



MODULE SPECIFICATION

Part 1: Information			
Module Title	Foundation Statistics		
Module Code	UFMFDG-15-0	Level	Level 3
For implementation from	2020-21		
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
<p>Educational Aims: See Learning Outcomes.</p> <p>Outline Syllabus: Introduction to Minitab; data entry, descriptive and graphical representations of data, simulation of data and probability distributions, fitting statistical models.</p> <p>Discrete and continuous probability distributions including the binomial and normal.</p> <p>Sampling distributions, estimation including Confidence Intervals.</p> <p>Hypothesis testing: Z-tests, Chi-square tests for contingency tables and goodness of fit.</p> <p>Correlation and regression.</p> <p>Teaching and Learning Methods: Scheduled teaching hours will take the form of:</p> <p>On alternative weeks: Two hours lecture/workshop in a computer lab and a one hour lecture/tutorial in a classroom.</p> <p>Contact time 36 hours</p>

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Assimilation and development of knowledge 72 hours Assessment 42 hours TOTAL 150 HOURS
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Part 3: Assessment			
The assessment is design for student's to develop and implement computer based solutions to statistical problems that arise in an applied context. The module provides an introductory course in statistics and so the use of software at an early stage allows to students to gain confidence in the subject, by being able to generate data and focus on the interpretation of statistical numerical and graphical information. The output from the investigation will be a written report where students can demonstrate their ability to to present information in a clear and concise way.			
First Sit Components	Final Assessment	Element weighting	Description
Written Assignment - Component A		100 %	Investigation
Resit Components	Final Assessment	Element weighting	Description
Written Assignment - Component A		100 %	Investigation

Part 4: Teaching and Learning Methods													
Learning Outcomes	<p>On successful completion of this module students will achieve the following learning outcomes:</p> <table border="1"> <thead> <tr> <th>Module Learning Outcomes</th> <th>Reference</th> </tr> </thead> <tbody> <tr> <td>Present numerical information using a variety of graphical formats</td> <td>MO1</td> </tr> <tr> <td>Conduct a variety of elementary data analysis investigations using standard statistical software</td> <td>MO2</td> </tr> <tr> <td>Show an understanding of the basic methods of statistical inference</td> <td>MO3</td> </tr> <tr> <td>Communicate the results of a statistical analysis in the form of a written report</td> <td>MO4</td> </tr> </tbody> </table>	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		
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	Hours to be allocated	150
	Allocated Hours	150
Reading List	<i>The reading list for this module can be accessed via the following link:</i> https://uwe.rl.talis.com/modules/ufmfdg-15-0.html	

Part 5: Contributes Towards

This module contributes towards the following programmes of study:

Mathematics with Qualified Teacher Status (QTS) {Foundation} [Sep][FT][Frenchay][4yrs] BSc (Hons) 2020-21