



SAMUEL ADEGBOYEGA UNIVERSITY
OGWA, EDO STATE
COLLEGE OF MANAGEMENT AND SOCIAL SCIENCES
DEPARTMENT OF BUSINESS ADMINISTRATION

2018/2019 ACADEMIC SESSION

Course Code: BUS 313
Course Title: Quantitative Analysis for Business Decision
Units: 3
Semester: Second
Time: Thursday, 10 – 12pm
Location: Lecture Room II
Lecturer: Dr. S. O. Akintelu: Tel: 08034257868.
E-mail: sakintelu@sau.edu.ng
Office No: Room 2, College of Management and Social Sciences office building

Introduction

Quantitative Analysis for Business Decision is a scientific approach to decision making with special emphasis on the quantification rather than qualification of decision variables. Quantitative analysis basically involves the application of Mathematical and Statistical tools in decision making process that will expose students to the various quantitative analytical techniques such as linear programming, integer programming, goal programming, dynamic programming, input-output models, game theory, markets chains, inventory models, queuing theory, simulation, network flows, transportation models, renewal model amongst others.

B. COURSE OBJECTIVES/GOALS

Production management is designed to achieve the following objectives:

1. To introduce students to the concept Quantitative Analysis
2. To expose students to business organization and decision making process
3. To guide students through the various types of decision making process.
4. To teach students basic Quantification Analytical techniques such as linear programming, integer programming, goal programming, dynamic programming, input-output models, game theory, markets chains, inventory models, queuing theory, simulation, network flows, transportation models, renewal model

C. COURSE OUTLINE

Week	Topic
1	Introduction to Organization Theory,
2	Decision making, decision making under uncertainty,
3	Decision making under certainty, decision making under risk/conflict,
4	Inventory models,
5	Queuing theory,
6	Game theory
7	Network flows
8	Transportation models
9	Test
10 - 11	Plant, Location and Layout linear programming, integer programming, goal programming, dynamic programming, input-output models,
12	Revision

D. TUTORIALS

Tutorial classes will be organized as the need arises.

E. STRUCTURE OF THE PROGRAMME/METHOD OF GRADING

Attendance.....	5%
Un-announced quizzes.....	5%
Mid-Semester Test	10%
Assignment	10%
Examination	70%

Office Hours: Monday 1:00 - 3:00pm

F. GROUND RULES & REGULATIONS

- 1) University guidelines on attendance requirements will be strictly observed in this course. Thus, attendance as well as participation is a prerequisite and counts for 10 % of students' overall grade.
- 2) No student will be allowed into the lecture hall 5 minutes after lecture must have commenced.
- 3) Improper and indecent dressing will not be allowed in the lecture hall
- 4) Students are expected to be well disciplined and they should exhibit this through their punctuality at lectures and prompt attendance to class assignments.

G. ALIGNMENT WITH SAU VISION/MISSION/CORE VALUES/GOALS

Samuel Adegboyega University has the vision of becoming a world class university. For this to happen, business administration department must be the flagship.

H. REQUIRED TEXTS

Glyn Davis and Branko Pecar, (2013). Quantitative Methods for Decision Making. Oxford University Press, UK. March 2013.

McGraw-Hill C. (2010). Quantitative Analysis for Decision Making. Volumes 1 & 2, ISBN-10: 069779153X ISBN-13: 9780697791535.