MODULE SPECIFICATION

Part 1: Information			
Module Title	Emerging Topics in Software Engineering		
Module Code	UFCFCD-15-M	Level	Level 7
For implementation from	2018-19		
UWE Credit Rating	15	ECTS Credit Rating	7.5
Faculty	Faculty of Environment & Technology	Field	Computer Science and Creative Technologies
Department	FET Dept of Computer Sci & Creative Tech		
Contributes towards	Software Engineering [Sep][FT][Frenchay][1yr] MSc 2018-19 Software Engineering [Sep][PT][Frenchay][2yrs] MSc 2018-19		
Module type:	Standard		
Pre-requisites	None		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

Part 2: Description

Educational Aims: See Learning Outcomes

Outline Syllabus: There is no prescribed syllabus for this module. Rather, four emerging research topics in software engineering will be chosen for their significance by the module leader in conjunction with the Software Engineering Research Group for each yearly run.

For example, emerging topics may or may not relate to:
knowledge-driven requirements engineering
project management and software cost estimation
software architectures for enterprise systems and cloud computing
software testing
quality and configuration management

service-oriented software engineering
search-based software engineering

Teaching and Learning Methods: Students will attend weekly seminars of the Software Engineering Research Group conducted by specialist visiting lecturers and/or research staff nominated by the module leader and in coordination with Software Engineering Research Group.

In addition, students will also meet as appropriate with a designated tutor who will provide context and guidance of the emerging topic in Software Engineering.

Scheduled learning:

Students will receive appropriate material in advance of the scheduled seminars to enable effective interaction during the seminars and enrich knowledge exchange between students and tutors.

Within context and guidance set by the designated tutor, students from into small groups to locate, read, and precis the associated research material for each emerging topic in preparation for student led discussions building a corporate body of opinion, with their own arguments and perspectives on the selected topic but using a form of conferencing style, with the tutor ensuring essential omission does not occur. Online discussion forums will be made available via the Virtual Learning Environment (Blackboard) as will audio recordings of the weekly seminars where practical.

Independent learning: Context and guidance will be provided to students in the form of suggested 'signpost' articles for each emerging research topic, but students will be expected to carry out independent research ahead and after the scheduled seminar topic.

Part 3: Assessment

The assessment strategy for this module comprises a written essay.

The essay comprises a critical review about any two of the four emerging topics in Software Engineering chosen by the student.

For each emerging topic, the essay will provide:
Significance and any problematic issues relating to the emerging topic.
Relevant research question(s) relating to the emerging topic.
Critical analysis and evaluation of sources addressing the research question(s) representing the state-of-the-art.
Conclusions.
Suggestions for fruitful future research directions.

First Sit Components	**Final Assessment**	**Element weighting**	**Description**
Written Assignment - Component A	✓	100 %	4000 word essay
Resit Components	**Final Assessment**	**Element weighting**	**Description**
Written Assignment - Component A	✓	100 %	4000 word essay

Part 4: Teaching and Learning Methods

Learning Outcomes

On successful completion of this module students will be able to:

	Module Learning Outcomes
MO1	Locate relevant research articles in the software engineering literature
MO2	Conduct a review of relevant research articles in the software engineering literature
MO3	Suggest future research directions for software engineering
MO4	Show cognitive skills on research issues at an appropriate level
MO5	Demonstrate key transferable skills relating to formulating relevant research questions, progression to independent learning, and communicating research outcomes

Contact Hours

Contact Hours	
Independent Study Hours:	
Independent study/self-guided study	114
Total Independent Study Hours:	114
Scheduled Learning and Teaching Hours:	
Face-to-face learning	36
Total Scheduled Learning and Teaching Hours:	36
Hours to be allocated	150
Allocated Hours	150

Reading List

The reading list for this module can be accessed via the following link:

https://uwe.rl.talis.com/modules/ufcfcd-15-m.html