MGE-507: Production and Operations Management **2 Credits**

Prerequisites for the course:	Nil	
Objective:	To create an awareness of functions of Production and Operations Management , Quality Management and Productivity Management	
Content:	Classification of operations; Process types in manufacturing and Services, Plant layout & Location; Production Planning and Control. Quality Management, Quality Control, Tools for improving Quality, TQM, Quality Assurance, Six Sigma Concept. Productivity Improvement Techniques, Work study and Time Study, Maintenance policies for facilities and equipment, Preventive versus breakdown maintenance, Procedure for maintenance, total productive maintenance (TPM). Introduction to Operations Research and Linear Programming. Transportation and Assignment Models, Network Analysis including PERT and CPM. Decision Theory and Decision Tree Model	5 Hours 5 Hours 10 Hours 10 Hours
Pedagogy:	Lectures/ tutorials/laboratory work/ field work/ outreach activities/ project work/ vocational training/viva/ seminars/ term papers/assignments/ presentations/ self-study/ Case Studies etc. or a combination of some of these. Sessions shall be interactive in nature to enable peer group learning.	
References/Readings	1. Adam Jr Everetl E. R J – Production and Operations Management (Prentice-Hall, 1992), latest Edition. 2. Krajewski, Lee J. and Larry P. Ritzman; 'Operations Management: Strategy and Analysis'; Pearson Education India; Latest Edition. 3. Taha H- Operations Research- An Introduction (Prentice-Hall, 7th edition), Latest Edition 4. Bedi, Kanishka Production & Operations Management; Oxford University Press; Latest edition 5. Krishnaswamy, K. N. 'Cases in production / Operations Management'; Prentice Hall of India Private Ltd., New Delhi, Latest edition	
Learning Outcomes	1. An ability to take business decision issues in the domain of Production Operations	