

Course title: Production and Operations Management					
Course code: PPM 187		No. of credits: 3		L-T-P: 35-07-00	
Learning hours: 42					
Pre-requisite course code and title (if any): NA					
Department: Business Sustainability					
Course coordinator: Dr. Vivek Soni			Course instructor: Dr. Vivek Soni		
Contact details:					
Course type: Core			Course offered in: Semester 2		
Course description:					
<p>Any or every organization is a system of operations, whether or not called 'operations'. Ultimate goal or purpose of such a system being production of goods and/or services and to carry them till the point of time and place of consumption. Therefore operations management involves everything an organization does and hence every manager is an operations manager.</p> <p>Production and Operations Management (POM) focuses on carefully managing the processes to produce and distribute products and services." Conventionally speaking Major, overall activities under POM, include product creation, development, production and distribution. Major functions of POM include Managing purchases, Inventory control, Quality control, Storage, Logistics and Evaluations. Focus will be efficiency and effectiveness of the processes.</p> <p>Keeping in view profile of the participants in this batch, this course will chart upon a different approach, specially customized for this particular batch of students. Production and Operation Management is a subject relevant to all levels of the hierarchy in an organization, but in this course, in addition to covering usual topics like routine functions of POM which are relevant mainly for the operator level staff/officials; a major amount of effort and time will be spent on high level functions and sub-functions of POM relevant to creating or gearing up the Organizational set-up to the Global standards.</p>					
Course objectives:					
<p>One of the most critical areas for success in any business enterprise is how Production and Operations are managed. In the 'Productions and Operations Management' course an attempt will be made to integrate the courses studied by the students like statistics, economics, finance, organizational behaviour and strategy into a consolidated production and operation related decisions</p>					
Course contents					
Module	Topic	L	T	P	
1	Modul 1: Generation of Four key deliverables:			0	
	➤ Review of existing Organisation set-up for 'Production and Operations'	1			
	➤ Best Practices of Indian and International companies	1			
	➤ Re-designing the set-up to global standards				
	➤ Support Systems & Policies necessary for such an International set-up.	1			

	Module 4: Core functions and support-functions to be discussed in details: <ul style="list-style-type: none"> ➤ Core Operation 1 : Production Operations Defining operating philosophy Planning production volumes and capacities Analysing Operating facilities ➤ Core Operation 2: Maintenance Developing maintenance planning and strategy Executing maintenance activities Monitoring maintenance performance ➤ Support Operation 1: Contracts & Procurement Defining outsourcing philosophy Developing sourcing strategy Selecting suppliers Managing suppliers Reviewing supplier performance ➤ Support Operation 2: Supply Chain Management Managing supply chain Managing orders Managing inventory ➤ Support Operation 3: Logistics Managing warehouse Managing transport 	4 4 3 2 2	2 2 1 1 1	
	Module 5: Case Studies <ul style="list-style-type: none"> ➤ Strategic Considerations in Internationalization Choice of Markets Entry Options : Rapid / Beachhead Challenges ➤ Managing Global Competitiveness: Identifying Bottlenecks in POM 	2 2		0
	Total	35	7	0
Evaluation criteria:				
	PARAMETER	CREDIT		
	▪ Class Participation	15%		
	▪ Individual assignments on mapping and redesigning different organizations on specific new models introduced in the class and/or pre-announced quizzes/class tests.	30%		
	▪ Presentation on any one pre-approved core or support function of POM	25%		
	▪ End-semester examination	30%		

Learning outcomes:

After completing the course the participants shall develop an understanding on how to create a production entity with focus on -

- Production Base
- Financial (Cost) Performance
- Technical and Operational capabilities
- Human Capabilities

Pedagogical approach:

Discussions on the aforementioned topics, with a **continuous case study** in the form of mapping across the new **models of Strategy, Pyramidal Model of Product and Activity spread and Four Stage Analytical model** of different core and support POM functions. As the course will proceed, participants will be expected to map their own organizations along with and discuss the same in subsequent sessions leading to the final presentation. Participants in groups (to be formed in the first session) will also select and get approved any one **core or support POM function** and develop a presentation based on the teachings of the prescribed text book and including examples from his/her own industry/organization w.e.f. second week of the course.

Materials:

Suggested readings : 1) B Malakooti (2014), 'Operation and Production System with Multiple Objectives', Wiley
2) S N Chary (2013) . 'Production and Operation Management', 5th Edition, Tata Mac Graw Hill

Additional information (if any):NA

Student responsibilities:

Attendance, feedback, discipline: as per university rules.

Course reviewers: 1) Dr. N M Ahuja, ONGC,
2) Mrs. Pomila Garga, ONGC Videsh Limited (OVL)