

**Faculty of Commerce & Business Administration**

**Operation & Production Management (2)**

**Information :**

**Course Code :** MGT 455

**Level :** Undergraduate

**Course Hours :** 3.00- Hours

**Department :** Department of Finance'

**Area Of Study :**

Defines analytical methods used to support inventory replenishment for the production of goods and services. Operational problems of production systems are examined, including objective/subjective forecasting methods; aggregate planning of work force and production under seasonal demand; and inventory models of EOQ for known and unknown demand. Supply chain management and lean manufacturing concepts.

**Description :**

This course provides an overview of key operational issues and processes used in both service and manufacturing organizations. It also reviews the basic analytic methodologies and tools used to manage the production process.

**Course outcomes :**

**a. Knowledge and Understanding: :**

1 -	Use the steps in the production planning and control process to create a plan for production and procurement of materials with the objective of meeting forecasted demand using available capacity.
2 -	Select, apply and evaluate demand forecasting methodologies
3 -	Select, apply and evaluate inventory control policies.
4 -	Create a plan from a manufacturing firm's perspective for interfacing with both suppliers and customers.
5 -	Explain product design and process design, the factors that influence them and how they impact one another.

**b. Intellectual Skills: :**

1 -	Decide on appropriate operational models to analyze problems.
2 -	Establish and supply appropriate techniques to solve problems
3 -	Draw a defined conclusion using operational and economic arguments with proper rigor.

**Course Topic And Contents :**

Topic	No. of hours	Lecture	Tutorial / Practical
Introduction to operation management .	3	3	1
Inventory Management	3	3	1
Aggregate planning	3	3	1
Material requirements planning	3	3	1
JIT and lean operation	3	3	1

### **Course Topic And Contents :**

<b>Topic</b>	<b>No. of hours</b>	<b>Lecture</b>	<b>Tutorial / Practical</b>
Midterm	2	2	1
Quality control charts	3	3	1
First Midterm	2	3	1
Project Management	3	3	1
Supply chain management	3	3	1
Second misterm	3	2	1
Revison	2	3	1

### **Teaching And Learning Methodologies :**

Text book

Related published works

- Examples and case studies

Individual and group assignment

### **Course Assessment :**

<b>Methods of assessment</b>	<b>Relative weight %</b>	<b>Week No</b>	<b>Assess What</b>
1st Mid-Exam	20.00	6	
2nd Mid-Exam	20.00	11	
Attendance & Participation	20.00	13	
Final Exam	40.00	16	

### **Course Notes :**

Brief Lecture Notes

PowerPoint Slides

### **Recommended books :**

Chase and Aquilano (2001). Operations management for competitive advantage. 9th .McGraw-Hill Higher

### **Periodicals :**

- Periodicals

### **Web Sites :**

Web sites etc

International journal of operations and production management.

<http://www.poms.org>