# General information:

**Curriculum:** Architectural Engineering Bsc;Architectural Art BA; Architecture OTM

**Name of course: INTRODUCTION TO PROFESSIONAL PRACTICE**

**Course code:** MSE344AN

**Semester:** 6th

**Number of credits:** 3

**Allotment of hours per week:** 3/0/0

**Evaluation:** Signature and Exam

**Prerequisites: -**

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## General subject description

## The comprehensive introduction of project management and enterprise management mainly in the field of engineering. The terminology of the enterprises, study of its external and internal environment. The creation of company strategy and its role, the appearance of innovation in different projects, the increase of the competitiveness of the companies who has project management, the issues of enterprise crisis management, especiall with an operations managerial scope.

## Learning outcomes

## The aim of this course is the appearance of project management throughout the enterprises within the engineering practice mainly in the fields of architecture discipline. Apart from the comprehensive knowledge of project and enterprise management the key element of this course is to increase the synergy of the associated sciences in an embedded way within the engineering sciences.

## Subject content

During the semester, three major themes will be covered in varying degrees of depth within the framework of the subject. The first is the management discipline. This focuses on general management issues. On the other hand, specific topics. The students have to understand, that the source of success at the majority of top companies worldwide is inevitably based on outstanding products/services and/or efficient operations processes. Thus, operations are one of the most important functions in a company. Additionally, any activity that has outcome is a process and the knowledge and skills provided by operations management can be applied in many other functional areas as well. This line of argument describes the basic rational of the module.

The course also focuses on small enterprises and their importance and problems. The issue of business competitiveness is examined. Some cross-functional areas of the enterprise will also be discussed during the semester. Areas of marketing, production and service management, logistics. Partly in the corporate and partly in the third, projects area, corporate strategy, including small business strategies, will be discussed. The business plan as an important tool for companies and projects will be discussed. Some project finance issues will also be discussed.

In the last occasion students will see a hands-on demonstration of an architectural project, during which we will visit the field!

## Assignments and requirements will be handed out according to the topic, which will be uploaded to the course's Moodle / MS Teams platform along with the lecture materials and aids. Information related to the subject is also available on these platforms.

**Examination and evaluation system**

*In all cases. Annex 5 of the Statutes of the University of Pécs, the* ***Code of Studies and Examinations (CSE)******of the University of Pécs*** *shall prevail*

[*https://international.pte.hu/sites/international.pte.hu/files/doc/TVSZ%202022\_06\_23\_ENG.pdf*](https://international.pte.hu/sites/international.pte.hu/files/doc/TVSZ%202022_06_23_ENG.pdf)

(Neptunban: Oktatás/Tárgyak/Tárgy adatok/Tárgytematika/Számonkérési és értékelési rendszere rovat)

**Attendance**

In accordance with the Code of Studies and Examinations of the University of Pécs, Article 45 (2) and Annex 9. (Article 3) a student may be refused a grade or qualification in the given full-time course if the number of class absences exceeds 30% of the contact hours stipulated in the course description..

Method for monitoring attendance.: attendance sheet

***Assessment***

**Mid-term assessments, performance evaluation and their weighting as a pre-requisite for taking the final exam**

|  |  |  |
| --- | --- | --- |
| **Type** | **Assessment** | **Ratio in the final grade** |
| *Test 1* | *50 points* | *50 %* |
| *Test 2* | *50 points* | *50 %* |

**Requirements for the end-of-semester signature**

- attended the classes (prepared for the classes according to the curriculum/thematic schedule)

- complied/showed a behavior indicating that the subject should be completed, corrected, or replaced

*-Atleast 40%of points where gained on both of the tests.*

*Students will receive a proposed grade based on their performance during the study period. If the student will not receive atleast a pass (2) grade or if he/she will not accept the grade, the student can write a final exam.*

*If the student chooses to write the final exam the grade will be calculated 100% based on the result of the final exam.*

***Re-takes for the end-of-semester signature*** *(PTE TVSz 50§(2))*

*The specific regulations for grade betterment and re-take must be read and applied according to the general Code of Studies and Examinations.*

*The tests have one retake opportunity. If the students was not able to gain atleast 40% on both tests, They will have the opportunity to gain a mark on the Final exam in the exam period.*

**Type of examination** : written

The exam is successful if the result is minimum …40%.

**Calculation of the grade (TVSz 47§ (3))**

**Calculation of the final grade based on aggregate performance in percentage**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Grade: | 5 | 4 | 3 | 2 | 1 |
|  | A, excellent | B, good | C, Fair | D, Pass | F, Fail |
| Performance in % | 85%-100% | 70%-84% | 55%-69% | 40%-54% | 0-39% |

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**Readings and reference materials**

* Class notes, guides, examples, uploaded presentations.
* Heizer, J. - Render, B. M. - Munson, C.: Operations Management: Sustainability and Supply Chain Management, Pearson, 13th, Global Edition 2020
* Hauck, Zs. – Kiss, V.: Operations Management, collection of exercises 2020, ISBN: 9789636424558 (available in Moodle)
* Pinto, Jeffrey K. *Project management: achieving competitive advantage*. Upper Saddle River, NJ, USA: Pearson/Prentice Hall, 2007.
* Maylor, Harvey, (2022): Project Management, Pearson,
* Horine, Greg. *Absolute beginner's guide to project management*. Pearson Education, 2009
* Project Management Institute (2016): Project management guidelines (5th edition – in Hungarian). Published by Akadémiai, Budapest.
* Eric Verzuh (2005): Projectmanagement (in Hungarian). Published by HVG, Budapest.
* Vecsenyi, János (2009): Starting and running small businesses (in Hungarian). Published by Perfekt, Budapest.
* Vecsenyi ,János (2003): Entrepreneurship - From idea to start-up (in Hungarian). Published by Aula, Budapest.

## Educational methodology

The course is based on continuous communication between teachers and students. In the lectures, the lecturer gives a presentation, during which there is also a discussion on the topic.

Method:

* consultation during class time according to the timetable announced in the detailed syllabus
* homework
* research, data collection, analysis

## *Detailed subject programme and requirements*

**Tasks and their requirements**

1. Using operations to compete.
2. Developing missions and strategies.
3. Major process decisions.
4. Capacity planning.
5. Aggregate planning.
6. Managing inventory.
7. Lean service systems.

## Schedule of the course

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **DATE** | **WEEKS** | **LECTURES – [INTRODUCTION TO PROFESSIONAL PRACTICE]** | **Compulsory reading; page number** | **Required tasks**  | **Completion date, due date** |
| **2025.02.06** | 1. | **Registration, subject requirements, introduction; Description of the topics.** |  |  | **2025.02.06** |
| **2025.02.14** | 2. | **Introduction, Productivity** | **Heizer et al. (2020): 39-50,**  |  | **2025.02.14** |
| **2025.02.20** | 3. | **Production strategy, Competitive Priorities** | **Heizer et al. (2020): 51-66, 73-88** |  | **2025.02.20** |
| **2025.02.27** | 4. | Capacity Palnning, Bottle neck analysis | **Heizer et al. (2020): 345-356** | Scharffen Berger Case study | **2025.02.27** |
| **2025.03.06** | 5. | Waiting lines | **Heizer et al. (2020):785-813**  | Cranberry Case study | **2025.03.06** |
| **2025.03.13** | 6. | Production styles and their requirements | **Heizer et al. (2020): 197-231, 317-340** | Fabritek Case study | **2025.03.13** |
| **2025.03.20** | 7. | **1. Test** |  | 1. Test | **2025.03.20** |
| **2025.03.27** | 8. | Aggregate Planning | **Heizer et al. (2020): 567-600** |  | **2025.03.27** |
| **2025.04.03** | 9. | **Pollack Expo**  |  |  | **2025.04.03** |
| **2025.04.10** | 10. | Inventory Management | **Heizer et al. (2020): 525-567** |  | **2025.04.10** |
| **2025.04.17** | 11. | Lean Production |  |  | **2025.04.17** |
| **2025.04.24** | 12. | Spring Break  | **Heizer et al. (2020): 673-697** | Toyota Manufacturing Company Case study | **2025.04.24** |
| **2025.05.01** | 13. | Labor Day |  |  | **2025.05.01** |
| **2025.05.08** | 14. | **2. Test** |  | **2. Test** | **2025.05.08** |

We reserve the right to make changes to the details of this course syllabus (date / location / clarifications), which will be communicated to the students. In case of questions and problems that arise during the semester contact the responsible lecturer or the study program coordinator.

Pécs, 2025.01.26. Dr Sandor Danka

 lecturer