University POLITEHNICA of Bucharest (UPB)
Faculty of Engineering and Management of Technological Systems (IMST)
Study Programme: Industrial Engineering (IE)
Level of study: Licence (Bachelor)

COURSE SPECIFICATION

Course title	Course code	Semester	Credits (ECTS)
Technology Strategy	UPB.06.S.08.O.002	8	4

Course structure	Lecture	Project	Total hours
Number of hours per week	2	2	4
Number of hours per semester	28	28	56

Academic staff	Lecture	Project
Name, academic degree	Marian GHEORGHE, Professor	
Contact (email)	marian.gheorghe@upb.ro	

Course description

Objective Achievement of knowledge and skills on strategy of research, development, implementation, operating, recoveryandrecycling on futuretechnologies.

Structure•Fundamental Concepts - Technology, Strategy, Product, etc. •Methods of Analysis, Conceive and Decision • Business, Projects, Contracts • Environment and Resources•Sustainable Development • Technology Implementation and Operating• Recovery and Recycling• Reference Technologies.

Project description

Objective Formation of practical skills through a development a case study on technology strategy.

Structure•Theme •General initial data• Preliminary structure • Detailed structure • Resources and Implementation.

Intended learning outcomes

• Knowledge and best practice of specific notions related to course area.
• Explanation and interpretation of ideas, projects, processes, theoretical and practical contents in the course area.
• Useof methods, techniques and instruments of investigation and implementation, expression of a positive and responsible attitude to scientific field.

Assessment method	% of the final grade	Minimal requirements for award of credits
Written exams	40	
Project	45	50 points, including 20 project points
Homework	15	

References
[1] Gheorghe M., et al, *Technology Strategy*, Course Notes, UPB [2] Lankhorst M., *Agile Service Development*, Springer, 2012 [3] Sachs J. D.,*The Age of Sustainable Development*, Columbia University Press, 2015 [4] Shane S. A., *Technology Strategy for Managers and Entrepreneurs*, Pearson Ed. Ltd., 2014

Prerequisites	Co-requisites (courses to be taken in parallel as a condition for enrolment)
Computer Aided Engineering; Manufacturing Pocesses	Entrepreneurship and Innovation

Date:08.07.2016

Course Coordinator,

Prof.dr.ing. Marian GHEORGHE