Semester	Code	Module Title	Credits	C/E/O	GPA/NGPA
3,4,5	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

After the successful completion of this course students should be able to
- 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

- 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