

**Faculty of Commerce & Business Administration**

**Production & operation Management (1)**

**Information :**

**Course Code :** MGT 355

**Level :** Undergraduate

**Course Hours :** 3.00- Hours

**Department :** Department of Business Information Technology

**Area Of Study :**

Upon successful completion of this course, the student should be able to:

- Generate a plan to increase productivity through the effective use of labor, capital and management
- Modify the production / operation department in order to improve the overall performance of the organization.
- Take decisions in a professional manner and perform efficiently the five main functions of management: planning, organizing, staffing, leading and controlling

**Description :**

Production Planning and Inventory Control, Aggregate Planning, Line Balancing, Job Shop Scheduling, Inventory Control. Forecasting, Quality Management, Product and Process Design Management, material Requirement Planning, maintenance Management, contemporary Manufacturing Systems, Just In Time Systems, Group Technology

**Course outcomes :**

**a.Knowledge and Understanding: :**

1 -	Exhibit a broad and deep knowledge of advanced core areas of production and operations management
2 -	Relate basic and advanced quantitative methods to applied topics.
3 -	Prove understanding of advanced analytical methods, both theory- and model based.
4 -	Demonstrate understanding of relevant mathematical and statistical techniques
5 -	Show a deeper understanding of issues of operations in manufacturing and service organizations

**b.Intellectual Skills: :**

1 -	Relate complex ideas to solve problems
2 -	Work with abstract concepts and in a context of generality
3 -	Reason logically and work analytically
4 -	Understand the contexts in which problems are addressed

**c.Professional and Practical Skills: :**

1 -	Decide on appropriate operational models to analyze problems
2 -	Establish and apply appropriate techniques to solve problems
3 -	Defend conclusions using operational and economic arguments with proper rigor

**d.General and Transferable Skills: :**

1 -	Apply mathematical, statistical and graphical techniques in an appropriate manner
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2 -	Communicate effectively and clearly in written and oral formats
3 -	Commence independent study and carry out research

**Course Topic And Contents :**

Topic	No. of hours	Lecture	Tutorial / Practical
Introduction to Operations Management	3	3	1
Competitiveness , Strategy, and Productivity	3	3	1
Forecasting	3	3	1
Product & Service Design	3	3	1
Capacity Planning	3	3	1
1st mid-term exam	2	3	1
Process Selection and Facilities Layout	3	33	1
Design of Work System	3	3	1
2nd mid-term exam	2	3	1
Location Planning and Analysis	3	3	1
Management of Quality	3	3	1
Revision	3	3	1

**Teaching And Learning Methodologies :**

Data show and computer in lectures
Demonstration videos
. Group Projects
Self-learning
Case Studies

**Course Assessment :**

Methods of assessment	Relative weight %	Week No	Assess What
Attendance & Participation	20.00	13	
Final Exam	40.00	16	
Mid-Term 1	20.00	6	
Mid-Term 2	20.00	11	

**Books :**

Book	Author	Publisher
Operations Management (Stevenon)	William J. / Stevenon	McGraw Hill

**Course Notes :**

Handouts
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**Recommended books :**

Chase and Aquilano (2001). Operations Management for Competitive Advantage .9th ed. McGraw – Hill Higher.

**Periodicals :**

Periodicals

**Web Sites :**

Web sites,  
- International Journal of Operations and Production Management  
- <http://www.poms.org>