter*; in Fink, G & Graham, HD (eds) *The Carter Presidency: Policy Choices in the Post New-Deal Era*, Lawrence, Kansas: University Press of Kansas.

Note that this is a chapter in a publication edited by someone else. The full volume also needs to be cited thus:

5. Fink, G & Graham, HD (1998) *The Carter Presidency: Policy Choices in the Post New-Deal Era*, Lawrence, Kansas: University Press of Kansas.

Note the use of italics in these two examples. It is always the title of the book that is italicised.

All books etc. you have cited in the text are listed in a bibliography at the end of the dissertation in alphabetical order: author, initials, title, publisher, date. Mansfield would appear as:

6. Mansfield, E.; *Microeconomics: Theory & Applications*, Norton and Company, 1995

If there is more than one book, journal article etc. by the same author your references will normally be distinguished by the year of publication. If the author has published more than one work in the same year, show them as 1992a, 1992b etc.

Ensure that your document is spell-checked and pay particular attention to grammatical and punctuation errors.

## **22. Plagiarism**

Plagiarism is when you present someone else's work, words, images, ideas, opinions or discoveries, whether published or not, as your own. It is also when you take the artwork, images or computer-generated work of others, without properly acknowledging where this is from or you do this without their permission. Plagiarism is considered to be one of the greatest offences in the academic code of conduct. If any student is found plagiarized then that student will be penalized for the act. It can lead to student detention in project. Keeping this point in the mind the students have to do their work. Proper In-Text-Citation and References should be given in the document if those materials were taken from others work.

Examples of plagiarism include:

- Directly copying from written work, physical work, performances, recorded work or images, without saying where this is from;
- Using information from the internet or electronic media (such as DVDs and CDs) which belongs to someone else, and presenting it as your own;
- Rewording someone else's work, without referencing them; and
- Handing in something for assessment which has been produced by another student or person.

## Appendix 1 EG7011 Module Guide

<b>Module Title:</b> Research Dissertation	<b>Module Code:</b> <b>EG7011</b>  <b>Level: M</b> <b>Credit: 60</b> <b>ECTS credit:</b>	<b>Module Leader:</b> Joshua Samual
<b>Pre-requisite:</b> None	<b>Pre-cursor:</b> None	
<b>Co-requisite:</b> None	<b>Excluded combinations :</b> None	
<b>Is this module part of the Skills Curriculum?</b> No	<b>University-wide option:</b> No	
<b>Location of delivery:</b> UEL		
<b>Main aim(s) of the module:</b>		
<p>The module aims to provide students with an opportunity to:</p> <ul style="list-style-type: none"> <li>demonstrate their ability to explore a research topic in depth, with appropriate research methodology, displaying creativity and analytical skills</li> <li>time manage the completion of the research investigation, and the submission of a research dissertation</li> <li>defend the contents of the research dissertation orally,</li> </ul>		
<b>Main topics of study:</b>		
<p>The student will select a research topic in consultation with the appropriate subject specialist supervisor.</p> <p>A project proposal with a time management plan will be developed in liaison with the project supervisor and submitted for project registration. On successful registration, student will have access to the MSc research project module website</p> <p>Students are expected to utilise the knowledge and skills developed in the taught modules of the MSc programme to carry out their research project.</p> <p>Lectures to develop communication and research methodology skills will be given in the Research Method classes</p>		

## Learning Outcomes for the module

At the end of this module, students will be able to:

### *Knowledge*

1. Identify and apply appropriate theoretical framework to the chosen topic
2. Demonstrate detailed knowledge of one chosen and highly specific area within the domain of their programme of study and communicate this knowledge through both a written report and an oral assessment.
3. Demonstrate knowledge of research methods appropriate for Masters level research and to communicate this knowledge through both a written report and an oral assessment

### *Thinking skills*

4. Implement a piece of advanced research as formulated in the project proposal
5. Competently choose appropriate research methods and tools for data collection and analysis
6. Critically interpret the results in relation to existing knowledge
7. Demonstrate critical self-reflection on the research process and suggest further developments

### *Subject-based practical skills*

8. Conduct an advanced search of literature and/or other appropriate sources

### *Skills for life and work (general skills)*

9. Prepare a major piece of work written in a scholarly fashion according to set guidelines
10. Demonstrate the confidence and skills to manage research in a way that is consistent with both professional practice and the normal principles of research ethics.
11. Plan the production of an extended piece of work to meet a fixed delivery deadline.

## Teaching/ learning methods/strategies used to enable the achievement of learning outcomes:

Lectures to develop research method and communication skills.

Online continuous learning .

Independent study complimented by supervisor – student meetings.

### Assessment methods which enable students to demonstrate the learning outcomes for the module:

Written Submission (12,500 words)

Oral Defence of thesis (15 minutes)

### Weighting:

100%

### Learning Outcomes demonstrated

1 – 11

## Reading and resources for the module:

### Core

UEL Moodle for EG7011 Module

UEL Moodle: Academic Integrity - Resources for Students → (*in particular: Academic Integrity Policy, Cite Them Right, Turnitin resources*).

Bell, J. (2010) *Doing your research project*. 5<sup>th</sup> edn. Buckingham: Open University Press.

Hart, C. (1998) *Doing a literature review: Releasing the social science research imagination*. London: Sage Publications.

O’Leary, Z. (2017) *The essential guide to doing your research project*. 3rd edn. Sage Publications Ltd.

Swetnam, D. (2000) *Writing your dissertation*. 3<sup>rd</sup> edn. Oxford: How to Books. Pears, R. and

Shields, G. (2013) *Cite them right: the essential referencing guide*. 9<sup>th</sup> edn. Basingstoke: Palgrave Macmillan

### Recommended

Rudestam, K.E. and Newton, R.R. (2007) *Surviving your dissertation: a comprehensive guide to content and process*. London: Sage.

Sharp, J.A. and Howard, K. (2002) *The management of a student research project*. 3<sup>rd</sup> edn. Farnham: Gower Publishing Ltd.

Glasman-Deal, H. (2009) *Science research writing for non-native speakers of English*. London: Imperial College Press

Levin, P. (2008) *Excellent dissertation*. Maidenhead: Open University Press

Walliman, N. S. (2011) *Your research project: a step-by-step guide for the first-time researcher*. 3<sup>rd</sup> edn. London: Sage.

Farrell, P (2011) *Writing a built environment dissertation. Practical guidance and examples*. Chichester: John Wiley & Sons Ltd.

<b>Indicative learning and teaching time (10 hrs per credit):</b>	<b>Activity</b>
<b>Student/tutor interaction, some of which may be online:</b>  18 hours 2 hours 10 hours	Research Methods classes Preparation for oral examination Supervisory meetings
<b>Student learning time:</b>  570 hours	(including oral examination)
<b>Total hours :</b>	600 hours

## Appendix 2 Record of Supervision

This is a Dissertation supervision form. It is the duty of the student to take the print out of this form and get the sign from the supervisor. This also acts as a proof of your attendance.

<b><u>Postgraduate Dissertation</u></b>			
<b><u>Record of Supervision</u></b>			
Student No	:	Supervisor's Name	:
Date	:	Time	:
Location:			
Summary of main points discussed:			
Actions agreed for student :			
Actions agreed for supervisor :			
Date of next supervision:			
Student's signature :			
Supervisor's signature :			

## Appendix 3 Cover Sheet



# TITLE OF THE DISSERTATION

A Dissertation work submitted to the UNIVERSITY OF EAST LONDON in partial fulfillment of the requirements for the award of the degree of

**MSc in Computer System Engineering**

by

**Name of the student**  
**UEL Register Number**

Guided by

**Internal Guide Name**

**School of Engineering & Computing Sciences (SOECS)**  
**FTMS COLLEGE**  
**CYBERJAYA**  
**MALAYSIA**

Submission month & Year

## Appendix 4 Declarations



# FTMS COLLEGE

**CYBERJAYA  
MALAYSIA**

This is to certify that this Dissertation work entitled

**TITLE OF THE DISSERTATION**

is a bonafide record of the Dissertation work done

by

**Name of the student  
UEL Register Number**

at FTMS College, Malaysia during the year <academic year> in partial fulfillment of the requirements for the award of the degree of

**MSc in Computer System Engineering**

**Internal Supervisor name  
Designation**

Submitted for the University of East London and the Presentation held at FTMS College, Cyberjaya, Malaysia on \_\_\_\_\_.

## Appendix 5 Certificate



(Certificate from the Internal Guide)

Supervisor Name  
Designation  
FTMS College  
Cyberjaya, Malaysia.

### CERTIFICATE

This is to certify that this Dissertation entitled “ “  
submitted in partial fulfillment of the requirements for the award of the degree of **MSc in Computer System Engineering** to the University of East London, UK through FTMS College, Cyberjaya, Malaysia is a bonafide record of the work done by **<Name of the student>** (Reg.No.) under my supervision and guidance.

Date :

Signature of the Supervisor

## **Appendix 6 Dissertation Proposal**

### **DISSERTATION PROPOSAL**

**Programme:**

**Year:**

**Student Name:**

**Semester:**

**Student Number:**

**Title:**

**Problem Statement:**

**Aim:**

**Objectives:**

**Methodology:**

**Rational:**

**Proposed Supervisor Name:**

**Signature:**

**Date:**

## Appendix 7 Presentation Slides Sample



Name:  
UEL ID:  
Intake:  
Programme Name:  
Research Title:  
Supervisor:  
Co – Supervisor:

### Outline

- Abstract
- Introduction
- Background Studies
- Aim
- Research Motivation
- Research Problem
- Research Objectives
- Research Questions
- Research Scope
- Literature Review
- Methodology
- Implementation
- Experimental Result & Analysis
- Testing
- Critical Analysis
- Conclusion
- Future Enhancement
- Reference List

## Abstract

## Background Studies

## FORMAT

Topics	Font Name	Font Size	Font Style
Heading	Times New Roman	24	Bold
Subheading	Times New Roman	14	Bold
Text Content	Times New Roman	18	Normal
Equations	Times New Roman	12	Italic
Reference List (Harvard Referencing)	Times New Roman	12	Normal

## Appendix 8 Rubrics

Criteria / Marks	Distinction ( 70%+)	Merit (60-69%)	Pass (50-59%)	Fail (less than 50%)
<b>Overall and Introduction (5 marks)</b>	The problem addressed in the Dissertation is a <b>significant technical</b> or <b>academic</b> one, and has been shown to be so by the student. The Dissertation could form the basis for <b>published</b> work ( <b>very high academic quality</b> piece of written work).	The problem addressed in the Dissertation is a <b>significant technical</b> or <b>academic</b> one, and has been shown to be so by the student. The work would need <b>substantial development</b> were it to form the basis for published work.	The problem addressed in the Dissertation is a <b>significant technical</b> or <b>academic</b> one, and has been shown to be so by the student. The work would need <b>major revision</b> were it to form the basis for published work.	Does not address a <b>sufficiently challenging problem</b> . The work is <b>not publishable</b> material.
<b>Aim, Objectives, and Rationale (5 marks)</b>	The aim and research objectives (questions or hypotheses) are <b>very clear</b> . Has provided an <b>excellent rationale</b> for the research.	The aim and research objectives (questions or hypotheses) are <b>very clear</b> . Has provided a <b>very good rationale</b> for the research.	The aim and research objectives (questions or hypotheses) are <b>clear</b> . Has provided a <b>sufficiently good rationale</b> for the research.	The aim and research objectives (questions or hypotheses) are <b>very vague</b> . Has provided a <b>very weak rationale</b> for the research.
<b>Literature Survey (15 marks)</b>	In addressing the problem the student has <b>evidenced a critical understanding</b> of the relevant research literature. Have <b>extensively</b> conducted <b>critical analysis</b> and <b>synthesis</b> for the literature review. <b>Most</b> literature surveyed is <b>up to date</b> .	In addressing the problem the student has <b>evidenced an understanding</b> of the relevant research literature, albeit with <b>limited critique</b> . Have conducted <b>some critical analysis</b> and <b>synthesis</b> for your literature review. <b>Some</b> literature survey is <b>up to date</b> .	In addressing the problem the student has <b>evidenced some understanding</b> of relevant literature, albeit <b>largely descriptive</b> . Has conducted <b>very little critical analysis</b> and <b>synthesis</b> for your literature review. <b>Most</b> literature surveyed is <b>dated</b> .	In addressing the problem the student has <b>evidenced very limited understanding</b> of relevant literature. Has conducted <b>no critical analysis</b> and <b>synthesis</b> for your literature review. <b>All</b> literature surveyed is <b>dated</b> .
<b>Methodology (10 marks)</b>	The student has demonstrated a <b>sound justification</b> for the methodology adopted and has <b>carried out</b> the methodology in an <b>insightful</b> and <b>professional</b> manner, demonstrating <b>originality</b> and a <b>self-critical evaluation</b> of effectiveness.	The student has demonstrated a <b>sound justification</b> for the methodology adopted and has <b>carried out</b> the methodology <b>effectively</b> .	The student has demonstrated <b>some justification</b> for the methodology adopted and has <b>carried out</b> the methodology <b>effectively</b> .	Adopts an <b>inappropriate</b> and <b>poorly justified</b> methodology.
<b>Implementation (25 marks)</b>	All the functionalities needed for the chosen system are working very perfectly which was very well demonstrated during the demo of the system.	All the functionalities needed for the chosen system are working good which was well demonstrated during the demo of the system.	All the functionalities needed for the chosen system are working moderately which was demonstrated during the demo of the system.	All the functionalities needed for the chosen system are working poorly which was demonstrated during the demo of the system.
<b>Research Outcome and Discussion (10 marks)</b>	<b>All</b> the results from the research have been <b>mapped precisely</b> to the research objectives (questions, hypotheses or	<b>Almost all</b> of the results from the research have been <b>mapped</b> to the research objectives (questions, hypotheses or	<b>Some</b> of the results from the research have been <b>mapped</b> to the research objectives (questions, hypotheses or prototype/product). The student <b>relates the results to</b>	The results from the research <b>have not been mapped</b> to the research objectives (questions, hypotheses or

	prototype/product). The student <b>relates the results to the literature</b> and makes <b>innovative suggestions</b> regarding how the work could be developed.	or prototype/product). The student <b>relates the results to the literature</b> and makes <b>some suggestions</b> regarding how the work could be developed.	<b>the literature</b> and makes very <b>few</b> suggestions regarding how the work could be developed.	prototype/product). The student <b>does not relate any results found to existing theory</b> and fails to make reasoned suggestions for further development.
<b>Conclusion &amp; Future Enhancements (10 marks)</b>	The student has provided an <b>excellent summary</b> of the research accompanied by an <b>excellent critique &amp; evaluation</b> of the work conducted (methods and/or prototype/product). It also includes <b>excellent recommendations for further research</b> .	The student has provided a very <b>good summary</b> of the research accompanied by <b>some critique &amp; evaluation</b> of the work conducted (methods and/or prototype/product). It also includes <b>good recommendations for further research</b> .	The student has provided a <b>summary</b> of the research accompanied by <b>limited critique &amp; evaluation</b> of the work conducted (methods and/or prototype/product). It also includes <b>weak recommendations for further research</b> .	The student has not provided a <b>summary</b> of the research and <b>is not</b> accompanied by a <b>critique or evaluation</b> of the work conducted (methods and/or prototype/product). It <b>does not</b> include any <b>recommendation for further research</b> .
<b>Presentation &amp; Viva (15 Marks)</b>	The candidate has given an exceptional presentation with all the questions raised during viva been responded.	The candidate has given a good presentation with most of the questions raised during viva been responded.	The candidate has given a moderate presentation with most of the questions raised during viva been responded.	The candidate has given a poor presentation with most of the questions raised during viva been not responded.
<b>References (5 marks)</b>	<b>All</b> the references are in Harvard Style of Referencing.	<b>Almost all</b> the references are in Harvard Style of Referencing.	<b>Some</b> the references are in Harvard Style of Referencing.	<b>None</b> of the references is in Harvard Style of Referencing.