Amrita School of Business

Amrita Vishwa Vidyapeetham

Coimbatore PhD 2015-16: Winter Session

Course Title:	Statistics for Management Research
Course Type:	Core Course
Course Instructor:	Dr. Prashobhan Palakkeel
Contact Information:	palakkeel@gmail.com, p_palakkeel@blar.amrita.edu
Mobile:	9449612995
Office:	

Statistics for Management Research

Course Plan

Course Description:

This is the basic foundation course in statistics for the PhD scholars. The course intends to help the scholars develop a basic understanding of descriptive and inferential statistics. Focus is on selecting and applying appropriate statistical tests and determining reasonable inferences and prediction for a set of data.

Course Objective:

This is a first course in statistics intended to introduce the scholars to the principles of statistics. Emphasis is on practical application of statistical concepts and techniques to data analysis. The course aims at developing the statistical thinking skills of the scholars and helps enable them to apply various analytical tools learned in the course to their targeted field of study.

Learning Goals/ Outcomes:

At the end of this course scholars will be able to

- Demonstrate an understanding of basic concepts of organizing, analyzing, interpreting and summarizing the data in a useful and informative manner
- Utilize computer-based statistical software to perform data analysis
- Select and apply the statistical test(s) that are most appropriate to the research
- Conduct independent descriptive and inferential statistical analysis using tools and techniques learned in this course in their targeted field of study.

The highlighted course objectives above support the program level learning goal of **"CRITICAL and INTEGRATIVE THINKING"**

Recommended text book:

- Statistics for Management – Levin, Rubin, Rastogi and Siddiqui (2013), 7th Edition, Pearson Education Inc.
- Introductory Statistics with R – Peter Dalgaard (2008), Second Edition, Springer. ISSN: 1431-8784, ISBN: 978-0-387-79053-4

Session Plan

Session No	Topic	
1	Introduction to Statistics	
2	Descriptive Statistics	
	a	Measures of Central Tendency
	b	Measures of dispersion
3-15	Foundations of Inferential Statistics	
	a	Probability and probability distributions
	b	Sampling and sampling distributions
	c	Estimation and testing of hypothesis
	d	Power analysis
16-17	Chi-Square and ANOVA	
18-20	Measures of Association	
21-22	Regression	
23	Non parametric methods	
24	Project/ Term paper presentation	

Grading criteria

Class quizzes/tests : 40%

Project : 50%

Class participation : 10%

Grading Scale

Letter Grade	Grade Description	Grade Point	Range of marks (%)
O	Outstanding	10	10

A+	Excellent	9.5	9.5-9.9
A	Very Good	9	9-9.4
B+	Good	8	8-8.9
B	Above Average	7	7-7.9
C	Average	6	6-6.9
P	Pass	5	5-5.9
F	Fail	0	
FA	Failed due to lack of attendance	0	

Faculty reserves the right to change the schedule and/or procedures for grading this course. However, such changes will be duly communicated to the participants.

Written Work:

All written work for this class should be typed, formatted and grammatically correct.

Academic Misconduct:

Plagiarism is the use of another person's words without proper citation. Because the writer represents these words as his or her own, plagiarism is the academic equivalent of theft. Plagiarism will not be tolerated in this class or at University. In accordance with the University Code of Academic Misconduct, plagiarism in any form will result in an "F" for this course and possible expulsion from the University. Cheating on exams carries similar penalties. If you have any doubt about the possibility of plagiarism in your work, see me before submitting it.