

Semester	Code	Module Title	Credits	C/E/O	GPA/NGPA
5	MA3014	Applied Statistics	2	E	GPA
Hours/Week		Pre-requisites/Co-requisites	Evaluation (%)		
Lecture	Tute/Lab		CA	WE	
2	0	MA1024	30	70	
Learning Outcomes					
<p>After the successful completion of this course students should be able to</p> <ul style="list-style-type: none">• Calculate a range of statistics and summarize the properties of statistical distributions related to the analysis of data• Analyze data and interpret results to derive conclusions by choosing appropriate statistical tests• Evaluate the real-world problems using probability, statistics and statistical modelling					
Syllabus Outline					
<ul style="list-style-type: none">• Discrete distributions (Negative Binomial, Geometric, Hypergeometric)• Continuous distributions (Exponential, Gamma, Chi-Square, Fisher’s F-distribution)• Confidence intervals for means, proportion(s) and variance(s)• Hypothesis testing on means, proportions and variances• Contingency tables, Chi-square test of association and Goodness-of-fit test of distributions.• Simple linear regression• Introduction to sampling techniques					