

MODULE SPECIFICATION

Part 1: Information						
Module Title	Mobile Networks					
Module Code	UFCFJC-15-3		Level	Level 6		
For implementation from	2019-	2019-20				
UWE Credit Rating	15		ECTS Credit Rating	7.5		
Faculty		ty of Environment & nology	Field	Computer Science and Creative Technologies		
Department	FET [FET Dept of Computer Sci & Creative Tech				
Module type:	Stand	Standard				
Pre-requisites		Computer Networks and Operating Systems 2019-20				
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

STUDENT AND ACADEMIC SERVICES

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)

	Part 4: Teaching and Learning Methods						
Learning Outcomes	On successful completion of this module students will achieve the following	owing learning	outcomes:				
	Module Learning Outcomes						
	Research the problems associated with mobile networks using appropriate techniques currently deployed by different technologies						
	Analyse and evaluate the deployment of advanced features in the design of mobile networks						
	Specify the necessary requirements for providing quality of service in networks	mobile	МО3				
	Investigate and evaluate the communication applications of different mobile technologies, considering the QoS constraints						
	Research the problems associated with efficient group communication patterns in mobile networks						
Contact Hours	Independent Study Hours:						
	Independent study/self-guided study						
	Total Independent Study Hours:	11	14				
	Scheduled Learning and Teaching Hours:						
	Face-to-face learning	3	36				
	Total Scheduled Learning and Teaching Hours:	3	6				
	Hours to be allocated	15	50				
	Allocated Hours 1						
Reading List	The reading list for this module can be accessed via the following link:						
List	https://uwe.rl.talis.com/index.html						

Part 5: Contributes Towards
This module contributes towards the following programmes of study: