

Batch 2018-20

Operations Management - II (OPM 201)

Instructors

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Practitioner

TBD

Course Description

The students of this course are already introduced to the Operations Management function, strategy and key infrastructure and information inputs required for Operations. The objective of this course is to teach students the tools necessary to plan the supply and production of products in order to fulfill the demand. Students will also be exposed to various methods of estimating the demand.

#	Learning goals	Learning Outcomes	Learning Assessment method
	The course aims to impart	At the end of the course the students should be able to	The outcomes would be assessed through
1	Functional Proficiency & Integration	<u>Knowledge</u> <ul style="list-style-type: none">• Understand various operations planning stages and the techniques involved• Ability to balance the trade-offs between customer service levels and the cost of serving <u>Skills</u> <ul style="list-style-type: none">• Ability to use various Inventory & Material Requirement Planning models to generate supplier and production plans	<ul style="list-style-type: none">• Exams• Class Participation • Exams• Class assignments
2	Analytical and Critical Thinking Ability	<ul style="list-style-type: none">• Ability to choose suitable resource planning tools for different planning horizons	<ul style="list-style-type: none">• Class participation• Class assignments• Exams
3	Communication Skills	<ul style="list-style-type: none">• Ability to articulate the decisions involving Planning of Operations• Present effective business cases	<ul style="list-style-type: none">• Class participation• Class assignments

Pedagogy

Keeping in view the varied learning styles of each student the course will be delivered through combination of different teaching methods. The overall focus of the delivery would be participant centric learning (PLC). Few of the pedagogical tools to enable PLC are; Case Studies, Class Room Discussions, and Spreadsheet Modeling. In order to expose the students to real world perspective of Operations Management, few of the modules of the course will be delivered by industry professionals.

Assessment

The course will follow a continuous assessment and feedback mechanism so that the students gain opportunities to test themselves intermittently and make improvement in the areas of weakness. The assessments would be done through a combination of class assignments, participation in classroom discussions, and quizzes/tests.

Class Participation: The students will be expected to make thorough preparation about the case study and concepts for each session. The students will be given opportunities to put forward their ideas and opinions and also critique the opinions of others. The grading will be based on the quality of discussion generated by the students which will be a direct reflection of their preparedness.

Team Project: Teams of students need to work on a project involving the various topics of the course. The project will run parallel to the course and will entail collection of data and application of the various methodologies of the course.

Mid Semester Exam: Mid semester examination will be conducted in the middle of the course.

End Semester Exam: End semester examination will be conducted at the end of the course and will be comprehensive in nature covering the whole course.

Evaluation Plan: Following are the weightages for each of the assessment components

Component	Weightage	Dates	Learning Goals Assessed
Class Participation 1	10		1 & 2
Mid Term Exam	30		1 & 2
Class Participation 2	10		1 & 2
Class Assignment	20		1, 2 & 3
End Term Exam	30		1 & 2

Text Book

1. Chase R.B., Shankar R., Jacobs F.R., Aquilano N.J., Operations and Supply Management, 12th Edition, McGrawHill

Other References

1. Supply Chain Management; Strategy, Planning, and Operation; Sunil Chopra, Peter Meindl, D V Kalra; 5e, Pearson
2. Operations Management; Theory and Practice; B Mahadevan, 3e, Pearson
3. Operations Management, Producing Goods and Services; Donald Waters, 2e, Prentice Hall
4. Operations Management, Contemporary concepts and cases; Roger G Schroeder, 3e, Tata McgrawHill.

Course Contents

Sessions	Title	Text Book Reading	Pedagogy Case/Article/Simulation/Discussion
1	Introduction to the course		Recap of IOM course
2 ~ 4	Demand Forecasting (Components, Methods, Performance measures of demand forecasting)	Ch-18 Chopra et al - Ch#7	Discussion & Exercises - Harmonizing Demand Forecasting and Supply at Mahindra and Mahindra Ltd (W13569): Ivey case
5 ~ 8	Sales & Operations Planning (Inputs, Outputs and strategies of Aggregate Planning; Linkage between SnOP and Aggregate Planning)	Ch-19	Discussion & Exercises - Cataumet Boats, Inc., (917509): HBS case
9 ~ 12	Inventory Planning & Control (Certain & uncertain demand, single and multi-period, P & Q models)	Ch-20	Discussion & Exercises - L.L. Bean, Inc.: Item Forecasting and Inventory Management, (893003): HBS Case
Mid-Term			
13	Aggregate Planning at Rane Industries		Practitioner session - TBD
14 ~ 16	Material Requirement Planning (Ordering Lots)	Ch-21	Discussion, IIM Bangalore - Material Requirements Planning at A-Cat Corp., (W12868): Ivey case
17, 18	Work-center Scheduling (Introduction to Linear Programming)	Ch-22	Discussion & Exercises
19	Role of IT in Operations Planning (Evolution from MRP to APO)	Ch-17	Practitioner session - Dr Swapnil Saurav (Dr Reddy Laboratories) ~ 18 th / 19 th Nov
20	Group Project Presentations		