Graduate Attributes

By the end of the program the students will be able to:
- **Understand that this medical science program is aimed at providing excellent carrier opportunity for the students.**
- **Understand the methods and procedures involved during the creation of images of human parts for the purpose of clinical diagnosis or medical science.**
- **Know all major areas of modern medical sciences along with physics including Biochemistry, Anatomy, physiology, Radiation physics, all advanced technologies etc.**
- **get an overall exposure to various aspects with a learning outcome**
- **To learn basic anatomy and physiology relevant to imaging**
- **To learn basic physics with respect to each imaging modality**
- **to perform diagnostic radiology procedures safely and effectively**
- **to perform necessary post-processing of images**
- **to learn concepts of prevention of infection during Imaging procedures**
- **to understand the importance of radiation protection and radiation safety during imaging procedures**

Curriculum Structure

SEM-1

Sl.	Subject Type	Code	Subject Name	Credits			Total Credits
				L	T	P	
1.	DSC	BMMIT-1101 & BMMIT-1191	Human anatomy	3	0	2	3+2
2.		BMMIT1102 & BMMIT1192	Biochemistry	3	0	2	3+2
3.	DSE	MIC101	Computer Fundamental	3	0	0	3
4.	GE		Any one from GE Basket A/D	3	0	0	3
5.	AECC	AECC101	English & Professional Communication	2	0	0	2
6.	SEC	SEC181	Life Skills & Personality Development	2	0	0	2
7.	VAC	VAC181A/B/C	Yoga/ Health& Wellness/ Sports / Physical Fitness and Wellness/Community Services	2	0	0	2
			Total Credit				22

SEM-2

Sl.	Subject Type	Code	Subject Name	Credits			Total Credits
				L	T	P	
1.	DSC	BMMIT-2101 & BMMIT-2191	Basics of Human Physiology	3	0	2	3+2
2.		BMMIT-2102 & BMMIT-2192	Fundamental Physics and basics of Radiation Physics	3	0	2	3+2
3.	DSE	MIC201	Management Information System	3	0	0	3
4.	GE		Any one from GE Basket B/E	3	0	0	3
5.	AECC	AECC201	Modern Indian Languages and Literature	2	0	0	2
6.	SEC	SEC201	ITSkills	2	0	0	2
7.	VAC	VAC281A/B/C	Critical Thinking / NSS/ Mental Health/ Environmental Studies	2	0	0	2
			Total Credit				22

SEM-3

Sl.	Subject Type	Code	Subject Name	Credits			Total Credits
				L	T	P	
1.	DSC	BMMIT-3201 & BMMIT-3291	Basic Microbiology	3	0	2	3+2
2.		BMMIT-3202 & BMMIT-3292	Hematology and clinical pathology	3	0	2	3+2
3.	DSE	MIC301	Word and PowerPoint & Spreadsheet Application with Excel	3	1	0	4
4.	GE		Any one from GE Basket C/F	3	0	0	3
5.	AECC	AECC301	The Constitution and Human Rights	2	0	0	2
6.	SEC	SEC301	Understanding basics of Cyber Security	2	0	0	2
			Total Credit				21

SEM-4

Sl.	Subject Type	Code	Subject Name	Credits			Total Credits
				L	T	P	
1.	DSC	BMMIT-4201	Equipment for Medical Imaging	4	0	0	4
2.		BMMIT-4202	Medical Terminology and Patient care in Diagnostic Technology	4	0	0	4
3.		BMMIT-4203 & BMMIT-4293	Clinical Radiography and positioning	3	0	2	3+2
4.	DSE	MIC401	Basics of Operating System/ Database Management with SQL	3	1	0	4
5.		MIC402	Graphic Design with Photoshop and Illustrator/ Unix And Shell	3	1	0	4
6.	AECC	AECC401	Universal Human Values (UHV)	2	0	0	2
			Total Credit				23

SEM-5

Sl.	Subject Type	Code	Subject Name	Credits			Total Credits
				L	T	P	
1.	DSC	BMMIT5301 & BMMIT5391	Digital Imaging & Image processing methods	3	0	2	3+2
2.		BMMIT5302 & BMMIT5392	Dark Room Techniques	3	0	2	3+2
3.	DSE	MIC501	Cloud Computing /Introduction to Computer Network	3	1	0	4
4.		MIC502	E-commerce and Application	3	1	0	4
5.	SEC	SEC581	Internship to be started after exam of 4th sem (sem break) and completed within 5th sem (weekends)	0	0	4	4
			Total Credit				22

SEM-6

Sl.	Subject Type	Code	Subject Name	Credits			Total Credits
				L	T	P	
1.	DSC	BMMIT-6301 & BMMIT-6391	**Orthopedics in Radiology**	3	0	2	3+2
2.		BMMIT6302 & BMMIT6392	**Dental Radiography**	3	0	2	3+2
3.		BMMIT-6303	**Medical Ethics, Biosafety and IPR**	3	1	0	4
4.	DSE	MIC601	**Web Development with HTML and CSS**	3	1	0	4
5.		MIC602	**Internet and Networking /ERP**	3	1	0	4
Total Credit							22

SEM-7

Sl.	Subject Type	Code	Subject Name	Credits			Total Credits
				L	T	P	
1.	DSC	BMMIT 7401 & BMMIT 7491	**Advanced Imaging techniques and recent trends**	3	0	2	3+2
2.		BMMIT 7402 & BMMIT 7492	**Quality control, Radiobiology, and Radiation safety in Radiodiagnosis and imaging other than x-ray related**	3	0	2	3+2
3.		BMMIT 7403	**Research Methodology**	4	0	0	4
4.	DSE	MIC701	**Software Project Management /Introduction To Cyber Security and Cyber Laws**	3	1	0	4
5.		MIC702	**Digital Marketing/ Data Analysis and Interpretation**	3	1	0	4
Total Credit							22

SEM-8

Sl.	Subject Type	Code	Subject Name	Credits			Total Credits
				L	T	P	
1.	DSC	BMMIT8401 & BMMIT8491	**Contrast and special Radiography procedures**	3	0	2	3+2
2.		BMMIT8402	**Interventional procedures and critical case study**	4	1	0	5
4.	SEC	SEC881	**Internship & Research Project/ Dissertation**	0	0	12	12
			Total Credit				22