

Dr. D.Y. Patil School of Allied Health Sciences

**Dr. D. Y. Patil Vidyapeeth, Pune
(Deemed to be University)**



Programme Framework

**Master of Science in Radiology and
Imaging Technology
(M.Sc. RIT)**

First Year

First Semester

Course code	Course Title	Credit			Hours			Marks			
		Theory	Practical	Total	Theory	Practical	Total	Internal	Theory	Practical	Total
MRIT 101	Management & Planning of a Radiology & Imaging department including national and international guidelines	2	5	7	30	150	180	40	80	80	200
MRIT 102	Modern Imaging Techniques including Fusion and hybrid imaging technologies	2	5	7	30	150	180	40	80	80	200
MRIT 103	Advanced Physics of Radiology & Imaging	2	4	6	30	120	150	40	80	80	200
	Total	6	14	20	90	420	510	120	240	240	600

Second Semester

Course Code	Course Titles	Credit			Hours				Marks		
		Theory	Practical	Total	Theory	Practical	Total	Internal	Theory	Practical	Total
MRIT 201	Radiation Safety and Protection- AERB guidelines	2	5	7	30	150	180	40	80	80	200
MRIT 202	Modern Radiological and Imaging Equipment	2	5	7	30	150	180	40	80	80	200
MRIT 203	Radiological and Imaging Procedures	2	4	6	30	120	150	40	80	80	200
	Total	6	14	20	90	420	510	120	240	240	600

Second Year Third Semester

Course Code	Course Titles	Credit			Hours			Internal	Marks		
		Theory	Practical	Total	Theory	Practical	Total		Theory	Practical	Total
MRIT 301	Quality Assurance and Quality Control in Diagnostic Radiology and Imaging	2	5	7	30	150	180	40	80	80	200
MRIT 302	Newer Imaging Modalities	2	5	7	30	150	180	40	80	80	200
MRIT 303	Intervention Radiological Techniques and Care of Patient	2	4	6	30	120	150	40	80	80	200
	Total	6	14	20	90	420	510	120	240	240	600

Fourth Semester

Course Code	Course Titles	Credit			Hours			Internal	Marks		
		Theory	Practical	Total	Theory	Practical	Total		Theory	Practical	Total
MRIT 401	Newer Developments in Advanced Imaging Technology	3	5	8	45	150	195	40	80	80	200
MRIT 402	Biostatistics & Basic Research Methodology	3	4	7	45	120	165	40	80	80	200
MRIT 403	Dissertation	1	4	5	15	120	135	100	0	100	200
	Total	7	13	20	105	390	495	180	160	260	600