

Module code	SM-2403		
Module Title	Introductory Statistics		
Degree/Diploma	Undergraduate GenNEXT Bachelor degree		
Type of Module	Breadth		
Modular Credits	2	Total student Workload	8 hours/week
		Contact hours	4 hours/week
Prerequisite	None		
Anti-requisite	BB-1102 Business Statistics SM-2205 Intermediate Statistics		
Aims			
The module is designed for students to understand the fundamental principles of probability and statistics and to apply these techniques in real world problems.			
Learning Outcomes			
<i>On successful completion of this module, a student will be expected to be able to:</i>			
Lower order :	30%	- understand the basic principles of descriptive and inferential statistics and various distributions	
Middle order :	60%	- analyse various categorical and numerical data	
Higher order:	10%	- interpret the results of analyses - work independently and in a team	
Module Contents			
<ul style="list-style-type: none"> - Descriptive statistics, tables and graphs. - Probability, discrete probability distributions such as Bernoulli, discrete uniform, binomial, hypergeometric, Poisson, geometric and negative binomial. Expected values and standard deviation of discrete random variables. - Continuous probability distributions such as uniform, exponential, gamma, beta and normal. Expected values and standard deviation of continuous random variables. - Approximation results including Chebyshev's inequality, Normal and Poisson approximations to the binomial distribution. - Statistical inference: sampling distributions, central limit theorem, estimation and confidence intervals of means, proportions and variances, hypothesis tests for means, proportions and variances. 			
Assessment	Formative assessment	Tutorial and feedback.	
	Summative assessment	Examination: 60% Coursework: 40% - 2 tests (40%)	