

STUDY DESCRIPTION Masters LEVEL-Project Work

Course title:	Healthcare Logistics Masters level- Healthcare logistics project work
E-Learning hours:	30
Prerequisites:	Completed Bachelor's level education
Course unit leader:	RUAS

Aims and objectives:

The main aim of this module is to gather together students from different countries, allowing them to exchange knowledge and experiences from healthcare logistics. The module will develop competencies and skills required in demanding healthcare logistics development projects and logistics problem solving situations.

This program was delivered entirely online; however, initially it was planned to take place in Rotterdam University of Applied Sciences premises, but due to the COVID-19 pandemic it moved online.

Course description:

The course consists of 1 module of 5 ECTS. The module consists in the following themes:

- Introduction to Healthcare supply chains
- Guest lecture Theory of Constrains in Healthcare and how to implement in daily practice.
- Guest lecture Lean Six Sigma in Healthcare and how to implement in daily practice.
- Exchange ideas with students from different countries about processes improvement and challenges in healthcare.
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Entry criteria and evaluation methods

The course is designed for those students and professionals who wish to gain insight into healthcare supply chain and logistics.

Entry criteria:

- Have/be in the last years of a Bachelor of Engineering, a Bachelor of Science degree or a Bachelor degree on healthcare.

Evaluation method:

- Pre-assignment and Learning diary assessment.

Learning outcomes, competencies:

Through the successful participation in the course the following competencies and related learning objectives can be acquired:

Study module	Competencies	Learning objectives
Understanding healthcare supply chains and and derivate logistics problems	<ul style="list-style-type: none"> • Able to understand healthcare supply chain and its importance. • Able to identify the healthcare supply chain components and interactions. • Able to understand healthcare supply chain challenges. 	<ol style="list-style-type: none"> 1. Understand Healthcare supply chains 2. Identify what makes Healthcare supply chain management different. 3. Identify the typical challenges and problems of Healthcare supply chains.
Theory of Constraints in Healthcare	<ul style="list-style-type: none"> • Able to understand Theory of Constraints applied in a Healthcare environment. 	<ol style="list-style-type: none"> 1. Understand the basis of ToC and how to apply it to healthcare workflows.
Lean Six Sigma in Healthcare	<ul style="list-style-type: none"> • Able to understand continuous improvement concept and basic lean processes. • Able to understand six sigma methodology • Able to develop VSM applied to healthcare processes. 	<ol style="list-style-type: none"> 1. Learn how to apply Value Stream Mapping to improve healthcare processes.

Recommended bibliography:

- Healthcare Supply Chain Management: Basic Concepts and Principles. Hokey Min. Business Expert Press. ISBN 978-1606498941.
- A Process Of OnGoing Improvement in a Hospital Environment. Gjis Andrea. Globe Edit, 2019. ISBN 978-6139413218
- Lean Six Sigma in Healthcare. Henk de Koning, John P. S. Verver, Jaap van den Heuvel, Soren Bisgaard, Ronald J. M. M. Does. Journal for Healthcare Quality, 2006. DOI: 10.1111/j.1945-1474.2006.tb00596.x

Contact:

Interaction can be done through the discussion forum in the platform and/or by email to:
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Methodology:

This course was delivered online using a Moodle platform as document repository and Microsoft Teams for delivering lectures and interaction with students. It took place October 26-October 30, 2020.

The structure followed can be seen in the following table.

Date	Topic/ working method
26-10-2020 13.00 -14.00	Welcome and getting to know each other
14.00 – 16.00	Topic: Understanding Healthcare Supply Chain,
27-10-2020 09.30 – 14.30	Guest lecturer: Theory of Constraints (ToC) in Healthcare Students will work on an assignment given by the guest lecturer
28-10-2020 09.30 – 10.30	Erasmus MC presentation
11.00 – 12.30	Roundtable work. Students will present their work on the field or review a peer reviewed article.
29-10-2020 09.30 – 10.30	Guest Lecturer: Lean Six Sigma in Healthcare. Students will work on an assignment given by the guest lecturer.



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