

Tárgytematika / Course Description

Operations Management

KGNB_MMTA046

Tárgyfelelős neve /

Teacher's name: dr. Süle Edit

Félév / Semester: 2022/23/2

Beszámolási forma /

Assesment: Vizsga

Tárgy heti óraszám /

Teaching hours(week): 2/2/0

Tárgy féléves óraszám /

Teaching hours(sem.): 0/0/0

OKTATÁS CÉLJA / AIM OF THE COURSE

The aim of this course is the students to understand fundamental concepts and principles of operations management. Theoretical and practical knowledge will enable the students to recognize the operations problems and select the appropriate method for solving them. By real, state-of-the-art company examples and best practices in guest lectures students get first hand experiences and are able to apply the methods learned during the course in the design, operation and control of production processes. The cases, practice problems and class activities are designed to help students in applying theory to practical situations and assist the student in developing leadership and managerial capabilities.

TANTÁRGY TARTALMA / DESCRIPTION

| Modul | TÉMAKÖRÖK/TOPICS (Lecture) |
|-------|---|
| 1 | Introduction. Basics of Operations Management |
| 2 | Operations strategies |
| 3 | Location |
| 4 | Layout |
| 5 | Product and process management |
| 6 | Productivity, efficiency, effectiveness |
| 7 | Capacity management |
| 8 | Inventory management |

| | |
|----|--|
| 9 | Quality management |
| 10 | Lean operations |
| 11 | Agile operations |
| 12 | Tracing and product identification systems |
| 13 | Industry 4.0. I |
| 14 | Industry 4.0. II |

Gyakorlatok/Seminars:

Throughout the seminars students work on case studies, practice problems and presentations individually, in pair and small groups. Case studies and exercises will be distributed in class. Students need to bring calculator for the seminar.

SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESSMENT'S METHOD

Mode of assessment:

Attendance on seminars is compulsory.

Student performance will be evaluated based on the parts of student work are as follows:

| | |
|--|------|
| Class Attendance and Participation (Seminar) | 10 % |
| Attendance on guest lectures (1 % each) | 5 % |
| Presentation of selected topic (pair work) | 15 % |
| 2 midterm exams (each worth 35 %) | 70 % |

| | |
|------------|--------------|
| 0 - 50 % | fail |
| 51 - 66 % | pass |
| 67 - 79 % | satisfactory |
| 80 - 89 % | good |
| 90 - 100 % | excellent |

KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL

Kötelező irodalom/Required learning materials:

The required materials for this course include a series of slides, including the guest lectures, set of readings and practice problems. These items are provided in moodle platform (szelearning.sze.hu). Additional exercises and case studies will be provided in the seminars.

Textbook: Heizer, Render, Munson: Operations Management – Sustainability and Supply Chain Management, 12th ed. Pearson, 2017.

Ajánlott irodalom/Recommended materials:

Stevenson, W.: Operations Management McGraw-Hill Education; 14th edition, 2020.

Slack, N. Brandon-Jones, A.: Operations and Process Management. Global Edition, Pearson, 2021.