Course Specifications

General Information

Course name	Categorical Data Analysis
Course number	STAT4302
Faculty	
Department	
Course type	Major Needs
Course level	4
Credit hours (theoretical)	3
Credit hours (practical)	0
Course Prerequisites	

Course Objectives

1 - The course offers methodologies of model building for practical problems based on categorical data

Intended Learning Outcomes

Knowledge and Understanding

* Facility in the analysis of contingency table data
* Knowledge of the basic ideas and methods of generalized linear models.
* Understanding of logit and loglinear models
* Facility in the analysis of categorical data using spss,minitab

Course Contents

1 - Categorical Responses and Contingency Tables
2 - Generalized Linear Models
3 - Applications and Interpretations for Logistic Regression
4 - Building and Applying Logistic Regression Models

Teaching and Learning Methods

1 - Lectures
2 - applications

Students Assessment

Assessment Method	TIME	MARKS
midterm	1 hour	40 %
final exam	2 hours	40 %
homework		10 %

Books and References

Essential books	An Introduction to Categorical Data Analysis, 2nd Ed., 2007 by Alan Agresti. John Wiley & Sons, ISBN 9780471226185.