



**BRAINWARE UNIVERSITY**  
**SCHOOL OF MEDICAL & ALLIED HEALTH SCIENCES**  
**DEPARTMENT OF ALLIED HEALTH SCIENCES**  
**Bachelor of Medical Radiology and Imaging Technology - 2026**  
**(As per NCAHP Guideline)**

**Programme Overview:** This programme is designed to provide students with comprehensive theoretical knowledge, practical skills, and clinical exposure in diagnostic radiology and medical imaging sciences. The curriculum emphasizes patient care, radiation safety, imaging techniques, ethical practice, and hands-on clinical training to prepare competent radiology professionals.

**Programme Structure:**

<b>Foundation courses (12 credits)</b>	<ol style="list-style-type: none"> <li>1. Human Anatomy</li> <li>2. Human Physiology</li> <li>3. Pathology</li> <li>4. Basics of Microbiology</li> <li>5. Basics of Biochemistry</li> </ol>
<b>Core courses (82 credits)</b>	<ol style="list-style-type: none"> <li>1. Basics of Radiation Physics</li> <li>2. Conventional Radiography and Equipment</li> <li>3. Clinical Radiography Positioning (Part I)</li> <li>4. Clinical Radiography Positioning (Part II)</li> <li>5. Radiography and Image Processing Techniques</li> <li>6. Contrast Media and Special Radiological Procedures</li> <li>7. Cross-sectional Anatomy</li> <li>8. Modern Radiological Imaging Equipment and Physics</li> <li>9. Interventional Radiology Techniques</li> <li>10. Patient Care in Radiology</li> <li>11. Basic Techniques in CT Technology</li> <li>12. Radiation safety in Diagnostic Radiology</li> <li>13. Quality Assurance in Diagnostic Radiology and Regulatory Requirements</li> <li>14. Basic Techniques in MRI Technology</li> <li>15. Introduction to Nuclear Medicine Techniques</li> <li>16. Ultrasound Techniques</li> </ol>
<b>Programme Courses (09 Credits)</b>  <b>MC- Mandatory Course [#] (Credit will not be considered in SGPA/CGPA calculation)</b>	<ol style="list-style-type: none"> <li>1. Introduction to Healthcare</li> <li>2. Medical Terminology and Record Keeping</li> <li>3. Basics of Computers and Information Science</li> <li>4. Medical Law and Ethics</li> <li>5. Professionalism and Values</li> <li>6. Principles of Management</li> <li>7. English and Communication Skills</li> <li>8. Methodology</li> </ol>
<b>Clinical Education (27 Credits)</b>	<ol style="list-style-type: none"> <li>1. Clinical Observership- Part I</li> <li>2. Clinical Observership- Part II</li> <li>3. Clinical Observership- Part III</li> <li>4. Clinical Observership- Part IV</li> <li>5. Clinical Observership- Part V</li> <li>6. Clinical Observership- Part VI</li> </ol>
<b>40 Credits</b>	Internship
<b>Total credits: 170</b>	

**Special Category Courses:** Certain courses follow a modified examination pattern in accordance with academic regulations.

Course Code	Examination Pattern	Academic Note
BMR203, BMR304, BMR402, BMR602	Theory Only (CIA+TEE)	Practical classes will be conducted as part of the curriculum; however, no university practical examination (CIA+TEE) will be held for these courses.
BMR491, BMR693	Practical Only (CIA+TEE)	Theory classes will be conducted as part of the curriculum; however, no university theory examination (CIA+TEE) will be held for these courses.

**Total Credit: 161 + (9)**

**Credit Conversion (B. MRIT)**

**Theory: 1 Credit = 1 Hour (Lecture)**

**Practical / Laboratory: 1 Credit = 2 Hours (Practical/Lab work)**

**Clinical: 1 Credit = 3 Hours (Clinical Training)**



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**Semester I**

Sl. No	Course Code	Course Name	L	T	P/C	Evaluation Scheme		Total	Credits	Course Type
						CIA	TEE			
1	BMR171	Human Anatomy	2	0	2	30	70	100	3	Foundation Course
2	BMR172	Human Physiology	2	0	2	30	70	100	3	Foundation Course
3	BMR173	Basics of Radiation Physics	2	0	6	60	140	200	5	Core Course
4	MC-BMR104	Introduction to Healthcare [#]	1	0	0	30	70	-	1	Program Course
5	MC-BMR105	Medical Terminology and Record Keeping [#]	1	0	0	30	70	-	1	Program Course
6	MC-BMR106	Basics of Computers and Information Science [#]	1	0	0	30	70	-	1	Program Course
7	MC-BMR107	Medical Law and Ethics [#]	1	0	0	30	70	-	1	Program Course
8	MC-BMR108	Professionalism and Values [#]	1	0	0	30	70	-	1	Program Course
9	MC-BMR109	English and Communication Skills [#]	1	0	0	30	70	-	1	Program Course
10	BMR181	Clinical Observership- Part I	0	0	15	100	-	100	5	Clinical Education
<b>Total</b>			<b>12</b>	<b>0</b>	<b>25</b>	<b>-</b>	<b>-</b>	<b>500</b>	<b>16 + (6)</b>	

**MC- Mandatory Course [#] (Credit will not be considered in SGPA/CGPA calculation)**

**Semester II**

Sl. No	Course Code	Course Name	L	T	P/C	Evaluation Scheme		Total	Credits	Course Type
						CIA	TEE			
1	BMR201	Basics of Microbiology	2	0	0	30	70	100	2	Foundation Course
2	BMR202	Basics of Biochemistry	2	0	0	30	70	100	2	Foundation Course
3	BMR203	Conventional Radiography and Equipment	4	0	2	30	70	100	5	Core Course
4	BMR274	Clinical Radiography Positioning (Part I)	4	1	6	60	140	200	8	Core Course
5	MC-BMR205	Principles of Management [#]	1	0	0	30	70	-	1	Program Course
6	BMR282	Clinical Observership- Part II	0	0	15	100	-	100	5	Clinical Education
<b>Total</b>			<b>13</b>	<b>1</b>	<b>23</b>	<b>-</b>	<b>-</b>	<b>600</b>	<b>22 + (1)</b>	

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**Semester III**

Sl. No	Course Code	Course Name	L	T	P/C	Evaluation Scheme		Total	Credits	Course Type
						CIA	TEE			
1	BMR301	Pathology	2	0	0	30	70	100	2	Foundation Course
2	BMR372	Clinical Radiography Positioning (Part II)	2	1	6	60	140	200	6	Core Course
3	BMR373	Contrast Media and Special Radiological Procedures	2	1	6	60	140	200	6	Core Course
4	BMR304	Radiography and Image Processing Techniques	2	0	2	30	70	100	3	Core Course
5	BMR383	Clinical Observership- Part III	0	0	12	100	-	100	4	Clinical Education
<b>Total</b>			<b>8</b>	<b>2</b>	<b>26</b>	<b>-</b>	<b>-</b>	<b>700</b>	<b>21</b>	

**Semester IV**

Sl. No	Course Code	Course Name	L	T	P/C	Evaluation Scheme		Total	Credits	Course Type
						CIA	TEE			
1	BMR491	Cross-sectional Anatomy	2	0	6	30	70	100	5	Core Course
2	BMR402	Modern Radiological Imaging Equipment and Physics	2	1	2	30	70	100	4	Core Course
3	BMR473	Interventional Radiology Techniques	2	1	4	60	140	200	5	Core Course
4	BMR474	Patient Care in Radiology	1	1	4	60	140	200	4	Core Course
5	BMR484	Clinical Observership- Part IV	0	0	12	100	-	100	4	Clinical Education
<b>Total</b>			<b>7</b>	<b>3</b>	<b>28</b>	<b>-</b>	<b>-</b>	<b>700</b>	<b>22</b>	

**Semester V**

Sl. No	Course Code	Course Name	L	T	P/C	Evaluation Scheme		Total	Credits	Course Type
						CIA	TEE			
1	BMR571	Basic Techniques in CT Technology	4	1	8	60	140	200	9	Core Course
2	BMR572	Radiation Safety in Diagnostic Radiology	2	1	4	60	140	200	5	Core Course
3	BMR503	Ultrasound Techniques	2	1	0	30	70	100	3	Core Course
4	BMR585	Clinical Observership- Part V	0	0	12	100	-	100	4	Clinical Education
<b>Total</b>			<b>8</b>	<b>3</b>	<b>24</b>	<b>-</b>	<b>-</b>	<b>600</b>	<b>21</b>	



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**Semester VI**

Sl. No	Course Code	Course Name	L	T	P/C	Evaluation Scheme		Total	Credits	Course Type
						CIA	TEE			
1	BMR671	Basic Techniques in MRI Technology	3	1	8	60	140	200	8	Core Course
2	BMR602	Introduction to Nuclear Medicine Techniques	1	1	2	30	70	100	3	Core Course
3	BMR693	Quality Assurance in Diagnostic Radiology and Regulatory Requirements	1	1	2	30	70	100	3	Core Course
4	MC-BMR604	Biostatistics and Research Methodology [#]	2	0	0	30	70	-	2	Program Course
5	BMR686	Clinical Observership- Part VI	0	0	15	100	-	100	5	Clinical Education
<b>Total</b>			<b>7</b>	<b>3</b>	<b>27</b>	<b>-</b>	<b>-</b>	<b>500</b>	<b>19 + (2)</b>	

MC- Mandatory Course [#] (Credit will not be considered in SGPA/CGPA calculation)

**Semester VII**

Sl. No	Course Code	Course Name	L	T	P/C	Evaluation Scheme		Total	Credits	Course Type
						CIA	TEE			
1	BMR781	Internship - I	-	-	-	-	200	200	20	Internship

**Semester VIII**

Sl. No	Course Code	Course Name	L	T	P/C	Evaluation Scheme		Total	Credits	Course Type
						CIA	TEE			
1	BMR881	Internship - II	-	-	-	-	200	200	20	Internship