



**Brainware University**  
**School of Medical and Allied Health Sciences**  
**Department of Allied Health Sciences**  
**Bachelor of Science in Medical Radiology & Imaging Technology (B.Sc. MRIT)**  
**(As per UGC CBCS Template)**

Semester-I

Course Code	Course Name	L - T - P	Credits	Total Marks
HU101	English Communication	3-0-0	3	100
HU191	English Communication lab	0-0-2	1	100
BMRIT101	National Healthcare Delivery System and Medical Laboratory Science (MLS)	4-0-0	4	100
BMRIT191	National Healthcare Delivery System and Medical Laboratory Science (MLS) - Practical	0-0-4	2	100
BMRIT102	Medical Ethics and Patient Safety Management	4-0-0	4	100
BMRIT192	Medical Ethics and Patient Safety Management – Practical	0-0-4	2	100
*BMRIT181	Clinical Observation	0-0-0	0	0
GE**	Generic Elective-1 (Any one from the List of Generic Elective / Interdisciplinary Courses from other Subjects)	4-0-0/5-0-0	4/5	200/ 100
GE**	Generic Elective -1 (Practical/Tutorial)	0-0-4/0-1-0	2/1	
<b>Total</b>			<b>22</b>	<b>800/700</b>

Semester-II

Course Code	Course Name	L	T	P	Credit	Total Marks
EVS201	Environmental Science	3	1	0	4	100
BMRIT201	Human Anatomy and Physiology part-1	4	0	0	4	100
BMRIT291	Human Anatomy and Physiology-part-1-Practical	0	0	4	2	100
BMRIT202	Fundamental Physics and Radiological Physics	4	0	0	4	100
BMRIT292	Fundamental Physics and Radiological Physics - Practical	0	0	4	2	100
BMRIT203	Conventional Radiography and equipment	4	0	0	4	100
BMRIT204	Radiographic and Image processing Techniques	4	0	0	4	100
BMRIT294	Radiographic and Image processing Techniques- Practical	0	0	4	2	100
BMRIT281	Clinical Observation	0	0	0	0	0
GE**	Generic Elective-2 (Any one from the List of Generic Elective / Interdisciplinary Courses from other Subjects)	4-0-0/5-0-0			4/5	200/100
GE**	Generic Elective -2 (Practical/Tutorial)	0-0-4/0-1-0			2/1	
<b>Total</b>					<b>32</b>	<b>1000/900</b>



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**Semester-III**

Course Code	Course Name	L	T	P	C	Total Marks
BMRIT301	Human Anatomy and Physiology including Pathology Part-2	3	1	0	4	100
BMRIT391	Human Anatomy and Physiology including Part-2-Practical	0	0	4	2	100
BMRIT302	Pathology	4	0	0	4	100
BMRIT303	Clinical Radiography- Positioning Part 1	4	0	0	4	100
BMRIT393	Clinical Radiography- Positioning Part 1-Practical	0	0	4	2	100
BMRIT304	Modern Radiological & Imaging Equipment	4	0	0	4	100
BMRIT305	Contrast & Special Radiography procedures	4	0	0	4	100
BMRIT395	Contrast & Special Radiography procedures-Practical	0	0	4	2	100
BMRIT381	Clinical Observation	0	0	0	0	0
GE**	Generic Elective-3 (Any one from the List of Generic Elective / Interdisciplinary Courses from other Subjects)	4-0-0/5-0-0			4/5	200/100
GE**	Generic Elective -3 (Practical/Tutorial)	0-0-4/0-1-0			2/1	
<b>Total</b>					<b>32</b>	<b>1000/900</b>

**Semester-IV**

Course Code	Course Name	L	T	P	C	Total Mark
BMRIT401	Physics of Newer Imaging Modalities	4	0	0	4	100
BMRIT402	Clinical Radiography Positioning Part 2	4	0	0	4	100
BMRIT492	Clinical Radiography Positioning Part 2-Practical	0	0	4	2	100
BMRIT403	Modern Radiological & Imaging Techniques including Patient Care	4	0	0	4	100
BMRIT404	Quality Control in Radiology and Radiation Safety	4	0	0	4	100
BMRIT494	Quality Control in Radiology and Radiation Safety-Practical	0	0	4	2	100
BMRIT481	Clinical Observation	0	0	0	0	0
GE**	Generic Elective-4 (Any one from the List of Generic Elective / Interdisciplinary Courses from other Subjects)	4-0-0/5-0-0			4/5	200/100
GE**	Generic Elective -4 (Practical/Tutorial)	0-0-4/0-1-0			2/1	
<b>Total</b>					<b>26</b>	<b>800/700</b>



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**Semester-V**

<b>Course Code</b>	<b>Course Name</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>	<b>Total Marks</b>
BMRIT501	Cross sectional anatomy and Physiology	4	0	0	4	100
BMRIT591	Cross sectional anatomy and Physiology-Practical	0	0	4	2	100
BMRIT502	Physics of Advanced Imaging Technology	4	0	0	4	100
BMRIT503	Radiographic Techniques of Advanced Imaging Technology	4	0	0	4	100
BMRIT593	Radiographic Techniques of Advanced Imaging Technology-Practical	0	0	4	2	100
BMRIT504	Regulatory Requirements in Diagnostic Radiology & Imaging, Act and rules, regulations for JCI, NABH, NABHR.	4	0	0	4	100
BMRIT581	Clinical Observation	0	0	0	0	0
<b>Total</b>					<b>20</b>	<b>600</b>

**Semester-VI**

<b>Course Code</b>	<b>Course Name</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>	<b>Total Marks</b>
BMRIT601	Quality Assurance & Radiation Safety (AERB Guidelines) in Diagnostic Radiology	4	0	0	4	100
BMRIT691	Quality Assurance & Radiation Safety (AERB Guidelines) in Diagnostic Radiology-Practical	0	0	4	2	100
BMRIT602	Hospital Practice & Care of Patients	4	0	0	4	100
BMRIT603	Research Methodology	4	0	0	4	100
BMRIT681	Clinical Observation	0	0	0	0	0
BMRIT606	Seminars, Journal club & Group Discussions	2	0	0	2	100
<b>Total</b>					<b>16</b>	<b>500</b>



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**SEMESTER VII**

<b>Course Code</b>	<b>Course Name</b>	<b>Duration</b>	<b>Credits</b>	<b>Total Marks</b>
BMRIT781	Internship-I	6 Months	10	100

**SEMESTER VIII**

<b>Course Code</b>	<b>Course Name</b>	<b>Duration</b>	<b>Credits</b>	<b>Total Marks</b>
BMRIT881	Internship-II	6 Months	10	100