



LANDMARK UNIVERSITY, OMU-ARAN

GEC 591 COURSE COMPACT

COLLEGE : Science and Engineering

DEPARTMENT: Agricultural and Biosystems Engineering

PROGRAMME: Agricultural Engineering

COURSE COMPACT for : Engineering Management (GEC 591)

Course

Course code: GEC 591
Course title: Engineering Management
Credit unit: 3
Course status: Compulsory

Lecturer's Data

- (1) Name of the Lecturer's: Dr. Ojediran, John
Qualification obtained: B.Eng, MSc, Ph.D. RegdEngr COREN
Department: Agricultural and Biosystems Engineering
College: Science and Engineering
E-mail: ojediran. john@lmu.edu.ng
Office location: Dean's Office, First College Building
- (2) Name of the Lecturer: Engr. Akinyemi Banjo
Qualification obtained: B.Eng, MS.c RegdEngr COREN
Department: Agricultural and Biosystems Engineering
College: Science and Engineering
E-mail: akinyemi.banjo@lmu.edu.ng
Office location: A 211, New College Building

Consultation Hours: Mondays (10am-3pm) Tuesdays (10am-3pm) and Fridays (11-1pm)

INTRODUCTION TO THE COURSE

Course Description: This course will enable the students to have general knowledge about the essential skills relevant to managing cross disciplinary engineering and science-based teams in industries. Such teams are typically responsible for new product development, getting innovations to market, developing new technologies, implementing product improvement or establishing or improving organizational infrastructure. Students will be exposed to studies on the fundamental skills and applications of engineering and science management and will be introduced to the relevant business and engineering topics to be successful in this field.

Course Justification: Engineering management is a specialized form of management that is required to successfully lead engineering or technical personnel and projects. Engineering managers typically require training and experience in both general management and the specific engineering disciplines that will be used by the engineering team to be managed. The successful engineering manager must have the skills necessary to coach, mentor and motivate technical professionals, which are often very different from those that are required for individuals in other fields.

Course Objectives: The core objective of the course is to provide the students with the tools and education that will most directly support their success. Another objective is to provide the engineering students with the foundation to help them continue lifelong learning while employed in industry. Further objectives are to teach students about managing technical, business and human performance processes in order to achieve corporate goals; to develop and learn core business fundamentals in areas including economics, negotiations, marketing and decision analysis and risk assessment; and to provide an understanding of marketing risks associated with new products, financing a new venture and legal issues associated with a new project or product. The course is designed to give students the knowledge to measure and evaluate technical, business, and human performance processes in engineering environments.

Course Content: Principles of Management. Industrial group and organization behavior motivation, Industrial Law, legislation on wages trademarks and patents. Law of contract and sales of goods. Liability for industrial injuries. Industrial relations. Trade Unions, employer association, wages bargaining and the role of the state.

Course Expectation:

S/N	GRADING	SCORE(%)
1	<ul style="list-style-type: none"> • Continuous Assessments • C.AI • C.A II (Mid- Semester Test) • C.A III 	<p>7%</p> <p>15%</p> <p>18%</p>
2	Assignment	
3	Practical (Laboratory work)/ Cases Studies	
4	Final Examination	70%
5	Total	100

Course Delivery Strategies: Lecturing method complimented with visual images of some using power point projections

Course Duration: 2 hours weekly

LECTURE CONTENT

Module 1:

WEEK 1: Introduction to management

Objectives: The students at the ends of the lectures for the week should be able to define what they understand by management

Reading List: Industrial Engineering and production Management by Martand Telsang, A publication of S.Chand and Company Ltd

Module 2:

Week 2: Principles of Management

Objectives: The students at the end of the lectures for the week should be able to speak on the principles of management, elements of management

Reading list: Industrial Engineering and Production Management Telsang. A publication of S.Chand and Company Ltd.

Module 3:

Week 3: Level of management

Objectives: The students at the end of the lectures for the week should be able to differentiate between the level of management and their function.

Reading list: Industrial Engineering and production Management by Martand Telsang, A publication of S.Chand and Company Ltd.

Module 4:

Week 4: Organisation Behaviour

Objectives: The students at the end of the lectures for the week should be able to state why Baron's definition is considered to be more elaborate.

Reading list: Industrial Engineering and production Management by Martand Telsang, A publication of S.Chand and Company Ltd.

Module 5:

Week 5: Level of Organization Behaviour

Objectives: The students at the end of the lectures for the week should be able to state the level of organization behavior

Reading list: Industrial Engineering and production Management by Martand Telsang, A publication of S.Chand and Company Ltd.

Module 6:

Week 6: Individual level model of organization behavior

Objectives: The students at the end of the lectures for the week should be able to sketch the various models under this subject

Reading list: Industrial Engineering and production Management by Martand Telsang, A publication of S.Chand and Company Ltd.

Module 7:

Week 7: MID SEMESTER EXAMINATION

Module 8:

Week 8: Functions of management

Objectives: The students at the end of the lectures for the week should be able to state the functions of management how they would handle contemporary issues relating resources management

Reading list: Industrial Engineering and production Management by Martand Telsang, A publication of S.Chand and Company Ltd.

Module 9:

Week 9: Motivation

Objectives: The students at the end of the lectures for the week should be able to state the different definitions of motivation, differentiate between termination and dismissal.

Reading list: Industrial Engineering and production Management by Martand Telsang, A publication of S.Chand and Company Ltd.

Module 10:

Week 10: Legal contract

Objectives: The students at the end of the lectures for the week should be able to state the essential elements of contract that makes it binding

Reading list: Industrial Engineering and Production Management by Martand Telsang, A publication of S.Chand and Company Ltd.

Module 11:

Week 11: Trade Union

Objectives: The students at the end of the lectures for the week should be able to define what they understand by a trade union, their functions and role of a healthy industrial relation to the success of an organization and economy.

Reading list: Industrial Engineering and production Management by Martand Telsang, A publication of S.Chand and Company Ltd.

Module 12:

Week 12: Introduction to collective bargaining

Objectives: The students at the end of the lectures for the week should be able to it and state the three types of collectives bargaining.

Reading list: Industrial Engineering and production Management by MartandTelsang, A publication of S.Chand and Company Ltd.

Module 13:

Week 13: Importance of collective bargaining

Objectives: The students at the end of the lectures for the week should be able to understand the importance of collective bargaining

Reading list: Industrial Engineering and production Management by Martand Telsang, A publication of S.Chand and Company Ltd.

Module 14:

Week 14: Core steps in collective bargaining

Objectives: The students at the end of the lectures for the week should be able to categories the five core steps involved in the collectives bargaining process

Reading list: Industrial Engineering and production Management by Martand Telsang, A publication of S.Chand and Company Ltd.

Module 15:

Week 15: REVISIONS

HOD's COMMENT:-----

Name: -----**Signature:** -----**Date:** -----

-

