Definitive Module Document

1. MODULE CODE:	7COM1038	**Academic Session:** 2021	**Version:** 1
2. LONG TITLE:	Software Engineering Masters Project		
3. SCHOOL/DEPARTMENT:	Computer Science		
4. CREDITS:	60		
5. DATE FIRST OFFERED:	01-SEP-13		
6. LEVEL:	7		
7. LOCATION:	- U H Hatfield		

8. Module Aims:
The aims of this module are to enable students to...

• select and use appropriate software engineering models, methodologies, measures and tools in order to conduct a practical investigation or solve a particular software engineering problem, and critically evaluate their own work.

• demonstrate that they can work independently with minimum supervision, plan their work effectively, and present the outcome of their work in written and oral form;

• draw on what they already know about software engineering to identify further areas of study, and extend their knowledge by making critical use of the technical and scientific literature and other materials, and conceive original ideas of their own.

9. Intended Learning Outcomes:

9a. Knowledge and Understanding:
Successful students will typically:

• be able to critically evaluate advanced literature in software engineering topics relevant to their chosen project;

• be able to refer to the findings of other academic writers and the outcomes of their own investigations to justify their choices and conclusions;

• be able to combine their knowledge of the subject, their reading of research papers and the outcome of their own investigations to conceive original ideas of their own.

9b. Skills and Attributes:
Successful students will typically:

• be able to plan and manage a substantial body of work, identify any risks inherent in their chosen approach, and work independently with minimum supervision;

• be able to select and use appropriate software engineering models, methodologies, measures and tools in order to conduct a practical investigation or solve a particular software engineering problem;

• be able to both critically evaluate and discuss the outcome of their project work in written and oral form;

• be able to articulate the broader contexts of their work in relation to legal, social, ethical, and professional issues, and assess the economic impact of their project.

10. Modes of Delivery:
The following represents the mode and associated learning activities.

10a. Delivery Mode:
Classroom based

10b. Activities:

Activity	*Hours*
1.Classroom based lectures	5
2.Classroom based seminars and tutorials	5
3.Classroom based practical classes, workshops, studios or demonstrations	0

Activity	*Hours*
4.Scheduled online activities (ie online versions of the above)	0
5.Scheduled external learning activities - fieldwork, external visits and work based learning	0
6.Online directed independent study	0
7.Other directed independent study	90
8.Self-directed independent study	500
9.Placement	0
10.Year Abroad	0
TOTAL HOURS	**600**

11. Module Content:

11a. Module Content: (for publication, max 150 words)

The project is a show piece opportunity for students to demonstrate what they know about current research and practices in software engineering and show off their skills in applying software engineering models, methodologies, measures and tools in order to conduct a practical investigation or tackle a particular software engineering problem.

The project is a self-directed piece of work, conducted with minimum online supervision that demonstrates the student's ability to plan and manage a substantial piece of work, and steer their own efforts.

Students are expected to be thorough in their work, and, particularly, identify and tackle any difficult or challenging aspects of the problems they are trying to solve. It is not just the quantity, or even the quality of work that is considered when grading the project, but the level of difficulty and the scope of the problem being addressed.

11b. Further Details: (supporting Learning Outcomes, max 250 words)

The module commences with an examination of the nature of projects and their assessment criteria. Typically this involves a series of lectures; directed reading and exercises that helps students refine ideas, and culminates in a detailed project proposal.

Project proposals include a review of the academic background to the project, the objectives and goals of the project, the proposed method of design or development, and a schedule and resource plan. The proposal must also include and discuss economic and commercial issues, areas of risk and social, legal, professional and ethical issues related to their work.

The proposal produced by the student will be assessed on how they demonstrate their knowledge and understanding of the subject domain and their ability to plan a major body work. Additionally, the proposal will be assessed for identifying appropriate social, professional, legal or ethical issues arising from the work, identifying areas of risk and a review the economic and commercial impact of the work.

Once a proposal has been received, individual tutors are assigned to help keep an eye on progress, and it is expected that students communicate with their tutor regularly, although other arrangements can be made. Students are expected to informally report on their progress regularly (weekly for full-time students and less frequently for part-time students), and formally, as often as required, for assessment. Most of the assessment, however, rests on the final submission. Students are expected to not only report on what they have achieved, but also to critically evaluate the work they have done. This report will be in the form of a written piece of work, typically 10,000-12,000 words in length. Students are also expected to demonstrate or present their work (via a viva/demonstration) to the assessors of their written report, and to answer any questions about their project or the contents of the report.

12. Assessment: (weighting and compulsory information, max 50 words)

12a. Assessment Type: Weighting:

Coursework 1   1

12b. Compulsory Information and Further Details:

Coursework: 100%, Exam: 0%

Pass overall.

There is no minimum engagement requirement, but continued participation on the project module through regular interaction with the supervisor and active participation in any appropriate online fora (StudyNet) and meetings will be expected. Students who do not submit a proposal, fail to contact their tutor for three or more weeks, or do not submit required interim progress reports, will be assumed to no longer be participating on the module and will be withdrawn.

Assessment of participating students is principally based on the final project report. However, in order to help the assessors grade the final report, all students are expected, to also demonstrate or present their work in a viva/demonstration, and answer questions about their project work, or the contents of their report. Students will also be required to submit one or more interim project reports, outlining what progress they have made.

In assessing student work we will refer to the UH and School generic grading criteria (further information will be provided in the module guide). However for reference an overview of the typical assessment criteria for the final submission is provided below:

For a Numeric Grade of 80 or above, the student work is expected to be truly outstanding.

For a Numeric Grade between 70 and 79, the student work is expected to be of an excellent standard. There should be evidence of substantial achievement of very high quality, and the report should demonstrate that a student can explain and critique what they have done, why they did it, what they achieved by doing it, and how their work might be improved or extended. The report is expected to be well-structured, coherent, well-written and free of significant grammatical errors.

For a Numeric Grade between 60 and 69, the student work is expected to be of a very good standard. The work submitted should contain a broad-ranging and thorough investigation of the project topic, with a methodical presentation of all the main issues. There should be evidence of a substantial quantity of work of a high standard, in which the student clearly demonstrates relevant principles and practices, and chosen and applied appropriate tools and techniques. The report is expected to be well-structured, coherent, and largely free of grammatical errors.

For a Numeric Grade between 50 and 59, the student work is expected to be of a satisfactory or good standard. There should be evidence that the student has taken a methodical approach to the work, and that they have undertaken practical work of reasonable scale and at least to an average standard. The report expected to be coherent and largely free of grammatical errors.

13. Pre and Co Requisites further comments:

Students must have studied 120 credits of taught modules from the programme (or gained credit that is deemed equivalent via an approved accreditation process).

14. Module Board:

15. Programmes on which this module is offered:

16. Previous Module and Syllabus:

7COM0091

17. Any Other Comments:

18. Language of Delivery and Assessment:

English

Circumstances may require the University to vary the module content, mode of delivery and assessment methods.

Signatures

Post	Name	Date	Signature	Date
Head of Sch/Dep			_____	_____
Fac Reg			_____	_____
ADAQ			_____	_____

Admin Information:
List clearly any assessments that can be failed (e.g. "CW", "CW or EX", "None", etc) and, still, an overall pass grade be achieved.

None