

Faculty	Natural Sciences			
Home Department	Statistics and Population Studies			
Module Topic	Distribution Theory			
Generic Module Name	Statistics 211			
Alpha-numeric Code	STA211			
NQF Level	6			
NQF Credit Value	20			
Duration	Semester			
Proposed semester to be offered	First Semester			
Programmes in which the module will be offered	BSc (Computer Science) (3221,3023); BSc (Mathematics and Statistical Sciences) (3227,3031)			
Year level	2			
Main Outcomes	<p>On completion of this module students should be able to:</p> <ul style="list-style-type: none"> • Understand probability theory. • Apply discrete and continuous probability distributions. • Apply moments and moment generation functions. • Understand sampling and sampling distributions. • Develop statistical computer literacy skills. 			
Main Content	<p>Distribution theory:</p> <ul style="list-style-type: none"> • Definition of statistical terms • Probability theory • Discrete and continuous probability distributions • Moments and moment generating functions • Sampling and sampling distributions • Manipulating and summarizing data with reports and graphs 			
Pre-requisite modules	MAT105, MAM115, MAM126, MAM150, (MAM151 + MAM152), MAT103 and STA111, STA125, STA141, STA142, STA151, BUS 131, BUS 132 or equivalent			
Co-requisite modules	MAT104 if students enrolled for MAT103			
Prohibited module Combination	None			
Breakdown of Learning Time	Hours	Timetable Requirement per week		Other teaching modes that does not require time-table
<i>Contact with lecturer / tutor:</i>	60	<i>Lectures p.w.</i>	4	
<i>Assignments & tasks:</i>	40	<i>Practicals p.w.</i>	3	
<i>Practicals:</i>	5	<i>Tutorials p.w.</i>	2	
<i>Tutorials:</i>	0			
<i>Tests & Examinations:</i>	30			
<i>Selfstudy:</i>	65			
<i>Other:</i>	0			
Total Learning Time	200			
Methods of Student Assessment	Continuous Assessment (CA):50% Final Assessment (FA): 50%			
Assessment Module type	Continuous and Final Assessment (CFA)			