

POLITEHNICA University of Bucharest (**UPB**)
 Faculty of Industrial Engineering and Robotics (**IIR**)
 Study Programme: Industrial Engineering (**IE**)
 Form of study: Licence (Bachelor)

COURSE SPECIFICATION

Course title:	SUPPLY CHAIN MANAGEMENT	Semester:	6
Course code:	UPB.06.S.06.A.007	Credits (ECTS):	3

Course structure	Lecture	Seminar	Laboratory	Project	Total hours
<i>Number of hours per week</i>	2			2	4
<i>Number of hours per semester</i>	28			28	56

Lecturer	Lecture	Seminar / Laboratory / Project
<i>Name, academic degree</i>	Prof. Andrei SZUDER	Lect. Paula SPANU
<i>Contact (email, location)</i>	szuder@ctanm.pub.ro CB 203	pauspa16@yahoo.com

Course description:

The course focuses on management and improvement of supply chain processes and performance. It will be valuable for students who would like to pursue a career in consulting or take a position in operations, marketing or finance functions in a manufacturing or distribution firm. Are presented important supply chain metrics, primary tradeoffs in making supply chain decisions, and basic tools for effective and efficient supply chain management.

- Understanding fundamental concept of Supply Chain Management (SCM)
- Presenting and understanding the methods and specific techniques for solving practical problems of SCM
- Correlation of fundamental concepts with specific mathematical methods of this domain
- Developing abilities for critical analysis of possible solutions and choosing the optimal one
- Understanding the trends of development for SCM
- Understanding the role of SCM in a modern enterprise
- Using specific SCM vocabulary
- Utilization of specific tools utilization for the optimization of the processes in SCM
- Choice of the best logistics locations in SCM

Seminar / Laboratory / Project description:

Students will work in teams. Each team is required to:

- Defining students' teams and subjects for a new SCM project
- SCM Chart Flow
- Planning activities for a SCM project
- Resources planning for a SCM project
- Optimization of planning for a SCM project
- Tracking and controlling a SCM project
- Process in SCM Projects
- Modeling and Analyzing Processes in SCM Projects

- Processes optimization in SCM Projects
- Supply Chain Demand Forecasting
- Forecasting Techniques in SCM Projects
- Supply Techniques
- Final presentation and analysis of SCM laboratory works results

Intended learning outcomes:

- The association of knowledge, principles and methods of the technical sciences in the field with graphical representations for solving specific tasks.
- Use of the software and of the informational technology to solve specific tasks in industrial engineering field.
- The design and management of the production processes.
- Planning, controlling and quality assurance of the processes and production systems.

<i>Assessment method:</i>	% of the final grade	Minimal requirements for award of credits
Written exam	20%	
Report / project	40%	
Homework	40%	
Laboratory		
Other		

References:

1. Szuder; B. Abaza-Supply Chain management Course. UPB e-learning platform.2016
2. L. Krajewski, L. Ritzman. Operations Management. Pearsons. 2008
3. Chase – Aquilano. Production Operations Management. Irwin. 2008

Prerequisites:

Co-requisites

(courses to be taken in parallel as a condition for enrolment):

No

No

Additional relevant information:

Date: 05.07.2016

Prof.Andrei SZUDER Ph.D