Programme: Bachelor of Management Studies Semester: IV								
Course: Production and Total Quality Management			Code:	Code:				
Teaching Scheme Evaluation Scheme								
Lecture	Practical	Tutorial	Credits	Theory Practical				
				Internal	Externa	1	Internal	External
60	Nil	Nil	04	40 Mark	60 Marl	KS	Nil	Nil
		•	·					
Internal Co	mponent							
Class Test			Presentation	IS Class Participation				
20 Marks			20 Marks			Ni	1	
Learning C	bjectives							
 To fam 	iliarize students	s with the fund	lamental conc	epts of prod	luction, m	ater	rial managem	ent and
quality	management.							
 To enal 	ble students to a	analyse and ap	ply basic qua	lity manage	ment prin	cipl	es	
• To ana	lyse the interde	pendencies bet	ween product	tion and qua	lity mana	gen	nent	
• To crit	 To critically examine the strategies of quality management and formulate suggestions for 							
improvement of quality								
Learning C	outcomes							
 Learne 	r will be able to	explain the fu	indamental co	ncepts of pi	oduction.	ma	iterial manage	ement, and
quality	management, c	lemonstrating	a comprehens	ive understa	anding of	thes	se core areas.	CC · 1
 Learne 	r will be able to	apply basic q	uality manage	ement princi	ples in va	1101	is scenarios, e	effectively
utilizin	g the acquired i	knowledge to a	address practi	cal challeng	es and im	piei	nent quality of	control
	es.	design strates	ica for intern	ating produc	tion and	~~~~	lity monogon	ant
 Learner will be able to design strategies for integrating production and quality management 								
processes Learners will be able to critically evaluating existing practices and formulating innecestive solutions								
- Learners will be able to critically evaluating existing practices and formulating innovative solutions to enhance quality standards and drive continuous improvement.								
to emance quarty standards and drive continuous improvement.								
Pedagogy								
PPTs Case studies Group discussions Classroom Activity Videos Role plays & Simulations								
Research papers. News articles etc.								
researen papers, rie as arteres eur								

Detailed Syllabus Plan					
Mod ule	Module Content	Module wise Pedagogy/Activity Used	Durati on of Modul e	Reference Book	
Ι	 Introduction to Production Management Introduction to Operations and Operation Management Manufacturing Systems: Continuous, Intermittent 	 Group Discussions Debate Video Presentations Lecture Case Analysis 	12	Operations Management Theory and Practice, B. Mahadevan, Pearson 2015, 3 rd Edition <i>Part I, Chapter 1</i>	

 Production systems and Jumbled Flow systems Relation of Production with other Functions like design function, purchase function An Introduction to Types of Manufacturing Processes – Casting, Forging, Joining / Welding. 		Part III, Chapter 9
 Production Capacity – Measuring capacity, Process Analysis, Capacity Analysis, Capacity Planning issues in Service Organisations. Aggregate Planning Techniques for Aggregate planning Master Scheduling Master Scheduling Process 		Operations Management Theory and Practice, B. Mahadevan, Pearson 2015, 3 rd Edition <i>Part III, Chapter 8</i>
 Product design and development Product Development Process Phases in Product Design and Development Phases in Service Design Process Facility/ Plant Location Factors affecting Plant Location Decision Plant Layout, difference between various types of Plant Layout (Product layout, Process layout, Cellular layout, Static layout) Plant maintenance. 		Operations Management Theory and Practice, B. Mahadevan, Pearson 2015, 3 rd Edition Part III, Chapter 11

	Production Planning and Control			Operations Management Theory and Practice, B. Mahadevan, Pearson 2015, 3 rd Edition Part II, Chapter 6 Part III, Chapter 9
П	Materials Management Procurement Process Purchase Management Importance of purchasing, various R's of Purchasing Concept, Objectives, Importance of materials management Introduction to Demand Forecasting 	 Simulation News & Article reading Lecture method Group activities Case Analysis 	9	B. Mahadevan, Pearson, Third Edition Part IV, Chapter 14 Part IV, Chapter 16 -16.3
	 MRP – Materials Requirement Planning Brief introduction of Inventory management: EOQ calculation. Inventory related Concepts: Reorder Level, Lead Time, Safety Stock 			B. Mahadevan, Pearson, Third Edition Part IV, Chapter 14
III	Introduction to Productivity • Concept of productivity • Various ways/modes of calculating productivity – DJ Sumanth Model. • Ways to improve productivity • Types of Productivity: Partial Productivity and Total Productivity (Simple direct problems relating to productivity, partial productivity, partial productivity) • Competitiveness, Strategy - Strategy formulation Operations Strategy	 Lecture method Panel discussions Role Play Video presentation Case Discussions 	12	

 Transforming Strategy into Action – The Balanced Scorecard Principles of Ergonomics in Manufacturing and Service Industries 		Operations Management, William J Stevenson, McGraw Hill, 13 th Edition
 IV Quality Management Introduction to Quality, Characteristics of quality Product and Service Quality dimensions Philosophies regarding Quality: Deming's contribution to quality –Deming's 14 Points for management, Juran's philosophy regarding quality Lean Management - JIT Quality Control & Quality Assurance Quality Tools and Concepts: Quality Circles, Fish Bone Diagram, Poka Yoke, KanBan TQM and Elements of Total Quality System, Mura, Muri and Muda Kaizen Cost of Quality Six Sigma Methodology Attaining ISO Standardisations - quality standards such as ISO 9000, QS 9000 and other emerging standards 	 Lecture method Group Discussions Debate Group activities Brain storming Case Discussions 	12 B. Mahadevan, Pearson, Third Edition Part III, Chapter 12 Operations Management, William J Stevenson, McGraw Hill, 13 th Edition

Suggested Reading

Textbook:

- 1. Operations Management Theory and Practice, B. Mahadevan, Pearson 2015, 3rd Edition
- 2. Operations Management, William J Stevenson, McGraw Hill, 13th Edition

- 3. Operations Management, William J Stevenson, McGraw Hill, 14th Edition
- Production and Operations Management by Chary, S.N, New Delhi McGraw Hill Education 2019, 6th Edition
- Production and Operations Management Systems, Sushil Gupta and Martin Starr, CRC Press, 2014
- 6. Production and Operations Management, R. Panneerselvam, PHI Learning Private Ltd, 2012, Third Edition

Reference Books:

- Operations and Supply Chain Management The Core, F. Robert Jacobs, Richard B. Chase, McGraw Hill Publication, 2023 6th Edition
- 2. Operations Management, Nigel Slack, Alistair Brandon-Jones, Nicola Burgess, Pearson 2022, Tenth Edition
- Operations Management Processes and Supply Chains, Lee. J. Krajewski, Manoj Malhotra, Larry P. Ritzman, Pearson, 2016, 11th Edition

Prepared by:

Approved by:

Signature Head of Department Management Signature (Principal)

Total Marks allotted: 100 marks

a) Details of Continuous Assessment (CA)

40% of the total marks per course.

Marks allotted for CA is **40 marks**. Breakup of the 40 Marks is as follows:

Continuous Assessment	Details	Marks
Component 1 (CA-1)	Internal class test (online or offline)	20 marks
	MCQs/Explain the concepts/Answer in brief/Case	
	study or application based questions.	
Component 2 (CA-2)	Presentations/Project Work/ Viva-Voce/ Book	20 marks
_	Review/ Field visit & its presentations/	
	Documentary filming/ Assignments/Group	
	Discussions Etc.	

b) Details of Semester End Examination (SEE)

60% of the total marks per course. Marks allotted for SEE is **60 Marks.** Duration of examination will be **Two Hours.**

QUESTION PAPER FORMAT

All Questions are compulsory

Q. No.	Particulars	Marks
Q.1.	Answer in Brief (Any 2 out of 3)	12
	a)	
	b)	
	c)	
Q.2.	Answer in Brief (Any 2 out of 3)	12
	a)	
	b)	
	c)	
Q.3.	Answer in Brief (Any 2 out of 3)	12
	a)	
	b)	
	c)	
Q.4.	Answer in Brief (Any 2 out of 3)	12
	a)	
	b)	
	c)	
Q.5.	Read the following Case Study and answer the questions that	12
	follow.	

Signature

Signature

(Program Chairperson & Vice Principal)

(Principal)