

CURRICULUM – FIRST YEAR 2025-2026

UNIVERSITY	George Emil Palade University of Medicine, Pharmacy, Science and Technology of Târgu Mureș	SPECIALTY	MASTER DEGREE of Multimodal Imaging Techniques in Medicine
FACULTY	FACULTY OF MEDICINE IN ENGLISH	GRADUATE'S TITLE	Specialist in Multimodal Imagistics
FIELD OF STUDY	HEALTH	DURATION OF STUDIES	2 YEARS
REGULATION LEVEL	SECTOR	TRANSFERABLE CREDIT (ECTS)/ Accredited according to ARACIS + compatible with EQF/NQF standards (level 7) and Euratom / HERCA requirements regarding radiation protection	120 (MANDATORY + OPTIONAL)

Nr. crt.	Educational activities Disciplines	Code/Type of subjects	1 st Semester (14 weeks)								2 nd Semester (14 weeks)								Total per academic year				
			1 st Module (7 weeks)				2 nd Module (7 weeks)				3 rd Module (7 weeks)				4 th Modul (7 weeks)				Lect.	Pa/Inter./Sem/Pr	Indiv. study	ECTS	
			Lect.	Pa/Inter./Sem/Pr	ECTS	Type of assessment	Lect.	Pa/Inter./Sem/Pr	ECTS	Type of assessment	Lect.	Pa/Inter./Sem/Pr	ECTS	Type of assessment	Lect.	Pa/Inter./Sem/Pr	ECTS	Type of assessment					
1	Functional imaging anatomy	MMITM101/ OBL/DF	2	4	5	E													14	28	91	5	
2	Physical foundations of medical imaging	MMITM 102/ OBL/DF	2	2	5	E													14	14	105	5	
3	Digital acquisition and processing technologies	MMITM 103/ OBL/DS	2	2	5	E	2	2	5	E									28	28	203	10	
4	Quality control and safety in medical imaging	MMITM 104/ OBL/DC					2	4	5	E									14	28	91	5	
5	Terminology & radiological semiology	MMITM 105/ OBL/DF					1	3	5	E									7	21	105	5	
6	Radiation protection & radiobiology	MMITM 106/ OBL/DC									1	3	5	E					7	21	105	5	
7	Applied AI in Imagistics	MMITM 107/ OBL/DS									2	4	5	E					14	28	91	5	
8	Conventional and digital radiography – techniques and protocols	MMITM 108/ OBL/DS									2	3	5	E	1	3	4	E	21	42	170	9	
9	Applied techniques and software's in Imagistics	MMITM 109/ OBL/DF													1	2	4	V	7	14	84	4	
10	Practice in Imagistics	MMITM 110/OBL/DS													-	4	5	V	-	42	91	5	
11	Optional discipline* *Image and data networks *Imaging data management (PACS, RIS, DICOM)	MMITM 111/OPT/DS													1	1	2	V	7	7	42	2	
GRAND TOTAL			4DF; 5DS; 2DC	6	8	15 ECTS	3E	5	9	15 ECTS	3E	5	10	15 ECTS	3E	3	10	15 ECTS	1E; 3V	133	273	1178	60
TOTAL HOURS/CREDITS			14 hours /week - 30 ECTS/semester								14 hours /week - 30 ECTS/semester								406				

** Optional discipline – 1 discipline/module at student's choice

Ratio theory/practical activity (Practical activity, Internship, Seminar, Practice): 154/256 = 1/2,05; Ratio exams/verifications = 10E/3V * Specialized clinical practice in Imagistics 7 weeks 2 days/week x 3 hours/day = 42 hours

DS- standard subject; DF – fundamental subject; DC – complementary subject; OPT – optional discipline, OBL – compulsory discipline

E – exam; V – verification; PA – practical activity; Sem. – seminar; Intern. – clinical internship; Pract. – practice; ECTS – Transferable European Credits

RECTOR

Prof. Leonard Azamfirei, MD, PhD

VICERECTOR

Prof. Ovidiu Cotoi, MD, PhD

DEAN

Prof. Simona Gurzu-Prundaru, MD, PhD

Chief Secretary

Ec. Dan Groșan

CURRICULUM – SECOND YEAR 2026-2027

UNIVERSITY	George Emil Palade University of Medicine, Pharmacy, Science and Technology of Târgu Mureș	SPECIALTY	MASTER DEGREE of Multimodal Imaging Techniques in Medicine
FACULTY	FACULTY OF MEDICINE IN ENGLISH	GRADUATE'S TITLE	Specialist in Multimodal Imagistics
FIELD OF STUDY	HEALTH	DURATION OF STUDIES	2 YEARS
REGULATION LEVEL	SECTOR	TRANSFERABLE CREDIT (ECTS)/ Accredited according to ARACIS + compatible with EQF/NQF standards (level 7) and Euratom / HERCA requirements regarding radiation protection	120 (MANDATORY + OPTIONAL)

Nr. crt.	Educational activities Disciplines	Code/Type of subjects	1 st Semester (14 weeks)								2 nd Semester (14 weeks)								Total per academic year			
			1 st Module (7 weeks)				2 nd Module (7 weeks)				3 rd Module (7 weeks)				Modul IV (7 weeks)							
			Lect.	Pa/Inter./Sem/Pr	ECTS	Type of assessment	Lect.	Pa/Inter./Sem/Pr	ECTS	Type of assessment	Lect.	Pa/Inter./Sem/Pr	ECTS	Type of assessment	Lect.	Pa/Inter./Sem/Pr	ECTS	Type of assessment	Lect.	Pa/Inter./Sem/Pr	Indiv. study	ECTS
1	General ultrasonography - principles and guided practice	MMITM 201/ OBL/DS	2	4	5	E												14	28	91	5	
2	General computer tomography scan & applications for multimodal imagists	MMITM 202/ OBL/DS	2	2	5	E												14	14	105	5	
3	General MRI scan, PET-CT technics & applications	MMITM 203/ OBL/DS	2	2	5	E												14	14	105	5	
4	Specialized ultrasonography I (abdominal ultrasonography)	MMITM 204/ OBL/DC					2	2	5	E								14	14	105	5	
5	Specialized computer tomography (abdominal scan & applications)	MMITM 205 OBL/DC					2	4	4	E								14	28	63	4	
6	General MRI scan, PET-CT technics - (abdominal evaluation)	MMITM 206/OBL/DC					1	2	4	E								7	14	84	4	
7	Ethics and academic integrity	MMITM 207/OBL/DS					1	-	2	V								7	-	49	2	
8	Specialized ultrasonography (Cardiac & vascular echography)	MMITM 208/ OBL/DC										2	4	5	E			14	28	91	5	
9	Specialized computer tomography (Cardiac & vascular echography)	MMITM 209/ OBL/DC										1	3	5	E			7	21	105	5	
10	General MRI scan, PET-CT technics - (Cardiac & vascular echography)	MMITM 210/ OBL/DC										1	3	5	E			7	21	105	5	
11	Specialized ultrasonography (Obstetrics & gynecology echography)	MMITM 211/ OBL/DC												2	2	4	E	14	14	77	4	
12	Specialized computer tomography (Obstetrics & gynecology echography)	MMITM 212/ OBL/DC												1	1	2	E	7	7	42	2	
13	General MRI scan, PET-CT technics - (Obstetrics & gynecology echography)	MMITM 213/ OBL/DC												1	1	2	E	7	7	42	2	
14	Practice in Imagistics	MMITM/214/OBL/DS														4	V	-	42	91	5	
15	Optional discipline** **CEUS & elastography (ultrasound & MRI) **Soft tissue & musculoskeletal system ultrasound	MMITM 215/OPT/DC														1	V	7	7	42	2	
16	Dissertation thesis																	-	56	-	10	
GRAND TOTAL		5DS; 10 DC	6	8	15 ECTS	3E	6	8	15 ECTS	3E, 1V	4		15 ECTS	3E	5	9	15 ECTS	3E, 2V	147	315	1197	60 + 10***
TOTAL HOURS/CREDITS			14 hours /week - 30 ECTS/semester								14 hours /week - 30 ECTS/semester								462			

** Optional discipline – 1 discipline/module at student's choice

Ratio theory/practical activity (Practical activity, Internship, Seminar, Practice): 168/294 =1/2,14; **Ratio exams/verifications** = 12 E/3V * Specialized clinical practice in Imagistics 7 weeks 2 days/week x 3 hours/day = 42 hours

DS- standard subject; DF – fundamental subject; DC – complementary subject; OPT – optional discipline, OBL – compulsory discipline

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*** An additional 10 ECTS are awarded for the Dissertation thesis

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