

**MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL**

**(Formerly West Bengal University of Technology)**

**Syllabus of B. Sc Medical image Technology**

**(Effective from 2023-24 Academic Sessions)**

**Model curriculum structure for 4 year UG programs Medical Imaging Technology major with computer minor**

<b>Semester</b>	<b>Major</b>	<b>Minor</b>	<b>Inter Disciplinary</b>	<b>Ability Enhancement</b>	<b>Skill Enhancement(Online /Sessional)</b>	<b>Common Value added (SESSIONAL)</b>	<b>Total credits</b>
<b>I</b>	<b>BMMIT-1101 Human anatomy</b>  <b>BMMIT-1191 Lab on Human anatomy 5 credits(3L+2P)</b>  <b>BMMIT1102 Biochemistry</b>  <b>BMMIT1192 Lab on Biochemistry 5 credits(3L+2P)</b>	Computer Fundamental <b>(3credits=3Lh/ wk)</b>	Any one from GE baskets A /D(3 credits)	English & Professional Communication (2 credits)	Life Skills & Personality Development (2 credits)	Yoga/ Health& Wellness/ physical fitness  (2 credits)	22
<b>II</b>	<b>BMMIT-2101 Basics of Human Physiology</b>  <b>BMMIT-2191 Lab on Human Physiology</b>	Management Information System <b>(3credits=3Lh/ wk)</b>	Any one from GE baskets B/E(3 credits)	Modern Indian Languages and Literature (2 credits)	IT Skills (2 credits)	Critical Thinking / NSS/ Mental Health  (2 credits)	22

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<b>5 credits(3L+2P)</b>					
<b>BMMIT-2102 Fundamental Physics and basics of Radiation Physics</b>					
<b>BMMIT-2192 Lab on Radiation Physics 5 credits(3L+2P)</b>					

<b>Sem este r</b>	<b>Major</b>	<b>Minor</b>	<b>Inter Disciplinary</b>	<b>Ability Enhancement</b>	<b>Skill Enhancement(Onlin e /Sessional)</b>	<b>Common Value added(SESSI ONAL)</b>	<b>Total credits</b>
<b>III</b>	<b>BMMIT-3201 Basic Microbiology</b>  <b>BMMIT-3291 Lab on Microbiology</b>  <b>5 credits(3L+2P)</b>	Word and PowerPoint & Spreadsheet Application with Excel <b>4 credits (2L+2P)/wk</b>	Any one from GE baskets C/F (3 credits)	The Constitution, Human Rights and Law (2 credits) (2 L)	Understanding and connecting with environment (2 credits)		21

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	<p><b>BMMIT-3202 Hematology and clinical pathology</b></p> <p><b>BMMIT-3292 Lab on Hematology and clinical pathology 5 credits(3L+2P)</b></p>						
IV	<p><b>BMMIT-4201 Equipment for Medical Imaging 4 credits (4L)</b></p>	<p>Database Management with SQL (4 credits) <b>(2L+2P)</b></p>		The constitution and Human Rights (2 credits)			23
	<p><b>BMMIT-4202 Medical Terminology and Patient care in Diagnostic Technology 4 credits 4L</b></p>	<p>Graphic Design with PhotoShop &amp; Illustrator (4 credits) <b>(2L+2P)</b></p>					

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	<p><b>BMMIT-4203 Clinical Radiography and positioning</b></p> <p><b>BMMIT-4293 Lab on Clinical Radiography and positioning 5 credits(3+2)</b></p>						
V	<p><b>BMMIT5301 Digital Imaging &amp; Image processing methods</b></p> <p><b>BMMIT-5391 Lab on Digital Imaging &amp; Image processing methods 2cr 5 credits(3+2)</b></p>	<p>Cloud Computing (4 credits) 2L+2P</p> <p>E-commerce and Application (4 credits) 2L+2P</p>			<p>Internship to be started after exam of 4<sup>th</sup>sem (sem break) and completed within 5<sup>th</sup>sem (weekends) (4 credits)</p>		22

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	<b>BMMIT5302 Dark Room Techniques</b>  <b>BMMIT5392 Lab on Dark Room Techniques</b> <b>5 credits(3+2)</b>						
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Semester	Major	Minor	Inter Disciplinary	Ability Enhancement	Skill Enhancement(Online /Sessional)	Common Value added(SESSIONAL)	Total credits
VI	<b>BMMIT-6301 Orthopedics in Radiology</b>  <b>BMMIT-6391 Lab on Orthopedics in Radiology</b> <b>5 credits(3+2)</b>	Web Development with HTML and CSS (4 credits) 2L+2P					22
	<b>BMMIT6302 Dental Radiography BMMIT6392 Lab on Dental Radiography</b>	Internet and Networking (4 credits) 3L+1T					

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	<b>5 credits(3+2)</b>						
	<b>BMMIT-6303</b> <b>Medical Ethics,</b> <b>Biosafety and IPR</b> <b>4credits (4L)</b>						

<b>Sem ester</b>	<b>Major</b>	<b>Minor</b>	<b>Inter Disciplinary</b>	<b>Ability Enhancement</b>	<b>Skill Enhancement(Online /Sessional)</b>	<b>Common Value added (Sessional)</b>	<b>Total credits</b>
<b>VII</b>	<b>BMMIT7401</b> <b>Advanced Imaging techniques and recent trends</b>  <b>BMMIT7491</b> <b>Lab on Advanced Imaging techniques and recent trends</b> <b>5 credits(3+2)</b>	Software Project Management (4 credits) 3L+1T					22

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	<b>BMMIT7402</b> <b>Quality control, Radiobiology, and Radiation safety in Radiodiagnosis and imaging other than x-ray related</b>	Digital Marketing (4 credits) 3L+1T					
<b>BMMIT7492</b> <b>Lab on Quality control, Radiobiology, and Radiation safety in Radiodiagnosis and imaging other than x-ray related</b> 5 credits(3+2)							
<b>BMMIT7403</b> <b>Research Methodology</b> 4 credits							

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<b>VIII</b>	<b>BMMIT8401 Contrast and special Radiography procedures</b>				Research project 12 credits		22
	<b>BMMIT8491 Lab on Contrast and special Radiography procedures 5 credits(3+2)</b>						
	<b>BMMIT8402 Interventional procedures and critical case study 5 credits(4L+1T)</b>						
	<b>19 sub - 91 credits</b>	<b>11 sub – 42 credits</b>	<b>3 sub – 09 credits</b>	<b>4 sub – 08 credits</b>	<b>3 sub &amp; Int &amp;Proj - 22 credits</b>	<b>2 sub – 4 credits</b>	<b>176</b>

Note:

Normally all 5 credit courses will be either theory (3) + practical (2) [100+100 marks] or theory (4) + tutorial (1) [100 marks]

Normally all 4 credit courses will be either theory (3) + tutorial (1) or theory (4) [100 marks]

Normally all 3 credit courses will be theory (3) – Inter disciplinary (5 to 6 baskets) [100 marks]

Normally all 2 credit courses AEC/SEC/CVA would be theory or online/sessional course

For online course (Skill Enhancement Course) 2 credits=30 hours.