

Branch Name:	Mechanical Engineering (Production Technology)
Program Code:	ET209
Course Name:	Production & Operation Management - Practical
Course Code:	2ET2090203P
Pre-requisite Course:	Basics of Operation Management

Course Objective:

1. This course provides the knowledge and practice regarding Production Planning and Controlled by Operation Research techniques.
2. This course gives practice through various Management and Operation Tools for Improving Quality and Quantity.

Teaching and Examination Scheme:

Credit	Teaching Scheme Hours per week				Evaluation Scheme (Marks)								
					Theory (Marks)				Practical (Marks)				Total (Marks)
	SEE		CCA		SEE		CCA						
	L	T	P	Total	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
1	-	-	2	2	-	-	-	-	10	25	10	25	50

Subject Contents:

Sr. No	Detail of Practicals	Contact Hours
1	To study about Concept of Operation Management.	04
2	To study about Production Planning Controlling Methods.	02
3	To study about Maintenance Management.	02
4	To study about Materials Management.	02
5	To study about QC tools.	02
6	To study about TQM and TPM.	02

List of References:

1. Hop W, Spearman M; Factory Physics; TMH
2. Charry S.N.; Production & Operations Management; TMH.
3. Chase, Acquilino, Production & Operations Managment, TMH.
4. Eilon S. Production Planning and Control, McMillon Pub.
5. Vollmann; Mfg planning and control for SCM; TMH

6. Nahmias Steven; Production and Operations analysis; TMH
7. BediKaniska; Production and Operations Management; Oxford Pub
8. Dobler& Lee, Purchasing & Materials Management, PHI.
9. Chittle A.K., Gupta R.C. Materials Management, PHI.
10. Monk Joseph; Schaum's outline of Operations Management; McGraw Hill.

Course Learning Outcomes (CLO): On completion of this course, the students will be able to:

CLO	Description	Bloom's Taxonomy Level
CLO1	Acquire the knowledge and understanding regarding Production planning and controlled required for industry to analyze the engineering problems.	1 Remembering 2 Understanding
CLO2	Utilize the operation research techniques as a problem-solving technique.	3 Applying
CLO3	Apply various Management and Operation Tools for Improving Quality and Quantity of Product.	3 Applying
CLO4	Apply the concept of operations management in manufacturing and service sector and will be able to plan and implement production and service-related decisions.	3 Applying 4 Analyze
CLO5	Able to plan production schedules and plan resources (material and machine) required for production.	5 Evaluating
CLO6	Able to apply the concepts of purchase, stores and inventory management and analyze and evaluate material requirement decisions	6 Creating

Mapping of CLOs with POs & PSOs:

Course Learning Outcomes	Program Outcomes (POs)												Program Specific Outcomes (PSOs)	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CLO1	M			H								L		M
CLO2			M		H						M		M	
CLO3		H					H							L
CLO4		M			M							M		M
CLO5	M			H			M				M		H	
CLO6		M			M				M		M		M	

H: High, M: Medium, L: Low