

# SYLLABUS FOR THE BACHELOR OF MEDICAL RADIOGRAPHY & IMAGING TECHNOLOGY (BMRT) COURSE

Category definition with credit breakup

Semester	Credit						Total/Sem
	CC	DSE	GE	AECC	SEC	USC	
First	12		4	2		2	20
Second	12	6	4	2	1	2	27
Third	12	6	4	2	1	2	27
Fourth	12	6	4	2	1	2	27
Fifth	18	6			1		25
Sixth	24						24
Total Credit/ Course	90	24	16	8	4	8	
<b>Total Credit</b>							<b>150</b>

CC: Core Courses; GE: General Elective; AECC: Ability Enhancement Compulsory Course;  
SEC: Skill Enhancement Courses; DSE: Discipline Specific Elective; USC: University specified course

## First Year

Category	Course Name	Credit	Teaching Scheme		
			L	T	P
<b>Semester - I</b>					
CC – 1	Human Anatomy I	4	4	0	0
	Human Anatomy I Lab	2	0	0	4
CC – 2	Human Physiology	4	4	0	0
	Human Physiology Lab	2	0	0	4
GE – 1	Generic Elective	4	4	0	0
AECC – 1	Communicative English – I	2	2	0	0
USC – 1	Foreign Language I	2	2	0	0
<b>Total Credit = 20</b>			<b>Teaching Hour = 24</b>		
<b>Semester - II</b>					
CC – 3	Basic Biochemistry & Microbiology	4	4	0	0
	Basic Biochemistry & Microbiology Lab	2	0	0	4
CC – 4	Basic Physics with an introduction to Plasma	4	4	0	0
	Basic Physics with an introduction to Plasma Lab	2	0	0	4
DSE – 1	Fundamentals of Computer Science	4	4	0	0
	Fundamentals of Computer Science Lab	2	0	0	4
GE – 2	Generic Elective	4	4	0	0
AECC – 2	Communicative English – II	2	2	0	0
SEC – 1	Mentored Seminar – I	1	1	0	0
USC – 2	Foreign Language II	2	2	0	0
<b>Total Credit = 27</b>			<b>Teaching Hour = 33</b>		

## Second Year

Category	Course Name	Credit	Teaching Scheme		
			L	T	P
<b>Semester - III</b>					
CC – 5	Applied anatomy and physiology	4	4	0	0
	Applied anatomy and physiology Lab	2	0	0	4
CC – 6	Radiology & Dark Room Analysis -I	4	4	0	0
	Radiology & Dark Room Analysis -I Lab	2	0	0	4
DSE – 2	Radiation Physics	4	4	0	0
	Radiation Physics Lab	2	0	0	4
GE – 3	Generic Elective	4	4	0	0
AECC – 3	Environmental Science	2	2	0	0
SEC – 2	Mentored Seminar – II	1	1	0	0
USC – 3	Foreign Language III	2	2	0	0
<b>Total Credit = 27</b>			<b>Teaching Hour = 33</b>		
<b>Semester – IV</b>					
CC – 7	Radiology & Dark Room Analysis -II	4	4	0	0
	Radiology & Dark Room Analysis -II Lab	2	0	0	4
CC – 8	Basics of Radiography & Patient Care in Hospital	4	4	0	0
	Basics of Radiography & Patient Care in Hospital Lab	2	0	0	4
DSE – 3	Medical Ethics	4	4	0	0
	Medical Ethics Lab	2	0	0	4
GE – 4	Generic Elective	4	4	0	0
AECC – 4	Community Health	2	2	0	0
SEC – 3	Mentored Seminar – III	1	1	0	0
USC – 4	Foreign Language – IV	2	2	0	0
<b>Total Credit = 27</b>			<b>Teaching Hour = 33</b>		

## Third Year

Category	Course Name	Credit	Teaching Scheme		
			L	T	P
<b>Semester – V</b>					
CC – 9	Radiography Equipment & Techniques	4	4	0	0
	Radiography Equipment & Techniques Lab	2	0	0	4
CC – 10	Advanced Imaging & Contrast Media I	4	4	0	0
	Advanced Imaging & Contrast Media I lab	2	0	0	4
CC – 11	Radiation Hazards & Preventative Strategies	4	4	0	0
	Radiation Hazards & Preventative Strategies Lab	2	0	0	4
DSE – 4	Health Research and Publications	4	4	0	0
	Health Research and Publications Lab	2	0	0	4
SEC – 4	Mentored Seminar – IV	1	1	0	0
<b>Total Credit = 25</b>			<b>Teaching Hour = 33</b>		
<b>Semester – VI</b>					
CC – 12	Radiography Techniques of Bones and Joints	4	4	0	0
	Radiography Techniques of Bones and Joints Lab	2	0	0	4
CC – 13	Advanced Imaging & Contrast Media II	4	4	0	0
	Advanced Imaging & Contrast Media II Lab	2	0	0	4
CC – 14	Special Radiographic Techniques	4	4	0	0
	Special Radiographic Techniques Lab	2	0	0	4
CC – 15	Project	6	0	0	12
<b>Total Credit = 24</b>			<b>Teaching Hour = 36</b>		