



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	
Total			22	800/700

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	
Total					32	1000/900



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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	
Total					32	1000/900

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	
Total					26	800/700



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Semester-V

Course Code	Course Name	L	T	P	C	Total Marks
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
Total					20	600

Semester-VI

Course Code	Course Name	L	T	P	C	Total Marks
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
Total					16	500



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Semester-VII

Course Objective

Students shall be deputed to various diagnostic center of radiology department wherein they shall undergo practical training of handling patients and processing of images. Identification of patient's particulars based on CR number, Lab Number and transfer of reports from different labs. Process of performing various procedures in different labs. Each student is required to maintain a logbook of the various posting. Student's performance shall be evaluated on continuous basis by the faculty after the completion of the internship.

Course Code	Course Name	Credits	Total Marks
BMRIT781	Internship (6 months)	14	200

Assessment:

Clinical Log book	50
Professional Clinical Exam	100
VIVA	50

Total Credit: 162