Course Code: BMGT E3045
Title: Operational Management
Aim: To; (i) Introduce students to the concepts and functions of operations management.
(ii) Provide the knowledge on functions and processes of operations management.

Learning Outcomes:
On completion of this course unit, students should be able to;

- Demonstrate knowledge and understanding of the concepts and functions of operations management.
- Solve the practical problems and interpret the results, which is required for managers of organizations in making decisions.

Content:
Introduction; historical evolution of OM, factors affecting OM today, different approaches in studying OM, production as a system, production as an organization function, decision making in OM. Operations Planning; forecasting in OM, forecasting models, short-range and long-range forecasting, computer software for forecasting, forecasting in small business. Designing and Developing Products and Production Processes; developing new products, improving designs of existing products, process planning and design, technology selections and management, allocating resources to strategic alternatives (linear programming), scheduling. Capacity Planning; measurement of capacity, forecasting capacity demand, economies of scale. Facility Location; factors affecting location decisions, types of facilities and their dominant location factors, integrating quantitative and qualitative factors into location decisions. Facility Layout; manufacturing facility layout, service facility layout. Operations Decisions; Planning production to meet demand, production planning system, independent demand inventory
system, material requirement planning (MRP), just-in-time (JIT) manufacturing, material management and purchasing.

Operations for Productivity; Quality and Reliability; productivity and human behavior, job designing, work study and work measurement, learning curve, employees health and safety, quality control, planning and controlling projects, maintenance management.

Method of Teaching and Learning:
Lectures, Seminars

Scheme of Evaluation:
Examination, Assignments

Recommended Readings:

