

Faculty	Natural Sciences		
Home Department	Statistics and Population Studies		
Module Topic	Statistical Modelling I		
Generic Module Name	Statistical Modelling 737		
Alpha-numeric Code	STA737		
NQF Level	8		
NQF Credit Value	15		
Duration	Semester		
Proposed semester to be offered.	First Semester		
Programmes in which the module will be offered	BSc Hons (Statistical Science) (3737)		
Year level	7		
Main Outcomes	<p>On completion of this module students should be able to:</p> <ul style="list-style-type: none"> • Understand concepts of statistical modelling. • Compare variable selection techniques. • Apply and test linear and non-linear modeling. • Evaluate and select classification methods. • Understand sampling methods. • Assess statistical models. 		
Main Content	<ul style="list-style-type: none"> • Prepare data for modelling (missing data imputation, transformations, resampling, parsing) • Explore variable selection techniques • Data modelling and assessment 		
Pre-requisite modules	None		
Co-requisite modules	None		
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>	30	<i>Lectures p.w.</i>	3
<i>Assignments & tasks:</i>	30	<i>Practicals p.w.</i>	1
<i>Practicals:</i>	30	<i>Tutorials p.w.</i>	1
<i>Tutorials:</i>	0		
<i>Assessments:</i>	10		
<i>Selfstudy:</i>	50		
<i>Other:</i>	0		
Total Learning Time	150		
Methods of Student Assessment	Continuous Assessment (CA): 0% Final Assessment (FA): 100%		
Assessment Module type	Final Assessment (FA)		