Course 2QA327- Schedule HT2023.

Week 34	Торіс
Zoom	Course Introduction
Lecture	
Friday 25 th	Introduction to course syllabus, activities, faculty and different
16:00-17:00	moments
Fernando Seo	ane and Farhad Abtahi

Module 1: Intro	Module 1: Introduction to Healthcare Transformation (Weeks 34 - 36)	
Week 34 available 26 th	Factors driving Transformation of Healthcare Offline - Self- study- Content on Web	
Contents	Patient Centredness and Patient Engagement, Evidence-Based Medicine, Patient safety	
Week 35 available 28 th August, Monday	Video Lecture on High-Value Care and Outcome Measures	
Contents	High-Value Care, PROMs & PREMs, Integrated care	
Week 35 available August, 31 st Thursday	Video Lecture of Digital Health Transformation: a holistic process	
Contents	DHT vs Digitalization, What is DHT? and requirements to achieve it	
Week 36	Individual student work – Own reflexion on DHT potential and hinders	
Contents	Activity to check in own progress and possibility to get bonus points.	
	End of Module 1	

Module 2: Digita	lization of Healthcare (Weeks 36 - 37)
Week 36 available September, 4th Monday	Video Lecture in Interoperability in Digital Healthcare
Contents	Definitions, challenges in healthcare, influencing factors & solutions
Week 36 available September, 7 th Thursday	Video Lecture- Health Data and Health Data Management
Contents	Sources, Usage, Access, examples from Hospital centers
Week 37 Available September, 11 th Monday	Video Lecture in Security, Privacy and GDPR
Contents	Legal Framework, requirements, risks and trends
Week 37 Available September, 14 th Thursday	Ethics in Digital Health Self-study- Content on Web
Contents	Group Activity. Impact of digitalization on ethical principles in Healthcare
Activity	Group discussion about benefits and risk of digitalization in Healthcare
	End of Module 2

Module 3: Tools a	nd Methods (Weeks 38 - 41)
Week 38 Available September 18 th , Monday	Video Lecture in Lean and Six-sigma in healthcare
Content	What is Lean-Six Sigma, application in Healthcare settings, showcasing.
Week 38 Available September, 21 st , Thursday	Video Lecture in Business Intelligence in Healthcare
Contents	What is Business Intelligence, BI in Hospitals
Week 39 Available September 25 th , Monday	Video Lecture in AI and Machine Learning in Healthcare.
Contents	Introduction to AI, ML process, types, examples in healthcare and step-by-step case demonstration
Week 39 Available September 28 th Thursday	Video Demonstration – Application of Machine Learning.
Week 40	
Available October 2 nd Monday	Video Lecture on Process-oriented Data Science.
Contents	Introduction, Interactive process Mining Methodology, cases.
Week 40 Available October 4 th , Wednesday	Video Demonstration – Application of Process mining
Week 40 Available October 3 rd Thursday	Video Lecture on Data Visualization and Dashboarding
Contents	Sources, potential uses, examples
Week 41	Self Assessment of Module 3
Contents	Activity to check in own progress and possibility to get bonus points
Activity	Individual Quiz
	End of Module 3

Module 4: Me	dical Technologies (W41-W42)
Week 41 Available October 9 th , Monday	Video Lecture in Real-Time Locations Systems.
Contents	What is? Technologies, solutions and services. Real installations Walkthrough.
Week 41 Available October 12 th , Thursday	Video Lecture Telemedicine, eHealth and mHealth.
Content	Enabling Digital and IT technologies. What is what, communalities, differences and examples
Week 42 Available October 16 th , Monday	Video Lecture on Wearable technologies and consumer level health device.
Content	Wearable sensing foundations, personal health devices, lifestyle and wellbeing solutions.
Week 42 Available October 19 th , Thursday	Video Digital Lecture on Regulatory framework of medical technology and digital health.
Content	Applicable regulations, Software as a Medical Device, Al Act, European Health Data Space, EU vs US
Assessment	Group work on all-through course assignment. Activity to check in own progress and possibility to get bonus points
	End of Module 4

Course Examination	
Week 44	Delivery of presentations of student group work for bonus points
Week 44	Canvas Course Examination
(1 hour)	Quiz Multiple Answer type + Essay own reflection question
Week 50	Canvas Course Re-examination,
	Quiz Multiple Answer type + Essay own reflection question