**De Montfort University**

**Module template proforma**

**Basic module information**

Module Title: **Final Year Project**

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| Module Code: **IMAT3451** | Credit value:**30** | Credit level:**6** |

Owning Board: **BCM**

Faculty: **Technology**

Term: **Y**

Module Leader: **Efpraxia Zamani**

Module pre-requisites: The project normally requires students to have undertaken successfully the requirements at level 5 and level 4 of their degree programme prior to commencing the project. The prior learning for each project, however, is dependent on the nature of that project. It is expected that students will choose their project topics, based on their individual course's requirements and with reference to their own prior learning

Maximum student numbers on module: **NA**

**Module description**: The project provides students with the opportunity to carry out a significant piece of work involving critical analysis and reflection to provide an effective solution to a given technical and/or research-based problem. It enables students to apply and integrate previous material covered on the student's course as well as to extend the work covered on the course through research and self-learning. Students will be expected to demonstrate appropriate and proactive project management, and written/verbal presentation skills throughout the period of the project. As well as analysing, designing, delivering and appraising a product of suitable quality, they will be expected to undertake, research, analyse, design, evaluate and report on some aspects of a subject explicitly allied to the project.

Indicative Content

The range of projects will be wide. Projects are obtained from a variety of sources; internal academics, from external organisations, and many from students themselves. A Computer systems project, for example, could involve a range of activities necessary to create a successful system, from the initial fact finding, through to implementation and user training. A research-based project may concentrate on the investigation and analysis of academic and/or empirical research relating to a given research question/topic.

Some courses may have mandatory requirements that restrict the nature of project work in order to satisfy, for example, course validation conditions and/or the requirements of professional bodies such as the British Computer Society (BCS).

In all cases, the project report submission normally takes the following structure:

1. A **Main Report** providing a summary of the project experience, to normally include:

* an abstract
* an introduction and overview to the problem being addressed and the objectives of the project
* an overview of the project management approach adopted
* an overview of the methodology selected with justification
* one or more sections summarising activities that were undertaken as part of the project, probably corresponding to the activities that are prescribed by the chosen methodology.
* one or more sections summarising the academic literature review undertaken as part of the project requirements.
* a critical evaluation and reflection on the whole project experience, including the student's project management, as well as on the product produced.
* a conclusions section, with possible directions for further work.
* a reference list
* acknowledgements

2. A **set of Appendices** that are referred to within the Main Report, and which contain the substantive work on the project, including product deliverables, such as requirements and design specifications and other project documents (project contract, inform consent, ethics review form etc.).

Students also undertake a Viva examination (a presentation or a demonstration depending on the nature of their project) shortly after the submission of the Final Deliverable.

Project assessment will normally be based on criteria associated with the following areas:

* conduct and general motivation
* comprehension of problem and possible solutions
* approaches and methods adopted
* results/deliverables
* organisation and presentation

These are evaluated from the following sources:

* the First and Final Written Deliverables
* the Viva examination
* the student's Project Supervisor and second marker
* the Project Proposer (if applicable)

**Table of Deliverables**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Research Projects** | **Development Projects** | **Hybrid Projects** |
| **First Submission** (first deliverable)  Week 7 | * Project contract * Ethics form * Project Plan (e.g., Gantt Chart) * Global Checklist * Scoping Review (mapping out the key concepts and work in the field) * Research Questions | * Project contract * Ethics form * Project Plan (e.g., Gantt Chart) * Global Checklist * Literature Review * Requirements * BCS checklist (if pertinent) | * Project contract * Ethics form * Project Plan (e.g., Gantt Chart) * Global Checklist * Literature Review * Requirements * BCS checklist (if pertinent) |
| **Final Submission** (final deliverable)  These are some examples: each project will need a complete set of objectives/deliverables  Week 29 | * Full literature Review * Updated (if needed) Research Questions * Report on the field study * Findings and analysis * Conclusions etc. * Reference list * Appendices (surveys, interviews evidence etc) * Maximum word count (main body): 15.000 | * Use Case Diagrams/Use Case Descriptions/Class diagrams/ER model/State transition diagrams * Story boards/Interface Designs * Design Documentation * Test Plan * Prototype * Final report, including critical evaluation * Software * Appendices (e.g. further design documentation, test logs) * Maximum word count (main body): 15.000 | * Use Case Diagrams/Use Case Descriptions/Class diagrams/ER model/State transition diagrams * Story boards/Interface Designs * Design Documentation * Test Plan * Prototype * Final report, including critical evaluation * Software * Appendices (e.g. further design documentation, test logs, surveys, interviews evidence) * Maximum word count (main body): 15.000 |
| **Viva examination:** attended by the supervisor and the 2nd marker  Weeks 30-32 | * Oral examination (presentation of your work) | * Oral examination (demo of your work) | * Oral examination (presentation and demo of your work |

\*the content of the deliverables is indicative and may be different for the various projects; students will need to agree on the specifics with their supervisor.

**Learning outcomes**

1. Effectively scope and plan an individual project of significant complexity.
2. Carry out work in accordance with the plan, and in a rigorous and sound manner.
3. Provide and justify an effective and informed resolution to the project.
4. Assess the potential global impact of the work
5. Present the project deliverables in a coherent and logical way, and in an suitable manner for the target audience.
6. Undertake appropriate research into one or more identified areas in a systematic and thorough manner.

**Assessment**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Type of assessment** | **Duration/**  **volume** | **Assessment weighting %** | **Final assessment Y/N** | **Minimum threshold mark %** (if not 40% for UG, 50% for PGT) | **Essential component Y/N** | **Learning outcome(s)**  **assessed** | **Anonymously marked**  **Y/N** |
| **First Submission** |  | **10%** | **N** | **40%** | **N** | **1,2, 4** | **N** |
| **Final Submission (this includes the main report and the Viva examination)** |  | **90%** | **N** | **40%** | **N** | **1,2,3,4,5** | **N** |

**Assessment Notes**

It is the student's product that is a principal focus of the assessment, as is the student's ability to manage and undertake the project.

Each project submission will be assessed on general criteria associated with all projects, and on specific criteria that reflect the individual requirements of a particular project. The general criteria focus on those aspects (skills/knowledge) of the project work that all students should exhibit. The specific criteria refer to the substantive work undertaken by the student to achieve that particular project's product.

There are several means by which evidence for assessing project work may be gathered:

* Attendence and quality of supervisory meetings
* One or more written deliverable submissions, in the manner as detailed in the current student project booklet
* Viva examination (Demo/presentation)

An appropriate marking scheme will be detailed and available on the module Blackboard shell, and used to guide the combining of the generic and specific aspects of a student's work to generate an overall mark for the project. A mark for a student's project is determined independently by the supervisor and a second marker, and then a final mark is agreed jointly by the two markers, with the Project Co-ordinator adjudicating in the event of dispute. Any proposed mark for a student is subject to both internal and external moderation. Internal moderation will be sympathetic towards the differing nature of projects and the different initial programme-provided skill sets of students doing the project module across different programmes.

Unless there are exceptional circumstances:

**- students that fail to attend the viva examination will be given an overall project mark of zero percent;**

**- if during the viva examination a student cannot demonstrate an understanding of the work that has been submitted in their name they will fail the viva examination and will be awarded a mark of zero for the components they cannot explain.**

**Reassessment**

Deferral assessment is by deferred component. Referral normally involves either undergoing the entire project activity/assessment cycle with reference to a new project (if the project scores below 30%) or, if considered feasible by the assessment board, to the amendment/enhancement of the same project within an appropriate timeframe (if the project scores between 30% and 39%). The referral method adopted for a particular student will typically be decided taking into account any recommendations from the student's project supervisor.

**Expected methods of delivery**

The project is primarily self-directed with guidance and support from an assigned supervisor. Project skills sessions will normally be provided to give students the necessary pre-requisite knowledge and skills for the project that are not covered elsewhere in the taught programme. A few 'Experts' may also be available to all students at appropriate times during the Project year to provide advice and help regarding particular software applications and systems development aspects. A project Blackboard shell is available as a resource for students, which contains all the necessary project documents/forms, the project calendar, project guidance notes, the list of available projects and supervisor allocations, deadline information, lecture notes etc.

Depending on the nature of the project, a viva examination (presentation or demo) is given towards the end of the module. This enables students to show their understanding of the findings of their work, and to defend what they have done and how they have done it.

**Module delivery variations** (if applicable)

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| --- | --- | --- |
| **Module Name: Computing Project Code: IMAT3451 Level: 6** | | |
| **Learning Approach for Module** | **Hours Per Module** | **Total: 300** |
| **a. Academic Led : Face to Face (f) or Virtual (v)** | | |
| **Fieldtrip** |  |  |
| **Practical** |  |  |
| **Lecture / Large Group** | 5 |  |
| **Seminar (currently called Tutorial)** |  |  |
| **Studio** |  |  |
| **Tutorial** | 5 |  |
| **Workshop** |  |  |
| **b. Non Academic Led: Placement Learning (PL)** | | |
| **Placement** |  |  |
| **c. Student Led: Self-Directed Learning (SDL)** | | |
| **On Line Learning** |  |  |
| **Reading – suggested reading is part of seminar work** |  |  |
| **Collaborative Activities** |  |  |
| **Reflection** |  |  |
| **Revision** |  |  |
| **Consolidation** | 290 |  |
| **PGR Training** |  |  |