MODULE SPECIFICATION

Part 1: Information			
Module Title	Foundation Statistics		
Module Code	UFMFDG-15-0	Level	Level 3
For implementation from	2019-20		
UWE Credit Rating	15	ECTS Credit Rating	7.5
Faculty	Faculty of Environment & Technology	Field	Engineering, Design and Mathematics
Department	FET Dept of Engin Design & Mathematics		
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: Introduction to Minitab; data entry, descriptive and graphical representations of data, simulation of data and probability distributions, fitting statistical models.

Discrete and continuous probability distributions including the binomial and normal.

Sampling distributions, estimation including Confidence Intervals.

Hypothesis testing: Z-tests, Chi-square tests for contingency tables and goodness of fit.

Correlation and regression.

Teaching and Learning Methods: Scheduled teaching hours will take the form of:

On alternative weeks: Two hours lecture/workshop in a computer lab and a one hour

lecture/tutorial in a classroom.

Contact time 36 hours
Assimilation and development of knowledge 72 hours
Assessment 42 hours
TOTAL 150 HOURS

Part 3: Assessment

The examination tests the students' ability to use software to implement solutions to short statistical problems under controlled conditions.

The coursework is both summative and formative, and assesses the student's ability to apply computer based solutions to statistical problems that arise in an investigation and will require ability to present information in a clear and concise way.

First Sit Components	**Final Assessment**	**Element weighting**	**Description**
Written Assignment - Component B		75 %	Investigation
Examination - Component A	✓	25 %	Computer lab based examination (2 hours)
Resit Components	**Final Assessment**	**Element weighting**	**Description**
Written Assignment - Component B		75 %	Investigation
Examination - Component A	✓	25 %	Computer lab based examination (2 hours)

Part 4: Teaching and Learning Methods

Learning Outcomes

On successful completion of this module students will achieve the following learning outcomes:

Module Learning Outcomes	**Reference**
Present numerical information using a variety of graphical formats	MO1
Conduct a variety of elementary data analysis investigations using standard statistical software	MO2
Show an understanding of the basic methods of statistical inference	MO3
Communicate the results of a statistical analysis in the form of a written report	MO4

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/ufmfdg-15-0.html	

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