



**BRAINWARE UNIVERSITY**  
**School of Medical and Allied Health Sciences**  
**Department of Allied Health Science**  
**Bachelor of Science in Medical Radiology & Imaging Technology (B.Sc. MRIT)-2023**  
**(As per UGC CBCS Template)**

**SEMESTER I**

<b>Course Code</b>	<b>Course Name</b>	<b>Type of Course</b>	<b>L - T - P</b>	<b>Credits</b>	<b>Total Marks</b>
EVS101	Environmental Science	AECC1	2-0-0	2	100
BMRITC101	Human Anatomy & Physiology Part I	CC1	4-0-0	4	100
BMRITC102	Clinical Biochemistry & General Pathology	CC2	4-0-0	4	100
BMRITC103	Introduction to National Healthcare system & Medical Laboratory Sciences	CC3	3-0-0	3	100
BMRITC191	Human Anatomy & Physiology Part I- Practical	CC1	0-0-2	1	100
BMRITC193	Introduction to National Healthcare system & Medical Laboratory Sciences-Practical (Including Hospital Visit)	CC3	0-0-2	1	100
GE	Generic Elective-1 (Any one from the List of Generic Elective / Interdisciplinary Courses from other Subjects)	GE1	4-0-0/ 5-0-0	4/5	100
GE	Generic Elective -1 (Practical/Tutorial)	GE1	0-0-4/ 0-1-0	2/1	100
<b>TOTAL</b>			<b>25/23</b>	<b>21</b>	<b>800</b>



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**SEMESTER II**

Course Code	Course Name	Type of Course	L - T - P	Credits	Total Marks
HU201	English Communication	AECC2	1-0-0	1	50
BMRITC201	Human Anatomy & Physiology Part II	CC4	4-0-0	4	100
BMRITC202	Fundamental Physics & Radiological Physics	CC5	4-0-0	4	100
BMRITC203	Radiographic Image processing Techniques	CC6	4-0-0	4	100
HU291	English Communication-Practical	AECC2	0-0-2	1	50
BMRITC291	Human Anatomy & Physiology Part II- Practical	CC4	0-0-2	1	100
BMRITC292	Fundamental Physics & Radiological Physics- Practical	CC5	0-0-2	1	100
BMRITC293	Radiographic Image processing Techniques- Practical	CC6	0-0-2	1	100
GE	Generic Elective-1 (Anyone from the List of Generic Elective / Interdisciplinary Courses from other Subjects)	GE2	4-0-0/ 5-0-0	4/5	100
GE	Generic Elective -1 (Practical/Tutorial)	GE2	0-0-4/ 0-1-0	2/1	100
<b>TOTAL</b>			<b>29/27</b>	<b>23</b>	<b>900</b>



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**SEMESTER III**

Course Code	Course Name	Type of Course	L - T - P	Credits	Total Marks
BMRITC301	Radiographic Techniques of Mammography, DEXA, Oral Radiography with Image Interpretation	CC7	3-0-0	3	100
BMRITC302	Clinical Radiography- Positioning Part I	CC8	3-0-0	3	100
BMRITC303	Physic of Conventional Radiographic and Imaging equipment	CC9	3-0-0	3	100
BMRITS304	Contrast & Special Radiography procedures	SEC1	3-0-0	3	100
BMRITC305	Radiation safety & Hazards	CC10	3-0-0	3	100
BMRITC392	Clinical Radiography- Positioning Part I-Practical	CC8	0-0-2	1	100
BMRITS394	Contrast & Special Radiography Procedures-Practical	SEC1	0-0-2	1	100
BMRITS381	Clinical Observership-I (Radiography and Fluoroscopy)	SEC2	-	3	100
GE	Generic Elective-1 (Any one from the List of Generic Elective / Interdisciplinary Courses from other Subjects)	GE3	4-0-0/ 5-0-0	4/5	100
GE	Generic Elective -1 (Practical/Tutorial)	GE3	0-0-4/ 0-1-0	2/1	100
<b>TOTAL</b>			<b>27/25</b>	<b>26</b>	<b>1000</b>



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**SEMESTER IV**

<b>Course Code</b>	<b>Course Name</b>	<b>Type of Course</b>	<b>L - T - P</b>	<b>Credits</b>	<b>Total Marks</b>
BMRITC401	Clinical Radiography- Positioning Part II	CC11	3-0-0	3	100
BMRITC402	Physic of Modern Radiographic and Imaging equipment- Digital Radiography,CT	CC12	3-0-0	3	100
BMRITC403	Radiographic Techniques of CT Including Image Interpretation	CC13	3-0-0	3	100
BMRITC491	Clinical Radiography- Positioning Part II-Practical	CC11	0-0-2	1	100
BMRITC493	Radiographic Techniques of CT Including Image Interpretation- Practical	CC13	0-0-2	1	100
BMRITS482	Clinical Observership-II (Radiography, Specialized Imaging Modalities)	SEC3	-	3	100
GE	Generic Elective-1 (Any one from the List of Generic Elective / Interdisciplinary Courses from other Subjects)	GE4	4-0-0/ 5-0-0	4/5	100
GE	Generic Elective -1 (Practical/Tutorial)	GE4	0-0-4/ 0-1-0	2/1	100
<b>TOTAL</b>			<b>21/19</b>	<b>20</b>	<b>800</b>



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**SEMESTER V**

<b>Course Code</b>	<b>Course Name</b>	<b>Type of Course</b>	<b>L - T - P</b>	<b>Credits</b>	<b>Total Marks</b>
BMRITC501	Physics of Advanced Imaging Equipment-MRI	CC14	4-0-0	4	100
BMRITC502	Cross section anatomy & physiology CT and MRI Part-I	CC15	4-0-0	4	100
BMRITC503	Protocol and procedure of MRI	CC16	4-0-0	4	100
BMRITC592	Cross section anatomy & physiology CT and MRI Part-I- Practical	CC15	0-0-2	1	100
BMRITC593	Protocol and procedure of MRI	CC16	0-0-4	2	100
BMRITS583	Clinical Observership-III (CT, MRI)	SEC4	-	3	100
<b>TOTAL</b>			<b>18</b>	<b>18</b>	<b>600</b>



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**SEMESTER VI**

Course Code	Course Name	Type of Course	L - T - P	Credits	Total Marks
BMRITC601	Basic Nuclear Medicine Technology	CC17	4-0-0	4	100
BMRITC602	Interventional Radiology	CC18	4-0-0	4	100
BMRITC603	Quality Control and Quality Assurance of Radiological Equipment including AERB guidelines	CC19	4-0-0	4	100
BMRITC604	Ultrasonography & Echocardiography	CC20	4-0-0	4	100
BMRITC605	Medical Law & ethics including Patient Care Technique in Radio-diagnosis	CC21	4-0-0	4	100
BMRITC606	Research Methodology	CC22	3-0-0	3	100
BMRITS684	Project Work	SEC5	-	3	100
<b>TOTAL</b>			<b>23</b>	<b>26</b>	<b>700</b>

**SEMESTER VII**

Course Code	Course Name	Types of Course	Duration	Credits	Total Marks
BMRITS781	Internship I	SEC6	6 Months	10	100

**SEMESTER VIII**

Course Code	Course Name	Types of Course	Duration	Credits	Total Marks
BMRITS881	Internship II	SEC7	6 Months	10	100

**TOTAL CREDIT: 154**  
**TOTAL MARKS: 5000**