Artificial Intelligence in Diagnostics and Surgery Planning 2023/2024/I.

Practice place: Uzsoki Hospoital, Building C, Conference room; 1145 Budapest, Uzsoki str. 29-41. Dates: Every 2nd Tuesday, 17:15 – 18:45 (2X45')

1st occasion: NET Green/Brown lecture theatre, 05/09/2023 17:15-18:45

		1st occasion. Net green/prown recture theatre, 05/05/2025 17.15-16.45
Week	Date	Lecture title
1.	05/09/2023	The Concept of Artificial Intelligence and Examples of Medical Applications – Introductory Lecture
		Q&A
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,	12/00/2022	E
2.	12/09/2023	Free
3.	19/09/2023	Working Principles and Architecture of Neural Networks
		Challenges and Solutions of Training Neural Networks
4.	26/09/2023	Free
5.	03/10/2023	Similarities and Differences of Architectures and Operation of the Central Nervous System and
		Artificial Intelligence; Lecturer: Balázs Szegedy, PhD, Research Mathematician
		One-Dimensional Data Processing with Convolutional Neural Networks; Electrocardiogram, Audio,
		Speech, and Text with Artificial Intelligence
6.	10/10/2023	Free
		Text Processing, Translation, Text Generation with Artificial Intelligence; Operating Principles of
7.	17/10/2023	ChatGPT; Transformer Networks; Reinforcement Learning
		Two-Dimensional Image and Video Processing with Convolutional Neural Networks
8.	24/10/2023	Free
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		Three-Dimensional Image Processing with Convolutional Neural Networks; Structure of CT and
9.	2023/ 10/ 31.	MR Medical Images; Radiomics and Artificial Intelligence
		Artificial Intelligence in the Practice of Radiological Diagnostics; Lecturer: Dr. Egyed Zsófia PhD,
		Head of Radiology Department, Uzsoki Hospital
10.	07/11/2023	Free
	14/11/2023	
11.		Operation Planning with Artificial Intelligence: Ultra-Fresh Osteochondral Allograft Donor
		Matching and Prosthetics Design; Lecturers: Prof. Dr. László Hangody, Dr. György Hangody
		Practical Challenges of Collecting a Training Set: Case Study of the Training of the Ultra-Fresh
		Osteochondral Allograft Donor Matching Artificial Intelligence
4.5		
12.	21/11/2023	Free
13.	28/11/2023	Real-world Examples of Design and Execution of Therapy with Artificial Intelligence; Mistakes by
		Artificial Intelligence and their Reasons; Medical Practitioner's Responsibility
		The Future of Artificial Intelligence in Medicine
		The Later of Michigan Intelligence in Medicine
14	OF /12 /2022	Euro
14.	05/12/2023	Free
	12/12/2023	Written Exam (NET?)
	23/1/2024	Written Exam (NET?)