



DEPARTMENT OF PRODUCTION ENGINEERING

COURSE PLAN – PART I			
Name of the programme and specialization	M.Tech. Industrial Engineering and Management		
Course Title	Supply Chain Management		
Course Code	PR656	No. of Credits	3
Course Code of Pre-requisite subject(s)			
Session	January 2019	Section (if, applicable)	-
Name of Faculty	Dr.P.Parthiban	Department	Production Engineering
Official Email	parthiban@nitt.edu	Telephone No.	9894366899
Name of Course Coordinator(s) (if, applicable)	---		
Official E-mail		Telephone No.	
Course Type (please tick appropriately)	<input checked="" type="checkbox"/> Core course	<input type="checkbox"/> Elective course	
Syllabus (approved in BoS)			
<p>Introduction to supply chain management - Supply Chain Performance: Achieving Strategic Fit and Scope - Supply Chain Drivers and Metrics</p> <p>Planning in Supply chain - Demand Forecasting in a Supply Chain - Aggregate Planning in a Supply Chain – Inventories in supply chain</p> <p>Designing the Supply chain network – Distribution networks – Transportation networks - Network Design in an Uncertain Environment - supply chain optimization</p> <p>Managing cross-functional drivers in supply chain - Sourcing Decisions in a Supply Chain - Pricing and Revenue Management in Supply Chain - Information Technology in Supply Chain - Coordination in Supply Chain</p> <p>Modern Supply chain management - Reverse supply chain strategies – Green and sustainable practices of Supply chain – Supply chain cases</p> <p>References</p> <ol style="list-style-type: none"> 1. Sunil Chopra And Peter Meindl, "Supply Chain Management, strategy, planning, and operation" 6/e – PHI, second edition, 2014 2. V.V. Sople, "Supply Chain Management, text and cases", Pearson Education South Asia,2012 			



COURSE OBJECTIVES	
To provide an insight on the fundamentals of supply chain strategy, logistics, sourcing and outsourcing supply chain networks, tools and techniques.	
MAPPING OF COs with POs	
Course Outcomes	Programme Outcomes (PO)
1. Define structure of Supply Chain	PO1, PO2, PO3, PO5, PO6, PO7, PO11
2. Design Supply Chain configuration	PO1, PO2, PO3, PO5, PO6, PO7, PO11
3. Analyze the role of Transportation in SCM	PO1, PO2, PO3, PO5, PO6, PO7, PO11

COURSE PLAN – PART II			
COURSE OVERVIEW			
<p>The course Supply Chain Management summarizes the foundation for design and analysis of Supply chains and synthesizes advanced and specialized concepts, principles and models for operational and strategic improvement necessary in the Industrial environment that involves Production planning, Scheduling, Forecasting and Replenishment.</p> <p>The course aids in learning major building blocks, functions, business processes, metrics and vital decisions in Supply Chain networks.</p>			
COURSE TEACHING AND LEARNING ACTIVITIES			(Add more rows)
S.No.	Week/Contact Hours	Topic	Mode of Delivery
1	Week 1 - 3 Hours	Introduction to Supply Chain Management	Chalk and talk with slides
2	Week 2 - 3 Hours	Supply Chain Performance	PPT slides
3	Week 3 - 3 Hours	Process View, Decision Phases, Achieving Strategic fit	Chalk and talk with slides
4	Week 4 - 3 Hours	Supply Chain Drivers and Metrics, Planning in Supply chain	Black board
5	Week 5 - 3 Hours	Demand Forecasting in a Supply Chain, Aggregate Planning in a Supply Chain	Chalk and talk with slides
6	Week 6 - 2 Hours	Inventories in supply chain, Designing the Supply chain network	Chalk and talk with slides
7	Week 7- 3 Hours	Distribution networks & Transportation networks	Chalk and talk with slides



8	Week 8 - 1 Hour	Cycle test - 1	---
9	Week 9 - 3 Hours	Network Design in an Uncertain Environment	Chalk and talk with slides
10	Week 10 - 2 Hours	Supply chain optimization	Chalk and talk with slides
11	Week 11- 3 Hours	Managing cross-functional drivers in supply chain	Chalk and talk with slides
12	Week 12- 2 Hours	Sourcing Decisions in a Supply Chain	Black board
13	Week 13- 3 Hours	Information Technology & Coordination in Supply Chain	Chalk and talk with slides
14	Week 14- 1 Hour	Cycle Test - 2	---
15	Week 15- 3 Hours	Modern Supply chain management	PPT slides
16	Week 16- 2 Hours	Reverse supply chain strategies	Chalk and talk with slides
17	Week 17- 1 Hour	Green and sustainable practices of Supply chain, Supply chain cases	PPT slides

COURSE ASSESSMENT METHODS (shall range from 4 to 6)

S.No.	Mode of Assessment	Week/Date	Duration	% Weightage
1	Cycle Test 1	Week 8	1 Hour	20
2	Assignment-I	Week 10	1 Week	5
3	Assignment-II	Week 14	1 week	5
4	Cycle Test 2	Week 15	1 Hour	20
CPA	Compensation Assessment*	Week 16	1 Hour	20
5	Final Assessment *	Week 17	3 Hours	50
				Total = 100

*mandatory; refer to guidelines on page 4

COURSE EXIT SURVEY (mention the ways in which the feedback about the course shall be assessed)



Apart from analyzing the performance of students through continuous assessments, Class committee meetings, periodical interaction with students and the Class Representative enable evaluation of students' opinion and makes possible to react upon outcome of analysis made in reasonable time. The exit survey impacts on design and delivery of the course in ensuing years.

COURSE POLICY (including compensation assessment to be specified)

MODE OF CORRESPONDENCE (email/ phone etc)

1. NITT WEBMAIL would act as a channel.
2. Queries pertaining to the course shall be clarified with the teacher in the class room.

COMPENSATION ASSESSMENT POLICY

Refer to the Guidelines at the end of the document and Regulations in the Institute website.

ATTENDANCE POLICY (A uniform attendance policy as specified below shall be followed)

- At least 75% attendance in each course is mandatory.
- A maximum of 10% shall be allowed under On Duty (OD) category.
- Students with less than 65% of attendance shall be prevented from writing the final assessment and shall be awarded 'V' grade.

ACADEMIC DISHONESTY & PLAGIARISM

- Possessing a mobile phone, carrying bits of paper, talking to other students, copying from others during an assessment will be treated as punishable dishonesty.
- Zero mark to be awarded for the offenders. For copying from another student, both students get the same penalty of zero mark.
- The departmental disciplinary committee including the course faculty member, PAC chairperson and the HoD, as members shall verify the facts of the malpractice and award the punishment if the student is found guilty. The report shall be submitted to the Academic office.
- The above policy against academic dishonesty shall be applicable for all the programmes.

FOR APPROVAL

Course Faculty

CC- Chairperson

HOD



Guidelines

- a) The number of assessments for any theory course shall range from 4 to 6.
- b) Every theory course shall have a final assessment on the entire syllabus with at least 30% weightage.
- c) One compensation assessment for absentees in assessments (other than final assessment) is mandatory. Only genuine cases of absence shall be considered.
- d) The passing minimum shall be as per the regulations.

B.Tech. Admitted in				P.G.
2018	2017	2016	2015	
35% or (Class average/2) whichever is greater.		(Peak/3) or (Class Average/2) whichever is lower		40%

- e) Attendance policy and the policy on academic dishonesty & plagiarism by students are uniform for all the courses.
- f) Absolute grading policy shall be incorporated if the number of students per course is less than 10.
- g) Necessary care shall be taken to ensure that the course plan is reasonable and is objective.