Tárgytematika / Course Description

Process Management

KGNM_MMTA012

Tárgyfelelős neve / Teacher's name: dr. Süle Edit
Félév / Semester: 2017/18/2
Beszámolási forma / Assesment: Vizsga
Tárgy heti óraszáma / Teaching hours(week): 2/0/0
Tárgy féléves óraszáma / Teaching hours(sem.): 0/0/0

OKTATÁS CÉLJA / AIM OF THE COURSE

The aim is to provide students practical experience to enhance the theoretical knowledge in the field of process management. Students could acquire first-hand insights into the operations of a simulated company. This allowed them to observe and experience the challenges and difficulties of operating a factory competing on international markets. The theoretical base of the practical training is the context of further interaction of theory and practice ensured the incorporation of terms and definitions. The participants work in small groups of students and gained broad knowledge in the field of supply chain processes, while managing and redesigning the processes of the operation of their firm represented by the simulation environment. Based on their project work, they form key performance indicators and evaluate process performance and efficiency.

TANTÁRGY TARTALMA / DESCRIPTION

1.week	Introduction to Process Management. Key Terms of Process Management. Operations Strategy as a Competitive Advantage, Linkage Between Corporate, Business, and Operations Strategy, Developing Operations Strategy. The impact of make or buy decisions.
2.week	Process, product, service design. Efficiency, effectivity, productivity.
3.week	Location strategies. Methods for location planning. Location planning process.
4.week	Layout Planning and Analysis, Objectives of Layout, Classification of Facilities, Assembly line balancing. Bottleneck effect. Work in progress.
5.week	Demand and resource planning. Aggregate planning. Material supply design and strategies. Push, Pull.
6.week	MRP I, MRP II. ERP
7.week	Capacity planning. Rules of Prioritization.
8.week	Inventory management. Inventory models. Economic Order Quantity and other models. Limitations in order batching.
9.week	Process performance indicators. Performance evaluation. SCOR. BSC.
10.week	Wastes. 3MU. TPS.
11.week	Quality systems. Quality awards. 6Sigma. TQM.
12.week	Process improvement. Kaizen. Reengineering.
13.week	Lean management. Agile systems.
14.week	4. industrial revolution. Industry 4.0. Smart factory.

SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESMENT'S METHOD

Semester work: Students' work is based on (i) portfolio (by home works), (ii) midterm quizzes, (iii) final prezentation.

Grade is available by the sum of these three parts as below:

1 -50 % (1)

51-69 % (2)

70-79 % (3)

80-89 % (4)

90-100 % (5)

KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL

Compulsory literature:

Bamford, D.- Forrester, P.: Essential Guide to Operations Management: Concepts and Case Notes. Whiley, 2010.

Heizer, J.-Render, B.-Munson, C.: Operations Management. Pearson, Twelfth Edition, 2017.

Recommended sources:

Slack, N,- Chambers, S.- Johnston, R.-Betts, A.:Operations and Process Management. Ft Prentice Hall. Second Edition. 2010.

Slack, N,- Chambers, S.- Johnston, R.: Operations Management. Ft. Prentice Hall, Sixth Edition, 2010.

Kumar, S. Anil: Production and Operations Management, New Age International Pvt. Ltd., Publishers 2008.
Joseph G. Monks: Operation Management Theory and Problems, Mcgraw-Hill 2006.

Slack, N.: Operations Management, Pearson Publishing 2008.