DE LA SALLE UNIVERSITY – MANILA
COLLEGE OF SCIENCE
Mathematics Department

SYLLABUS

COURSE CODE	MSS513M
COURSE TITLE	Introduction to the Theory of Statistical Inference
CLASS DAY & TIME	
ROOM	
NAME OF FACULTY	
COURSE CREDIT	3 Units
CONTACT NO. (DEPT)	(02) 536-0270, (02) 524-4611 loc. 420/413
TERM/SCHOOL YEAR	

COURSE DESCRIPTION
A course on the theory of estimation and hypothesis testing.

COURSE OBJECTIVES
The students will:
1. properly define basic concepts and state well – known results in statistical inference;
2. demonstrate ability to evaluate estimators and construct appropriate interval estimates and tests of hypotheses;
3. show the capability of relating the theory of inference to real-world problems;
- cooperation through group study;
- honesty by claiming credit only for the work he has done;
- zeal and seriousness of intent to learn by participating actively in class discussion, doing his homework regularly and consulting his mentor;
- patience, perseverance and diligence by solving assigned exercises completely including the difficult ones;
- faith by doing what is right and giving his best in performing any assigned task;
- show concern for the community through sharing of know-how and resources during group discussion;
- self-reliance by being able to solve problems independently.

Topic/Subtopic	Learning Strategies/ Activities	Week/Meeting
1. PROPERTIES OF A RANDOM SAMPLE 1.2 Sampling from the Normal Distribution 1.3 Properties of the Sample Mean and Variance 1.4 The Derived Distributions: Student's t and Snedecor's F 1.5 Order Statistics 1.6 Convergence Concepts 1.7 Convergence in Probability 1.8 Almost Sure Convergence 1.9 Convergence in Distribution	Lecture-Discussions Problem Solving Hands-on Exercises	7 hrs

- Roussas, G. (1997). *A First Course in Mathematical Statistics, 2/e*. Academic Press.
- Young, G.A. and Smith, R.L. (2005). *Essentials of Statistical Inference*. Cambridge University Press.

Noted by:

DR. ISAGANI B. JOS
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Dean, College of Science