



INTEGRAL UNIVERSITY, LUCKNOW
INTEGRAL INSTITUTE OF ALLIED HEALTH SCIENCES & RESEARCH
DEPARTMENT OF PARAMEDICAL SCIENCES

BACHELOR OF MEDICAL RADIOLOGICAL IMAGING SCIENCES
(BMRIS)

SYLLABUS AND EVALUATION SCHEME

YEAR/ SEMESTER

III/V & III/VI

&

PEOs-POs-PSOs



Integral University, Lucknow
Department of Paramedical
Sciences Study and
Evaluation Scheme

Program: BMRIS

Semester-V

S. N.	Course code	Course Title	Type of Paper	Period Per hr/week/sem			Evaluation Scheme				Sub. Total	Credit	Total Credits
				L	T	P	CT	TA	Total	ESE			
THEORIES													
1	RS301	Magnetic Resonance Imaging	Core	3	1	0	40	20	60	40	100	3:1:0	4
2	RS302	Hospital Practice & Care of Patient	Core	3	1	0	40	20	60	40	100	3:1:0	4
3	RS303	Orientation in Clinical Sciences-II	Core	3	1	0	40	20	60	40	100	3:1:0	4
PRACTICAL													
1	RS304	Magnetic Resonance Imaging-Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1
2	RS305	Hospital Practice & Care of Patient -Lab	Core	0	0	4	40	20	60	40	100	0:0:2	2
3	RS306	Seminar	Core	0	3	0	50	50	100	00	100	0:3:0	3
4	RS307	Hospital Posting	Core	0	0	14	40	20	60	40	100	0:0:7	7
Total				09	06	20	290	170	460	240	700	25	25

S. N.	Course code	Course Title	Type of Paper	Attributes						United Nation Sustainable Development Goal (SDGs)	
				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value		Professional Ethics
THEORIES											
1	RS301	Magnetic Resonance Imaging	Core	√	√	√			√	√	3,4
2	RS302	Hospital Practice & Care of Patient	Core	√	√	√	√		√	√	3,4
3	RS303	Orientation in Clinical Sciences-II Lab	Core	√	√	√	√		√	√	3,4
PRACTICAL											
1	RS304	Magnetic Resonance Imaging-Lab	Core	√	√	√	√		√	√	3,4
2	RS305	Hospital Practice & Care of Patient -Lab	Core	√	√	√	√		√	√	3,4
3	RS306	Seminar	Core	√	√	√			√	√	3,4
4	RS307	Hospital Posting-	Core	√	√	√	√		√	√	3,4

L: Lecture **T:** Tutorials **P:** Practical **CT:** Class Test **TA:** Teacher Assessment **ESE:** End Semester Examination,
AE= Ability enhancement, **DSE-** Discipline Specific Elective, **Sessional Total:** Class Test + Teacher Assessment
Subject Total: Sessional Total + End Semester Examination (ESE)



Integral University, Lucknow
Department of Paramedical Sciences
Study and Evaluation Scheme

Program: BMRIS

Semester-VI

S. N.	Course code	Course Title	Type of Paper	Period Per hr/week/sem			Evaluation Scheme				Sub. Total	Credit	Total Credits
				L	T	P	CT	TA	Total	ESE			
THEORIES													
1	RS308	Advance CT, MRI & USG	Core	3	1	0	40	20	60	40	100	3:1:0	4
2	RS309	Nuclear Medicine Technology & PET Scan	Core	3	1	0	40	20	60	40	100	3:1:0	4
3	RS310	Interventional Procedure & Emergency Drugs	Core	3	1	0	40	20	60	40	100	3:1:0	4
4	RS311	Research Methodology & Biostatistics	Core	3	1	0	40	20	60	40	100	2:1:0	4
PRACTICAL													
1	RS312	Advance CT, MRI & USG -Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1
2	RS313	Nuclear Medicine Technology & PET Scan-Lab	Core	0	0	4	40	20	60	40	100	0:0:2	2
3	RS314	Hospital Posting	Core	0	0	12	40	20	60	40	100	0:0:6	6
Total				Total	12	04	18	280	140	420	280	700	25

S. N.	Course code	Course Title	Type of Paper	Attributes							United Nation Sustainable Development Goal (SDGs)
				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	
THEORIES											
1	RS308	Advance CT, MRI & USG	Core	√	√	√	√		√	√	3,4
2	RS309	Nuclear Medicine Technology & PET Scan	Core	√	√	√	√		√	√	3,4
3	RS310	Interventional Procedure & Emergency Drugs	Core	√	√	√	√		√	√	3,4
4	RS311	Research Methodology & Biostatistics	Core	√	√	√	√		√	√	3,4
PRACTICAL											
1	RS312	Advance CT, MRI & USG -Lab	Core	√	√	√	√		√	√	3,4
2	RS313	Nuclear Medicine Technology & PET Scan Lab	Core	√	√	√	√		√	√	3,4
3	RS314	Hospital Posting	Core	√	√	√	√		√	√	3,4

L: Lecture **T:** Tutorials **P:** Practical **CT:** Class Test **TA:** Teacher Assessment **ESE:** End Semester Examination,
 AE= Ability Enhancement, DSE- Discipline Specific Elective, **Sessional Total:** Class Test + Teacher Assessment **Subject Total:** Sessional Total + End Semester Examination (ESE)

**BACHELOR OF MEDICAL RADIOLOGICAL IMAGING
SCIENCES
(BMRIS)**



**Program Educational Outcomes
(PEOs)**

Program Educational Outcomes (PEOs)

The educational goals of the curriculum reflect the knowledge, skills, and behaviors expected of program graduates. The graduates of the Integral University BMRIS program will be expected to:

PE01:	Be advanced leaders in the profession.
PE02:	Be compassionate, caring healthcare professionals.
PE03:	Be eligible, well-prepared, and able to sit for and pass the credentialing examination.
PE04:	Have immediate job placement within six months of graduation.
PE05:	Work in advanced imaging fields and sit for advanced imaging Examinations.
PE06:	Identify with and contribute to the aims and ideals of the profession.
PE07:	Practice in an ethical and legal manner.

**BACHELOR OF MEDICAL RADIOLOGICAL IMAGING
SCIENCES
(BMRIS)**



**PROGRAMME OUTCOMES
(POs)**

BACHELOR OF MEDICAL RADIOLOGICAL IMAGING SCIENCES (BMRIS) PROGRAMME OUTCOMES (POs)

PROGRAMME OUTCOMES (POs) POs and its Attributes: -

Radio imaging Graduates will be able to-

PO-1:	Understanding ways of functioning effectively as an individual independently and as a member in diverse team in multidisciplinary settings. (Attitude)
PO-2:	Understanding requirements of continuous education as a function of growth and maintenance of professional competence. (Lifelong learning)
PO-3:	Understanding environmental consciousness and societal concerns in achieving sustainable development. (Environment and Sustainability)
PO-4:	Applying computer skills in health care system and taking entrepreneurial decisions. (Entrepreneurship)
PO-5:	Applying knowledge to assess societal, health, safety and legal issues related to professional practice. (Social interaction & effective citizenship)
PO-6:	Applying systematized problem-solving techniques to identify and correct procedural errors to verify the accuracy of laboratory result obtained. (Problem analysis and solving)
PO-7:	Applying appropriate techniques, resources and tools with an understanding of limitations. (Technology savvy/usage)
PO-8:	Developing the ability towards ethical as well as critical thinking. (Critical thinking)
PO-9:	Executing professional conduct and interpersonal communicational skills effectively with society at large. (Communication)
PO-10:	Have the technical ability to correctly repeat images, when the quality is not adequate for diagnostics.
PO-11:	Demonstrate radiation safety for self, staff, and patients as set foRSh by the ALARA standards.
PO-12:	Demonstrate an understanding of advanced multiple imaging modalities and the need for lifelong learning.

BACHELOR OF MEDICAL RADIOLOGICAL IMAGING SCIENCES (BMRIS)



**Program Specific Outcomes
(PSOs)**

**BACHELOR OF MEDICAL RADIOLOGICAL IMAGING SCIENCES (BMRIS)
PROGRAMME SPECIFIC OUTCOME (PSOs)**

Program Specific Objectives (PSOs) are specific statements that describe the professional career accomplishment that the program is designed. The PSO's of the BMRIS program are as follows:

PSO1:	Understanding the basic concepts, theories of applied sciences (physics, chemistry, Anatomy, physiology, biochemistry, pathology) relevant to radiological imaging techniques.
PSO2:	Remembering the relationship between physics and radiology & modern imaging
PSO3:	Understanding provisions for radiation safety by various national & international regulatory bodies and applying quality assurance measures.
PSO4:	Safety procedures and maintenance of radiological equipments.
PSO5:	Operating all radiological and imaging equipment independently and perform the image processing in X-Ray, Fluoroscopy, Computed Tomography, Dual Energy X-Ray Absorptiometry (DEXA), Mammography, Digital Subtraction Angiography, Magnetic Resonance Imaging, Ultrasonography, Nuclear Medicine