Course title						. 14	T 2/2 1 /	2)	
and code	IE 214 Industrial Operations Management-I 3(3,1,0)								
Catalog Data									
Prerequisite									
Co-requisites	STAT 324								
Level	6								
Textbook	Operations Management, by J. Heizer and B. Render, 10 th Ed., Prentice Hall (2010).								
Reference									
	Production Planning and Industrial Scheduling, Examples, Case studies, and applications. By D. Sule 2 nd edition, CRC press, (2008).								
Learning	1) Understand industrial engineering and operations management								
outcomes	2) Understand productivity and utilization concept								
Objectives	3) Understand forecasting and use several forecasting techniques								
	4) Understand capacity planning								
	5) Understand the function of inventory and formulate basic inventory models								
	6) Understand material requirement planning concept								
	7) Work in teams and communicate effectively through class discussions and presentations								
Topics to be 1 Topics to be Covered									T
covered:	List of Topics							No of Weeks	Contact hours
	Introduction to Industrial Engineering & Operations Management: what is operations management? Differences between goods and services, productivity measurement, productivity variables, new trends in operations management Forecasting: what is forecasting? Types of forecast, importance of forecasting, forecasting approaches, correlation analysis, monitoring & (3) [12]								
	controlling forecast								
	Capacity planning: Design and effective capacity, break even analysis, bottleneck analysis Inventory management: functions of inventory, inventory models,							(3)	[12]
								(2)	[10]
	probabilistic models, reorder point and safety stock, Material requirement planning: MRP structure, bill of material, time phased planning, lot sizing techniques. (3) [12]								
Total contact	Lecture: Tutorial: Laboratory: Drosticol/Field Otto								
hours per semester		42	14	0		Practical/Field	Ot	her	
Schedule of				<u> </u>					
Assessment	Assessment task (eg. essay,							Propo	ortion
Tasks for	Asse	essment	test, group project,			Week due		of Final	
Students		examination etc.)						Assessment	
During the Semester		1	Midterm1			Within the 7 th week		15%	
		2	Midterm2			Within the 13 th week		15	5%
		3	Attendance and class			Continuous evaluation		10%	
		participation and home work 4 Quiz			Surprise quizzes		10%		
		4	Lecture/Tutorial assessment		Each lecture		10%		
	5 Final Exam As scheduled by the registrar				gistrar	40%			
Project work	Independent group projects for case studies covering the course topic								
Computer Usage	Computer use covers case studies								
Estimated	3 credit hour or 100%.								
Category									
Content	Atookh Un Pohman								
Prepared by	Ateekh-Ur-Rehman								
Preparation Date	10/5/2012G								
Julio	I								