NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI

COURSE OUTLINE TE	MPLATE		的 医电影 医多种			
Course Title	MANUFACTURING MANAG	EMENT				
		-				
Course Code	PR 625	No. of Credits	3			
Denortment	Production	Faculty	Dr.S.Prasanna			
Department	Engineering	1 douity	Venkatesan			
Pre-requisites						
Course Code			2			
Course						
Coordinator(s)						
(if, applicable)						
Other Course		Telephone				
Teacher(s)/Tutor(s)		No.				
E-mail						
Course Type	e Type					
COURSE OVERVIEW						
Manufacturing Mana	agement deals with the	decision mal	king approaches to handle the			
			service system. The objective is			
to produce and deliver the goods/services according to specifications, in the right amount, right						
time and at a right cost	with a minimum environm	ientai impact.				
COURSE OBJECTIVE	S					
1 To enable the studen	ats to understand the role o	f manufacturi	ng management in organizational			
1. To enable the students to understand the role of manufacturing management in organizational decision making.						
2 To study the strates	oic tactical and operation	al decision m	aking tools in order to model a			
manufacturing or a serv	vice system.					
manufacturing of a ser	vice by sterm					
3 To understand the a	application of manufacturi	ng manageme	ent policies and techniques to the			
manufacturing and serv	vice organizations.					
Course Outcomes	0.8		Aligned Programme			
Jourse Guttonines			Outcomes (PO)			
1. Understand the ro	le of manufacturing mar	nagement in	PO 3, PO 5 and PO 7			
organizational decision	n making.					
2 Build and analyze	quantitative models for or	ganizational				
decision making	The second secon					
3. Apply tools for model	ing of complex systems	a a				
5pp./ 20015 111 Mount			78.50			

S.N	o. Week	(Topic	Mode of Delivery
		Nature	· ·	•
1	1	Strategic	of production- Tactical and nal decisions.	Chair and tark
	2	General	discrete location- problems -features	Chalk and talk
	3		ocation models	Chalk and talk
4		SCM, Flo	ain management and w in supply chains, s in supply chain	Chalk and talk
	5	Supply ch	ain facility location	CI. II
2			Test I	Chalk and talk
	6	6 Aggregate production planning - Heuristics		Chalk and talk
	7	Linear mod	els and transportation	Chalk and talk
	8	Inventory models-mod	management- EOQ dels with price breaks	Chalk and talk
	9	Operations	scheduling, CDS and ristics- Assembly Line	Chalk and talk
	10	Solving no like GAMS,	odels using software WinOSB	Tutorial/lab
3			Test II	
	11	Project Scl sizing in MR	neduling, MRP, lot	PPT
5	12	Quality man	agement	PPT
6	13	Assessment	thru seminars	Seminar presentation
7		'	End semester	
ahe.	of Assessment			
No.	Mode of Assessment	Week/Date	Duration	% Weightage
	Test 1	End of 5 week	1hr	
	Test 1	End of 10 week		20
	Seminar	End of week 12		20
	End semester	End of week 12	10 min./student	10
		Life of week 13	3hr	50

ESSENTIAL READINGS: Textbooks, reference books Website addresses, journals, etc.

Buffa., "Modern Production Management", John Welley, 1983.

Douglus C.Montgomery, Introduction to statistical quality control, 2nd Edition, Jhon Wiley & sons, 1991

Hax and Candea., "Production and Inventory Management", Prentice Hall, 1984. Sunil Chopra, Peter Meindl, Supply Chain Management: Strategy, Planning and Operations-, Prentice Hall India, 3rd ed. (2007)

http://nptel.ac.in/courses/110106045/

COURSE EXIT SURVEY (mention the ways in which the feedback about the course is assessed and indicate the attainment also)

Course Exit survey will be collected at the end of the semester before the start of semester examination through online. Students can log in their MIS account to give the feedback. Midsemester anonymous feedback shall be collected to improve the teaching-learning process. Apart from this, students can share feedback during class committee meetings.

COURSE POLICY (including plagiarism, academic honesty, attendance, etc.)

Attending classes regularly and continuously is required for the students to understand the concepts.

Participation in the discussions is mandatory during the tutorial classes.

If any student is not able to attend any of the continuous assessments (1 and 2) due to genuine reason, student is permitted to attend a retest with 20% weightage. A candidate may appear for retest only once. Attending the end semester is a must.

ADDITIONAL COURSE INFORMATION

eg.: The Course faculty is available for consultation based on prior appointment to his email at - prasanna@nitt.edu

FOR SENATE'S CONSIDERATION

Course Faculty

CC-Chairperson 4 4 W

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