

Module code	SM-1402		
Module Title	Basic Statistics		
Degree/Diploma	Undergraduate GenNEXT Bachelor degree		
Type of Module	Breadth		
Modular Credits	2	Total student Workload	6 hours/week
		Contact hours	3 hours/week
Prerequisite	None		
Anti-requisite	None		
Aims			
The module is designed to provide the students the fundamental knowledge of statistics, its application and the basic concepts of random variables and sampling.			
Learning Outcomes			
<i>On successful completion of this module, a student will be expected to be able to:</i>			
Lower order :	30%	- represent statistical data in different graphical and tabular formats	
Middle order :	60%	-calculate the elementary statistical properties of a univariate data sample -calculate the probabilities of the outcomes of a range of simple random experiments	
Higher order:	10%	- recognise and apply a number of standard probability distributions to model simple random processes	
Module Contents			
<ul style="list-style-type: none"> - Methods of data representation. - Descriptive statistics: <ul style="list-style-type: none"> - Mean, median, mode, standard deviation and quartiles. - Probability: <ul style="list-style-type: none"> Sample spaces, counting techniques and rules of probability. - Random variables: <ul style="list-style-type: none"> - Expected value, probability density functions and normal distribution. - Sampling: <ul style="list-style-type: none"> Random samples and the central limit theorem. 			
Assessment	Formative assessment	Tutorial and feedback.	
	Summative assessment	Examination: 60% Coursework: 40% - 2 class tests (30%) - 1 assignment (10%)	