

SUSA Learning Objectives (LOs)

Area	Topic	Learning objectives After the course, the student will be able to...
Data	Data sharing	LO1. Critically evaluate the potential of emerging digital data-driven technologies to improve health outcomes and healthcare systems by considering their effectiveness, ethical implications, feasibility, and impact across diverse populations and contexts. LO2. Recognize data flows in healthcare system. LO3. Comply with European values and data regulation, such as EHDS, GDPR, FAIR, trustworthy AI guidelines.
	Data analytics	LO4. Examine the role of data and data quality in trustworthiness of AI and analytics LO5. Apply appropriate methods for summarizing, analysing, and visually representing data to support interpretation and decision-making.
AI	Ethics of AI	LO6. Discuss ethical aspects in adoption of AI in decision making. LO7. Indicate regulation related to adoption and use of AI in health.
	Basics of AI	LO8. Explain what AI is and what it is not. LO9. Differentiate and critically relate major paradigms and approaches within artificial intelligence by understanding their underlying principles, capabilities, and application contexts. LO10. Explain basic machine learning: supervised learning, unsupervised learning, federated learning and reinforcement learning.
Data infrastructures		LO11. Examine the potential of diverse digital and biomedical data infrastructures—including connected devices, sensing technologies, imaging, genomic data, and distributed data systems—to generate and mobilize data for care, research, and decision-making. LO12. Examine the potential of digital infrastructures, such as EHR, patient, registries, robotics, VR/XR. LO13. Examine challenges and enablers of syntactic and semantic interoperability within health data ecosystems and the role of standards and ontologies.
Sustainability		LO14. Examine sustainability, eco-responsibility and scalability elements of data sharing and infostructures.
Cybersecurity		LO15. Distinguish security and privacy challenges in health context. LO16. Discuss privacy and security challenges and approaches.
Regulation		LO17. Identify relevant regulative frameworks in Europe and globally.
Global health		LO18. Apply accessibility guidelines in health applications. LO19. Discuss the role of digital health data in global health, such as pandemic response, supporting mobility and achieving equity. LO20. Analyse impact of digital health, including benefits, limitations, impact to safety and ethical issues.

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