



BACHELOR OF MEDICAL RADIOLOGY & IMAGING TECHNOLOGY (BMRIT)

COURSE SCHEME

EFFECTIVE FROM

ACADEMIC SESSION: 2026 ONWARDS

DEPARTMENT OF ALLIED HEALTH
(सहबद्ध स्वास्थ्य विभाग)

Faculty of Health Sciences, Jharkhand Rai University, Ranchi

COURSE SCHEME

TEACHING AND EXAMINATION SCHEME																	
Course Name :Bachelor in Medical Radiology and Imaging Technology																	
Duration of Program: Four Years (Eight Semesters)							Pattern : Full Time				Duration : 18 Weeks						
SEMESTER : FIRST																	
S. No.	Course Title	Course Code	Teaching Scheme				Examination Scheme										Grand Total
			L	T	C/P	Credits	Theory				Practical						
							Exam Duration (Hrs.)	CIE Max Mark	ESE Max Marks	Total		CIE Max Marks	ESE Max Marks	Total			
1	Human Anatomy	BMRIT001	3	-	-	3	2.5	30	70	100	50	-	-	-	-	100	
2	Physiology	BMRIT002	3	-	-	3	2.5	30	70	100	50	-	-	-	-	100	
3	Basics of Radiation Physics	BMRIT003	3	-	-	3	2.5	30	70	100	50	30	70#	100	20	200	
4	Introduction to Healthcare	BMRIT004	1	-	-	1	-	30	70*	100	50	-	-	-	-	-	
5	Medical Terminology and Record Keeping	BMRIT005	1	-	-	1	-	30	70*	100	50	-	-	-	-	-	
6	Basic Computers and Information Science	BMRIT006	1	-	-	1	-	30	70*	100	50	-	-	-	-	-	
7	Medical Law and Ethics	BMRIT007	1	-	-	1	-	30	70*	100	50	-	-	-	-	-	
8	Professionalism and Values	BMRIT008	1	-	-	1	-	30	70*	100	50	-	-	-	-	-	
9	Principles of Management	BMRIT009	1	-	-	1	-	30	70*	100	50	-	-	-	-	-	
10	English and Communication Skills	BMRIT010	1	-	-	1	-	30	70*	100	50	-	-	-	-	-	

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Duration of Program: Four Years (Eight Semesters)							Pattern : Full Time					Duration : 18 Weeks						
SEMESTER : THIRD																		
S. No.	Course Title	Course Code	Teaching Scheme				Examination Scheme											Grand Total
			L	T	C/P	Credits	Theory					Practical						
							Exam Duration (Hrs.)	CIE Max Mark	ESE Max Marks	Total		CIE Max Marks	ESE Max Marks	Total				
1	Pathology	BMRJT015	2	-	-	2	2.5	30	70	100	50	-	-	-	-	-	100	
2	Clinical Radiography Positioning (Part II)	BMRJT016	2	1	6	6	2.5	30	70	100	50	30	70#	100	50	-	200	
3	Radiography and Image Processing Techniques	BMRJT017	2	-	2	3	2.5	30	70	100	50	-	-	-	-	-	200	
4	Contrast Media and Special Radiological procedures	BMRJT018	2	1	6	6	2.5	30	70	100	50	30	70#	100	50	-	200	
5	BMRICT Radiology Clinical Education- Part III (Studentship)	BMRICT003	-	-	12	4	-	-	-	-	-	-	-	-	-	-	-	
	Total		6	4	26	21	-	-	-	400	-	-	-	200	-	-	600	
Student Contact Hours Per Week: 36Hrs. Theory and practical periods of 50 minutes each. Medium of Instruction: English Total Marks: 600 Abbreviations: ESE- End Semester Exam, CIE- Continuous Internal Evaluation, L – Lectures ((hrs/week), T - Tutorial, P – Practical {Clinical / Practicals (hrs/week)}																		
*Internal Assessment, # External Assessment.																		

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Course Name :Bachelor in Medical Radiology and Imaging Technology																		
Duration of Program: Four Years (Eight Semesters)								Pattern : Full Time				Duration : 18 Weeks						
SEMESTER : FOURTH																		
S. No.	Course Title	Course Code	Teaching Scheme				Examination Scheme											Grand Total
			L	T	C/P	Credits	Theory					Practical						
							Exam Duration (Hrs.)	CIE Max Mark	ESE Max Marks	Total		CIE Max Marks	ESE Max Marks	Total				
1	Cross sectional Anatomy	BMRJT019	2	-	6	5	-	-	-	-	-	70#	30	100	50	100		
2	Modern Radiological Imaging Equipment and Physics	BMRJT020	2	1	2	3	2.5	70	30	100	50	-	-	-	-	100		
3	Interventional Radiology Techniques	BMRJT021	2	1	4	4	2.5	70	30	100	50	70#	30	100	50	200		
4	Patient Care in Radiology	BMRJT022	1	1	4	4	2.5	70	30	100	50	70#	30	100	50	200		
5	BMRIT Radiology Clinical Education- Part IV (Studentship)	BMRITC004	-	-	12	4	-	-	-	-	-	-	-	-	-	-		
	Total		7	3	26	22	-	-	-	300	-	-	-	300	-	600		
Student Contact Hours Per Week: 36Hrs. Theory and practical periods of 50 minutes each. Medium of Instruction: English Total Marks: 600 Abbreviations: ESE- End Semester Exam, CIE- Continuous Internal Evaluation, L – Lectures ((hrs/week), T - Tutorial, P – Practical {Clinical / Practicals (hrs/week)}																		
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Course Name :Bachelor in Medical Radiology and Imaging Technology																	
Duration of Program: Four Years (Eight Semesters)								Pattern : Full Time				Duration : 18 Weeks					
SEMESTER : FIFTH																	
S. No.	Course Title	Course Code	Teaching Scheme				Examination Scheme										Grand Total
			L	T	C/P	Credits	Theory					Practical					
							Exam Duration (Hrs.)	CIE Max Mark	ESE Max Marks	Total		CIE Max Marks	ESE Max Marks	Total			
1	Basics Techniques in CT Technology	BMRIT023	4	1	8	9	2.5	30	70	100	50	30	70#	100	50	200	
2	Radiation Safety in Diagnostic Radiology	BMRIT024	2	1	4	5	2.5	30	70	100	50	30	70#	100	50	200	
3	Quality Assurance in Diagnostic Radiology and Regulatory Requirements	BMRIT025	1	1	2	3	-	-	-	-	-	30	70#	100	50	100	
4	BMRIT Radiology Clinical Education- Part V (Studentship)	BMRITC005	-	-	12	4	-	-	-	-	-	-	-	-	-	-	
	Total		7	3	26	21	-	-	-	200	-	-	-	300	-	500	
Student Contact Hours Per Week: 36Hrs. Theory and practical periods of 50 minutes each. Medium of Instruction: English Total Marks: 500 Abbreviations: ESE- End Semester Exam, CIE- Continuous Internal Evaluation, L – Lectures ((hrs/week), T - Tutorial, P – Practical {Clinical / Practicals (hrs/week)}																	
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TEACHING AND EXAMINATION SCHEME																	
Course Name :Bachelor in Medical Radiology and Imaging Technology																	
Duration of Program: Four Years (Eight Semesters)								Pattern : Full Time				Duration : 18 Weeks					
SEMESTER : SIXTH																	
S. No.	Course Title	Course Code	Teaching Scheme				Examination Scheme										Grand Total
			L	T	C/P	Credits	Theory					Practical					
							Exam Duration (Hrs.)	CIE	ESE	Total		CIE	ESE	Total			
								Max Mark	Max Marks	Max Marks	Min Marks	Max Marks	Max Marks	Max Marks	Min Marks		
1	Internship (Lab Posting/ Research Dissertation)/ Logbook and Viva	BMRITC007	-	-	-	20	-	-	-	-	-	100	100	200	100	200	

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SEMESTER : SIXTH																	
S. No.	Course Title	Course Code	Teaching Scheme				Examination Scheme										Grand Total
			L	T	C/P	Credits	Theory					Practical					
							Exam Duration (Hrs.)	CIE Max Mark	ESE Max Marks	Total		CIE Max Marks	ESE Max Marks	Total			
1	Internship (Lab Posting/ Research Dissertation)/ Logbook and Viva	BMRITC008	-	-	-	20	-	-	-	-	-	100	100	200	100	200	

Total credits = 170 credits
 Total Contact hours = 6240 hours
 Contact hours of all semesters = (640+640+640+640+640+640) + (1200+1200)

Credit Details:

- Lecture / Tutorial: 1 credit = 15 hours
- Practical: 1 credit = 30 hours
- Clinical Lab postings: 1 credit = 45 hours

Credit Includes: L – Lectures, T - Tutorials, P - Practical.