DE LA SALLE UNIVERSITY MANILA COLLEGE OF SCIENCE Mathe atics Depart ent

SYLLABUS

COURSE CODE	MSS M	
COURSE TITLE	Multivariate Analysis	
CLASS DAY TIME		
ROOM		
NAME OF FACULTY		
COURSE CREDIT	units	
CONTACT NO DEPT	loc	
TERM SCHOOL YEAR		

COURSE DESCRIPTION

This course ai s to present an overview of the theory and application of ultivariate ethods Specifically this course deals with principal co ponent analysis factor analysis cluster analysis ulti di ensional scaling ultivariate analysis of vari ance discri inant analysis canonical correlation analysis and other ultivariate techniques

PREREQUISITES:

Theory of Statistical Inference and Introduction to the Theory of Linear Models

COURSE OBJECTIVES

- Appreciate ultivariate statistical ethods and the i portance of their underlying assu ptions that are needed for their appropriate use
- De onstrate how ultivariate statistical ethods are used in odeling and decision aking using real life situations
- Be aware of the proper uses and applications of ultivariate ethods in any other fields such as business finance econo ics social science psychology biology edicine and engineering a ong others
- Exhibit values like
 - cooperation through group study
 - honesty by clai ing credit only for the work he has done
 - patience perseverance and diligence
 - faith by doing what is right and giving his best in perfor ing any assigned task
 - self reliance by being able to solve proble s independently

/Activities Meeting	Topic/ Subtopic	Learning Strategies /Activities	Week/ Meeting
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Topic/ Subtopic	Learning Strategies /Activities	Week/ Meeting
I I I I I I I I I I I I I I I I I I I	Proble Set Co puter Lab Exercises	

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Topic/ Subtopic	Learning Strategies /Activities	Week/ Meeting
Final Output		Hours

TEACHING STRATEGIES/METHODOLOGY

Lecture Report SAS Exercises

REQUIREMENTS OF THE COURSE

Exa inations Reports SAS outputs with discussions Learning Output critique of a paper

TEXTBOOKS

- Everitt Brian and Hothorn Brian An Introduction to Applied Multivariate Analysis with R electronic resource New York NY Springer New York
- Fichet Bernard Piccolo Do enico Verde Rosanna and Vichi Maurizio Analysis for Co plex Data Structures electronic resource Berlin Heidelberg Springer Berlin Heidelberg
- Grisso Robert J and Ki John J Effect Sizes for Research Univariate and Multivariate Applications
 New York Routledge

Graduate Syllabus

- StatSoft Inc Electronic Statistics Textbook Tulsa OK StatSoft eb
- Lock R
 http www.statsoft.co textbook
 Resources in teaching Statistics fro http it stlawu edu rlock tise onepage ht 1

FACULTY OUTPUT

Janairo Jose Isagani B Co Fru encio F Carandang VI Jose Santos R and A alin Divina M Sequence dependent cluster analysis of bio ineralization peptides Zeitchrift Fur Naturforschung C (A Journal of Biosciences) ISSN c pp Palisoc Shirley T Natividad Michelle T Co Fru encio F and Kaw Kevin Anthony Y Morphological thickness and electroche ical analyses of spin coated Ru NH Nafion fil s Optoelectronics And Advanced Materials – Rapid Communications Vol No July August р Abolencia Jesper L Quipit Jr Ananias G Leong Robert Neil F and Co Fru encio F Ordinal Regression Analyses of Breastfeeding Duration in the Philippines International Journal of Philippine Science and Technology, 8(1), 22-26. Angkiko, Lorraine Christelle B., Diaz, Priscilla A., Robert Neil F., and Co, Frumencio F. (2014). Biosurveillance of Measles using Control Charts: A Case Study using National Capital Region Laboratory Confirmed Measles Counts from January 2009 to January 2014. The Philippine Statistician, 63(2), 31-49. Chan, Lailani D., Putong, Ilene Renee L., and Co, Frumencio F. (2014). Analysis of an SEIRS Compartmental Model for Tuberculosis in Quezon City from 2007 to 2011. The DLSU Mathematics Inbox, 1(2),67-79. Beltrano, ()-3.5012(S)0.713207(.54s4(a)-7(i))38.9272(o)-7(m)3(r)2.71284(a)-7.00166(n)-7.02(B)-nusing Na

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Dr Jose Santos R Carandang VI Dean College of Science