

Screenshoty kurzu 4IT542 v LMS Moodle:

VŠE / VYSOKÁ ŠKOLA EKONOMICKÁ V PRAZE
Zuzana Šedivá CS

Následně - 4IT542 Lean manufacturing a data (2023/2024 LS)
Zapnout režim úprav









NAVIGACE

- ▼ Nástěnka
 - 🔗 Můj přehled semestrů
 - > Hlavní nabídka
 - ▼ Moje kurzy
 - > Testovací kurz Hábová
 - > 14C123
 - > Testovací kurz Šedivá
 - > Ukázky testů a import testových otázek
 - > ENG FA
 - > ENG STS
 - > STS
 - > PP
 - > Příklady dobré praxe
 - > Kritické situace
 - 🔗 Více...
 - > Kurzy

SPRÁVA

- ▼ Správa kurzu
 - 🔗 Nastavení
 - 🔗 Absolvování kurzu
 - 🔗 Rozšíření atributů kurzu
 - 📄 Ověřky
 - > Uživatelé
 - 🔍 Filtry
 - > Seřadby
 - 🔗 Nastavení hodnocení
 - > Oznaky
 - 🔗 Import
 - 🔗 Záloha
 - 🔗 Obnovit
 - ⚙️ Reset
 - > Banka úloh

4IT542 Lean manufacturing a data (2023/2024 LS)

 <p>Announcements</p>	 <p>Introduction</p>	 <p>1. Digitalisation of manufacturing and data</p>
 <p>2. Data inputs and outputs in lean management</p>	 <p>3. Integration of advanced technologies in manuf...</p>	 <p>4. Variance Analysis in the Manufacturing Process</p>
 <p>5. Predictive Maintenance</p>	 <p>Conclusion</p>	

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SPRÁVA

- ▼ Správa stránek
 - 📌 Nastavení
 - 👤 Lokálně přidělené role
 - 📄 Oprávnění
 - 🔒 Kontrola oprávnění
 - ▼ Filtry
 - 📄 Protokoly
 - 📄 Záznamy
 - 🔄 Obnovit

➤ Správa kurzu

PŘIDAT BLOK

Přidat...

Organisational information for the course

obnovit

Course syllabus

insis: <https://insis.vse.cz/auth/katalog/syllabus.php?predmet=197489>

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Additional information

There will be a dedicated Teams channel created for course participants which will serve for all official [announcements](#), assignments and cooperation. There will be pre-read materials (e.g. case studies) shared before and during the course. Timely submission of assignments, their quality and attendance of in-person sessions are critical for successful completion of the course.

Course Introduction

The course e-learning module provides an extensive overview of how digital technologies are integrated into manufacturing processes to enhance efficiency, productivity, and flexibility. Here are some of the key points covered in the document:

- Digitalisation of Manufacturing:** This section explains how digital technologies are used in manufacturing to streamline operations, improve decision-making, and optimize resource utilization.
- Digital Strategy in Manufacturing:** It discusses the strategies that manufacturing organizations adopt to effectively leverage digital technologies, aligning digital initiatives with business goals to foster innovation and competitiveness.
- Lean Manufacturing:** The document describes lean manufacturing as a methodology based on principles and rules designed to enhance operational efficiency by structuring activities, connections, and flows within an organization.
- Related Methodologies and Approaches:** Various principles like Continuous flow, Gemba, Heijunka, and Just-in-Time are discussed, which support the digital transformation of manufacturing.
- Data in Manufacturing:** Importance of data for informed decision-making, predictive maintenance, and process optimization is emphasized. It also covers the role of sensors and platforms in collecting and analyzing data to drive innovation and efficiency.
- Lean Management Data Inputs and Outputs:** This section outlines methods and tools such as Visual Factory Management, Pull Systems, and Heijunka that help in leveraging data for continuous improvement and operational excellence.
- Advanced Technologies:** The integration of the Internet of Things (IoT), artificial intelligence (AI), and machine learning (ML) in manufacturing is discussed, showing how these technologies enhance decision-making and operational efficiency.
- Predictive Maintenance:** It highlights the use of predictive maintenance techniques to forecast equipment failures and schedule maintenance proactively to minimize downtime and extend machinery lifespan.

Each section is detailed with explanations of how specific technologies and methodologies can be applied to modernize and improve manufacturing processes, making operations more agile, efficient, and customer-centric.



Tento studijní materiál vznikl za podpory Evropské unie, Next Generation EU v rámci Národního plánu obnovy České Republiky v projektu Modernizace a digitalizace Vysoké školy ekonomické v Praze.

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Naposledy změněno: středa, 26. června 2024, 16:17

[◀ Basic orientation in the LMS Moodle VŠE environment](#)

Přejít na...

[Digitalisation of manufacturing and data ▶](#)