



Syllabus

Term: 2025/26/2 **Subject name:** Production and Process Management **Subject code:** M23VZA02E

Unit (Unit code) Department of Management Science (KMI)

Lecturer responsible for the course: Dr. HAUCK Zsuzsanna

Requirement: Exam

Classes per week : 4/0/0

Classes per term:

Purpose of education:

The source of success at the majority of top companies is inevitably based on outstanding products and/or efficient operations processes. Thus operations is 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. Thus the programme aims 1) to provide students with enhanced and deepened knowledge and skills to equip them for a carrier in a diverse range of business organisations, 2) develop the students' competence in applying a range of business and management skills to the practice of management, 3) develop the critical and analytical powers of the students in relation to management, 4) develop critical and analytical problem-based learning and the transferable skills to prepare the student for graduate employment, 5) enhance the development of the students' existing skills base, allowing for a cumulative learning experience.

Contents:

On completion of this course, successful students will be able to demonstrate

1. critical insights into the role of operations in the value creation process;
2. synthesised knowledge to recognize the different operating systems required to solve complex business problems;
3. in-depth and critical knowledge and understanding of theoretical and conceptual grounding in operations management;
4. critical evaluation of situations in the globalized business environment with special emphasis on supply chain management;
5. consolidate, evaluate, select programmes to improve operational capabilities of the firm. (Heizer et al., 2017 define around one hundred learning objectives of operations management);
6. identify strategic approaches to competitive advantage;
7. understand the significance of key success factors and core competencies;
8. understanding the necessity of simultaneous product and process development, identifying those process characteristics that provide product features required to compete.

On completion of this course the successful student will be able to



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1. work efficiently and effectively both as an individual and as a member of a team;
2. communicate and present an argument in the improvement process;
3. deliver products and services effectively in timely manner at the required quantity and quality;
4. synthesise, design and control operating systems, making long, medium and short term decisions; Referring to Heizer et al. (2017) again some important skills that can be gained by attaining at this course are the ability to
5. identify bottlenecks of complex processes to make effective decisions in investments, to calculate productivity, to design and produce products and services with outstanding quality and inherent customer value, to attain the exceptional value that is consistent with the company mission and marketing objectives by close attention to design, procurement, production, and field service opportunities, to determine, design, and produce the production process and equipment that will be compatible with low-cost product, high quality, and a good quality of work life at economical cost, to collaborate with suppliers to develop innovative products from stable, effective and efficient sources of supply, to provide a good quality of work life, with well designed, safe, rewarding jobs.

System of examining and valuation:

Continuous learning is required. The learning process is checked at each class through presentation, case discussions and problem solving. Students acquire knowledge and skills through individual learning, working in groups, participation in business games, and working in teams to solve business problems and cases

Students' knowledge, understanding and skills are assessed by individual and group coursework, presentations, performance in business games, and examinations.

Coursework: 15%

Midterm exam: 15%

Final exam: 70%

Bibliography:

- Heizer, Jay – Render, Barry – Munson, Chuck (2017): Operations Management: Sustainability and Supply Chain Management, 12th edition (Global Edition), Pearson



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Bibliography:

Krajewski, L. J. - Malhotra, M. - Ritzman, L. (2019): Operations management: processes and supply chains, 12th edition, Pearson

Bibliography:

- Chopra, Sunil – Meindl, Peter (2019): Supply Chain Management, 6th edition, Pearson

Slack, Nigel – Brandon-Jones, Alistair - Johnston, Robert (2016): Operations Management, 8th edition, Prentice Hall