

**Dr. D.Y. Patil School of Allied Health Sciences**

**Dr. D. Y. Patil Vidyapeeth, Pune  
(Deemed to be University)**



## **Programme Framework**

**Bachelor of Science in Radiology and  
Imaging Technology  
(B.Sc. RIT)**

# First Year

## First Semester

Course code	Course Title	Credit			Hours			Marks			
		Theory	Practical	Total	Theory	Practical	Total	Internal	Theory	Practical	Total
BRIT 101	Introduction to Healthcare Delivery System in India	2	0	2	30	0	30	40	80	80	200
	Medical Terminology and record keeping (including anatomical terms)	1	0	1	15	0	15				
	Medical Law and Ethics	1	0	1	15	0	15				
	Introduction to Quality and patient safety	2	1	3	30	30	60				
BRIT 102	Basic computers and Information Science	1	1	2	15	30	45	30	60	60	150
	Research Methodology and Biostatistics	2	1	3	30	30	60				
BRIT 103	Basic English and Communication	2	0	2	30	0	30	40	80	80	200
	Professionalism and Values	1	1	2	15	30	45				
	Principles of Management	2	0	2	30	0	30				
BRIT 104	Community orientation and clinical visit	0	2	2	0	60	60				
<b>Total</b>		<b>14</b>	<b>6</b>	<b>20</b>	<b>210</b>	<b>180</b>	<b>390</b>	<b>110</b>	<b>220</b>	<b>220</b>	<b>550</b>

## Second Semester

Course code	Course Title	Credit			Hours			Marks			
		Theory	Practical	Total	Theory	Practical	Total	Internal	Theory	Practical	Total
BRIT 201	Human Anatomy and Physiology	6	2	8	90	60	150	40	80	80	200
BRIT 202 A	Basics Physics including Radiological Physics	1	1	2	15	30	45	20	40	40	100
BRIT 202 B	Conventional Radiography and Equipment	1	2	3	15	60	75	20	40	40	100
BRIT 203	Radiographic and Image Processing Techniques	1	1	2	15	30	45	40	80	80	200
BRIT 204	BRIT Directed Clinical Education – part I (studentship)*	0	5	5	0	150	150	50			50
<b>Total</b>		<b>9</b>	<b>11</b>	<b>20</b>	<b>135</b>	<b>330</b>	<b>465</b>	<b>170</b>	<b>240</b>	<b>240</b>	<b>650</b>

## Second Year Third Semester

Course code	Course Title	Credit			Hours			Marks			
		Theory	Practical	Total	Theory	Practical	Total	Internal	Theory	Practical	Total
BRIT 301	Human Anatomy and Physiology including Pathology Part 2	3	1	4	45	30	75	40	80	80	200
BRIT 302	Clinical Radiography-Positioning Part 1	2	2	4	30	60	90	20	40	40	100
BRIT 303	Modern Radiological & Imaging Equipment including Physics	2	1	3	30	30	60	20	40	40	100
	Contrast & Special Radiography Procedures	2	2	4	30	60	90	40	80	80	200
BRIT 304	BRIT Directed Clinical Education – part II (studentship)*	0	5	5	0	150	150	50	0	0	50
<b>Total</b>		<b>9</b>	<b>11</b>	<b>20</b>	<b>135</b>	<b>330</b>	<b>465</b>	<b>170</b>	<b>240</b>	<b>240</b>	<b>650</b>

## Fourth Semester

Course code	Course Title	Credit			Hours			Marks			
		Theory	Practical	Total	Theory	Practical	Total	Internal	Theory	Practical	Total
BRIT 401	Physics of Newer Imaging Modalities	1	2	3	15	60	75	20	40	40	100
	Newer Modalities Imaging Techniques including Patient Care	2	2	4	30	60	90	20	40	40	100
BRIT 402	Clinical Radiography Positioning Part 2	2	2	4	30	60	90	40	80	80	200
BRIT 403	Quality Control in Radiology and Radiation Safety	2	2	4	30	60	90	40	80	80	200
BRIT 404	BRIT Directed Clinical Education – part III (studentship)*	0	5	5	0	150	150	50	0	0	50
<b>Total</b>		<b>7</b>	<b>13</b>	<b>20</b>	<b>105</b>	<b>390</b>	<b>495</b>	<b>170</b>	<b>240</b>	<b>240</b>	<b>650</b>

## Third Year Fifth Semester

Course code	Course Title	Credit			Hours			Marks			
		Theory	Practical	Total	Theory	Practical	Total	Internal	Theory	Practical	Total
BRIT 501	Cross Sectional Anatomy and Physiology	2	2	4	30	60	90	40	80	80	200
BRIT 502	Radiographic Techniques of Advanced Imaging Technology	2	2	4	30	60	90	20	40	40	100
	Physics of Advanced Imaging Technology	2	2	4	30	60	90	20	40	40	100
BRIT 503	Regulatory Requirements in Diagnostic Radiology & Imaging, Act and rules, Regulations for JCI, NABH, NABHR	2	1	3	30	30	60	40	80	80	200
BRIT 504	BRIT Directed Clinical Education – part IV (studentship)*	0	5	5	0	150	150	50	0	0	50
	<b>Total</b>	<b>8</b>	<b>12</b>	<b>20</b>	<b>120</b>	<b>360</b>	<b>480</b>	<b>170</b>	<b>240</b>	<b>240</b>	<b>650</b>

## Sixth Semester

Course code	Course Title	Credit			Hours			Marks			
		Theory	Practical	Total	Theory	Practical	Total	Internal	Theory	Practical	Total
BRIT 601	Quality Assurance & Radiation Safety (AERB Guidelines) in Diagnostic Radiology	2	2	4	30	60	90	40	80	80	200
BRIT 602	Hospital Practice & Care of Patients	3	3	6	45	90	135	40	80	80	200
BRIT 603	Research Methodology	3	2	5	45	60	105	40	80	80	200
BRIT 604	BRIT Directed Clinical Education – part V (studentship)*	0	5	5	0	150	150	50	0	0	50
	<b>Total</b>	<b>8</b>	<b>12</b>	<b>20</b>	<b>120</b>	<b>360</b>	<b>480</b>	<b>170</b>	<b>240</b>	<b>240</b>	<b>650</b>

## Fourth Year Seventh and Eighth Semester

Course Title	Hours		
	Theory	Practical	Total
Internship and Project Work	0	1200	1200
<b>Credits</b>	<b>40</b>		