STUDENT AND ACADEMIC SERVICES

MODULE SPECIFICATION

Part 1: Information			
Module Title	Mobile Networks		
Module Code	UFCFJC-15-3	Level	Level 6
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	Information Technology [Sep][FT][Frenchay][1yr] BSc (Hons) 2018-19		
Module type:	Standard		
Pre-requisites	Computer Networks and Operating Systems 2018-19		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

Part 2: Description
Educational Aims: See Learning Outcomes **Outline Syllabus:** Telecommunication systems (e.g., GSM, DECT, TETRA, UMTS) Wireless LANs Mobile IP Routing in mobile networks Communication algorithms Ad hoc Networks

Wireless Mesh Networks

QoS constraints

Advances topics in mobile communications

Teaching and Learning Methods: Contact time: 36 hours

Assimilation and development of knowledge: 69 hours

Exam preparation: 30 hours

Coursework preparation: 15 hours

Total study time: 150 hours

A mixture of readings, lectures and case studies will be used. There will be a significant practical element to the module and students will be expected to analyse, design and implement examples of web-based information systems using a variety of technologies.

Part 3: Assessment			
The module is assessed by a 3 hour examination at the end of the teaching and also by coursework. The exam assesses the students' understanding of the theoretical aspects of the module. The coursework allows the student to demonstrate practical application of methodologies, tools and techniques.			
First Sit Components	**Final Assessment**	**Element weighting**	**Description**
Set Exercise - Component B		50 %	Individual research based assignment
Examination - Component A	✓	50 %	Exam (3 hours)
Resit Components	**Final Assessment**	**Element weighting**	**Description**
Set Exercise - Component B		50 %	Individual research based assignment
Examination - Component A	✓	50 %	Exam (3 hours)

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Part 4: Teaching and Learning Methods		
Learning Outcomes	On successful completion of this module students will be able to:	
		Module Learning Outcomes	
	MO1	Research the problems associated with mobile networks using appropriate techniques currently deployed by different technologies
	MO2	Analyse and evaluate the deployment of advanced features in the design of mobile networks
	MO3	Specify the necessary requirements for providing quality of service in mobile networks
	MO4	Investigate and evaluate the communication applications of different mobile technologies, considering the QoS constraints
	MO5	Research the problems associated with efficient group communication patterns in mobile networks
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/index.html	