PROJECT MANAGEMENT

MSC IN MATERIALS ENGINEERING

(Full time training)

COURSE SHEET

UNIVERSITY OF MISKOLC
FACULTY OF MATERIALS SCIENCE AND ENGINEERING
INSTITUTE OF PHYSICAL METALLURGY, METALFORMING AND NANOTECHNOLOGY

2017/18. 2nd semester, Miskolc

Course sheet
PROJECT MANAGEMENT
for MSc students

Course Title: Project Management (compulsory subject)	**Credits: 4**

Type and Number of Contact Hours per Week: **2 hours lectures & 0 hour seminar**

Type of Assessment: Personal homework and written exam

Evaluation of students' performance:
To compile a pilot project by filling a busines case template as a homework for the signature.
To write a concise essay about one of the topics of the previously published exam questions. (Marked 1-5)

Position in Curriculum (which semester): 2

Pre-requisites *(if any)*: -

Course Description:

Acquired store of learning:
Study goals:
The course aims at helping students to be familiar with project management concepts, terms, roles and processes. They will learn: How projects are defined. How the structure of an organization impacts project management. How project management roles and responsibilities are defined. How all projects can be mapped to the same basic life cycle structure. How project management can be organized into functional areas.

Course content:
Project management has evolved to plan, coordinate and control the complex and diverse activities of modern industrial, commercial and management change and IT projects. The purpose of project management is to foresee or predict as many of the dangers and problems as possible and to plan, organize and control activities so that projects are completed successfully in spite of all the risks.
The course involves the descriptions about perspectives, principles, stakeholders, sponsors, managers and processes of a general project. Moreover the course provides detailed information about managing the team, scope, schedule, budget, quality and risks of the projects.

Education method: oral communication with PPT presentation.

Tematic

1. Project management definitions and perspectives.
2. Project stakeholders and project sponsor. The roles of the project manager.
3. Project life cycle: definition, 5-phase-model. Initiation project processes

4. Business case (eight key sections), project charter; planning processes.
5. The project management plan (structure and functional areas).
6. Executing processes; monitoring and controlling processes.
7. Change control processes; closure processes. The dissemination.
8. Managing a project team (HR plan).
9. Managing the project scope (scope creep and project change control, creating a project scope statement).
10. Managing the project schedule and the project budget (techniques for estimating project costs).
11. Managing project quality and project risks (risk analysis, creating a risk management plan and controlling risk responses).
12. Summarising and discussion about the submitted homeworks.

The 3-5 most important compulsory, or recommended **literature** (textbook, book) **resources**:

- **Dennis Lock: Project Management. Gower Publishing Limited (UK), 2013. ISBN-13: 978-0-566-08772-1**
- Rodney Turner: Handbook of Project Management. Gower Publishing Limited (UK), 2012
- Scott Berkun: Art of Project Management. Cambridge, MA: O'Reilly Media. ISBN 0-596-00786-8 (2005)
- A Guide To The Project Management Body Of Knowledge, 3rd ed., Project Management Institute. ISBN 1-930699-45-X (2003)
- James Lewis: Fundamentals of Project Management, 2nd ed., American Management Association. ISBN 0-8144-7132-3 (2002)

Responsible Instructor: Béla TÖRÖK, PhD. associate professor

Other Faculty Member(s) Involved in Teaching, if any (*name, position, scientific degree*):

Miskolc, 12/02/2018

Dr. Valéria Mertinger	Dr. Béla Török
Head of the Institute, professor	Lecturer, associate professor