BSc Program in Radiological Sciences
Study Plan and Course Description

1. University Requirements (27 credit hours)
   A. University Compulsory Requirements (18 credit hours)

Course No.	Subject Title	Credit hours	Pre-req.	Teaching method
0115001	Military Science	3	--	Electronic
0116101	National Education	3	--	Electronic
0116103	Communication skills (Arabic (1))	3	0116099	Classroom
0116107	Communication skills (English (1))	3	0116098	Classroom
0116108	Communication skills (English (2))	3	0116107	Classroom
0116102	Leadership, innovation, and leadership skills	3	--	Electronic
0116109	Student Community Service	0	--	Classroom

B. Elective University Requirement (9 Credit hours)

Course No.	Subject Title	Credit hours	Pre-req./ Co-req.	Teaching method
0116116	Personal and Professional Skills	3	Department approval	Blended
0116117	Financial and Economic Literacy	3	Department approval	Blended
0116111	Language skills (1)	3	--	Blended
0116112	Language skills (2)	3	0116111	Blended
0116113	Language skills (3)	3	0116112	Blended
0216113	Sustainable Development and the Environment	3	Department approval	Blended

2. Compulsory Faculty Requirements (20 credit hours)

Course No.	Subject Title	Credit hours	Pre-req./ Co-req.	Teaching method
0216145	General Chemistry for Health Sciences	3	--	Classroom
0216135	General Physics for Health Sciences	3	--	Blended
1110141	Human Anatomy	3	0216155	Blended
1120130	Communications skills and Leadership	2	--	Electronic
1110362	Research methodology and biostatistics	3	--	Electronic
1110144	Human Physiology	3	--	Blended
0216207	Digital Health	3	--	Classroom

3. Specialty Requirements (89 credit hours):

Course No.	Subject Title	Credit hours	Pre-req./ Co-req.	Teaching method
0216155	General biology for health sciences	3	-	Classroom
1130110	Introduction to Radiological Sciences	1	-	Classroom
1130211	Radiation Physics	3	0216135	Classroom
1130212	Radiographic Procedures I	2		Classroom
1130213	Radiographic Procedures I Lab	1	Co-1130212	Classroom
1130214	Radiological Anatomy and Positioning	2	1110141	Blended
1130215	Radiological Anatomy and Positioning Lab	1	Co-1130214	Classroom
1110261	Pathophysiology	3	1110144	Blended
1130221	Radiation Protection and Safety	3		Blended
1130222	Imaging Equipment and Instrumentation	2		Blended
1130223	Imaging Equipment and Instrumentation Lab	1	Co-1130222	Classroom
1130224	Radiographic Surface Anatomy	2		Classroom
1130225	Radiographic Surface Anatomy Lab	1	Co-1130224	Classroom
1130226	Radiographic Procedures II	2	1130212	Classroom
1130227	Radiographic Procedures II Lab	1	Co-1130226	Classroom
1130311	Quality Assurance in Radiology	2		Blended
1130312	Quality Assurance in Radiology Lab	1	CO-1130311	Classroom
1130313	Mammography	2		Classroom
1130314	Dental imaging	1		Classroom
1130315	Dental imaging Lab	1	Co-1130314	Classroom
1130316	Contrast Media and Pharmacology	2	1110144	Blended
1130317	Ethics and Professional Practices in Radiology	1		Classroom
1130318	Clinical Education I	3		Classroom
1130319	Cross-Sectional Imaging Anatomy	2		Classroom
1130320	Cross-Sectional Imaging Anatomy Lab	1	Co-1130319	Classroom
1130321	Principles of Diagnostic Ultrasound	2		Classroom
1130322	Nuclear Medicine Technology	2		Blended
1130323	Interventional Radiology	2		Blended
1130324	Interventional Radiology Lab	1	Co-1130323	Classroom
1130325	Image Evaluation and Interpretation	2		Classroom
1130326	Image Evaluation and Interpretation Lab	1	Co-1130325	Classroom
1130327	Computed Tomography (CT)	2		Classroom
1130328	Computed Tomography (CT) Lab	1	Co-113327	Classroom
1130329	Clinical Education II	3		Classroom
1130330	Digital Radiographic Image Processing	1		Classroom
1130331	Digital Radiographic Image Processing Lab	1	Co-1130330	Classroom
1130411	Advanced Imaging Modalities	2		Blended
1130412	Health Care Management	1		Classroom

1130413	Vascular Imaging	2		Classroom
1130414	Vascular Imaging Lab	1	Co-1130413	Classroom
1130415	Evidence Based Imaging	2		Blended
1130416	Clinical Education III	3		Classroom
1130420	Graduation project	2		Blended
1130421	Pediatrics Imaging	2		Classroom
1130422	Pediatrics Imaging Lab	1	Co-1130421	Classroom
1130423	Principles of Magnetic Resonance Imaging	2		Classroom
1130424	Principles of Magnetic Resonance Imaging Lab	1	Co-1130423	Classroom
1130425	Bone Densitometry	2		Classroom
1130426	Clinical Education	6		Classroom

Courses Description

0216145 General Chemistry for Health Sciences (3 credit hours)

This course deals with the basic principles of chemistry. It covers the following topics: nature of matter, atomic structure of elements, chemical calculations, chemical reactions in aqueous medium, chemical bonds, gases, solids, liquids and solutions, thermochemistry, chemical equilibrium, and kinetics of chemical reactions.

0216135 General Physics for Health Sciences (3 credit hours)

This course introduces physics and the basic physical ideas that occur in all branches of science and technology. The course also provides a clear and logical presentation of the basic concepts and principles of physics reinforced by a wide range of interesting related applications. Topics covered in this course include: position and time, movement in one dimension (dynamics), or two or three dimensions, circular motion; Experimental foundations of Newton's laws and some applications, work, energy and power, elastic properties of materials, heat, temperature and behavior of gases, thermodynamics, thermal properties of matter; Electrical forces, fields and potentials, fluid mechanics, light optics and engineering.

1110141 Human Anatomy (3 credit hours)

This course covers normal human gross anatomy with emphasis on the structure of the musculoskeletal, neuromuscular, cardiopulmonary, and integumentary systems. Other anatomical systems will also be covered. This course is designed to help students establish a foundational understanding of the neuromusculoskeletal systems of the human body.

1110130 Communication Skills (2 credit hours)

This course provides an overview of professional communication skills to enhance students' performance, as well as their satisfaction with performance in the workplace. The course also provides a roadmap to achieving excellence in leadership. It outlines the theoretical foundations of the concept of leadership through a review of leadership theories and provides students with the opportunity to understand what it takes to influence and empower others.

1110362 Research Methodology and Biostatistics (3 credit hours)

This course provides students with an overview of the research process and applied statistics. Topics covered in the course include: research ethics, literature search using off- and on-line databases, critical reading and evaluation of literature, development of an answerable research question and evaluation of research problems, research design, including experimental and non-experimental research, writing a research proposal, professional presentation, and basic principles of statistics analysis.

1110144 Human Physiology (3 credit hours)
The course is designed to provide students with knowledge about the normal functions and mechanisms of various body systems. Emphasis will be placed on the musculoskeletal, neuromuscular, cardiopulmonary, and integumentary systems. Other systems will be covered. This course is designed to help students establish a foundational understanding of the neuromusculoskeletal systems of the human body.

0216207 Digital Health (3 credit hours)
This course introduces students to the fundamental concepts, tools, and applications of digital health. Topics include electronic health records, telemedicine, wearable devices, mobile health applications, artificial intelligence (AI), big data analytics, and digital therapeutics. The course emphasizes how digital health technologies are transforming prevention, diagnosis, treatment, rehabilitation, and patient engagement. Ethical, legal, and social considerations such as data privacy, cybersecurity, patient safety, and responsible use of AI in healthcare will also be explored.

1130110 Introduction Radiological Sciences (1 credit hours)
This course introduces students to the field of radiological sciences, including the historical development of medical imaging, the role of radiological technologists within healthcare systems, and the basic principles of diagnostic imaging modalities. Emphasis is placed on professional responsibilities, ethical standards, patient care principles, and an overview of radiation safety in clinical practice.

0216155 General Biology for Health Sciences (3 credit hours)
This course includes the study of basic concepts of life science in terms of the living cell from the functional and structural point of view, and energy transformations in metabolic processes such as respiration and organic synthesis, and the composition, replication, transcription and translation of genetic material, this course also deals with the anatomical and functional structure of the organs of the human body, such as the circulatory, respiratory, immune, and nervous systems.

1130211 Radiation Physics (3 credit hours)
This course covers the fundamental principles of radiation physics relevant to diagnostic imaging. Topics include atomic structure, x-ray production, radiation interactions with matter, radiation measurement, and dosimetry. The course provides the theoretical foundation necessary for safe and effective radiographic practice.

1130212 Radiographic Procedures I (2 credit hours)
This course focuses on the principles and techniques of basic radiographic examinations of the upper extremities, lower extremities, and chest. Emphasis is placed on patient positioning, exposure parameters, image evaluation criteria, and radiation protection.

1130213 Radiographic Procedures Lab (1 credit hour)
This laboratory course provides practical training in basic radiographic positioning techniques for extremities and chest using simulation labs and radiographic equipment models.

1130214 Radiological Anatomy and Positioning (2 credit hours)
This course studies cross-sectional and radiographic anatomy relevant to diagnostic imaging. Emphasis is placed on correlating anatomical structures with radiographic images and positioning techniques.

1130215 Radiological Anatomy and Positioning Lab (1 credit hour)
This laboratory course provides practical training in identifying anatomical structures on radiographs and practicing accurate positioning techniques using anatomical models and imaging simulations.

1110261 Pathophysiology (3 credit hours)
This course introduces students to pathophysiology, the study of the mechanisms of disease, with a focus on its application in health informatics. Students will explore how disease processes affect human systems, including genetic, environmental, and lifestyle factors, and how these processes can be documented, analyzed, and used in health information systems.
The course will also emphasize the integration of clinical data with electronic health records, decision support systems, and predictive analytics, helping students understand the importance of pathophysiological knowledge in improving patient care and healthcare delivery.

1130221 Radiation Protection and Safety (3 credit hours)
This course addresses the principles and practices of radiation protection in diagnostic imaging. It covers biological effects of ionizing radiation, dose limits, radiation monitoring, shielding design, regulatory standards, and quality assurance measures to ensure patient, staff, and public safety.

1130222 Imaging Equipment and Instrumentation (2 credit hours)
This course examines the design, components, operation, and maintenance of imaging equipment used in diagnostic radiology. Topics include x-ray tubes, generators, digital imaging systems, CT and MRI hardware basics, image receptors, and quality control systems.

1130223 Imaging Equipment and Instrumentation Lab (1 credit hour)
This laboratory course provides practical exposure to imaging equipment components and quality control testing procedures. Students gain hands-on experience in equipment setup, system checks, and performance testing in simulated environments.

1130224 Radiographic Surface Anatomy (2 credit hours)
This course focuses on surface anatomical landmarks and their clinical relevance in radiographic positioning. Emphasis is placed on palpation techniques and anatomical correlations necessary for accurate image acquisition.

1130225 Radiographic Surface Anatomy Lab (1 credit hours)
This laboratory course provides hands-on training in identifying anatomical landmarks and applying positioning techniques based on surface anatomy using anatomical models and simulation tools.

1130226 Radiographic Procedures II (2 credit hours)
This course builds upon Radiographic Procedures I and focuses on radiographic examinations of the axial skeleton, skull, spine, pelvis, and contrast studies. Emphasis is placed on positioning techniques, image evaluation, and patient safety considerations.

1130227 Radiographic Procedures II Lab (1 credit hours)
This laboratory course provides hands-on training in advanced radiographic positioning techniques for axial skeleton and contrast studies using simulation and clinical lab settings.

1130311 Quality Assurance in Radiology (2 credit hours)
This course provides an in-depth exploration of the principles of quality assurance (QA) and quality control (QC) in diagnostic imaging, including performance testing, image quality indicators, dose optimization, accreditation standards, and audit systems.

1130312 Quality Assurance in Radiology Lab (1 credit hour)
This course provides practical application of quality assurance and quality control principles in diagnostic imaging. It involves conducting performance tests of imaging equipment, evaluating image quality, measuring radiation dose indicators, verifying equipment safety and compliance with applicable standards, documenting and analyzing quality control test results, and preparing quality assurance reports and corrective action plans.

1130313 Mammography (2 credit hours)
A specialized course on breast tissue imaging. It covers the unique physics of the molybdenum/rhodium targets used in mammographic X-ray tubes, breast anatomy, and the specialized positioning (CC and MLO views) required for cancer screening. This course typically aligns with the initial education requirements for ARRT Mammography certification.

1130314 Dental imaging (1 credit hour)
This course provides an in-depth understanding of the maxillofacial radiography. Topics include the theory of intraoral imaging (periapical, bitewing) and extraoral techniques, primarily Panoramic (Panorex) and Cone Beam CT (CBCT). Students study the unique anatomy of the mandible, maxilla, and dentition.

1130315 Dental Imaging Lab (1 credit hour)
Students practice the use of film/sensor holders and the "paralleling technique" for intraoral imaging. The lab includes the operation of panoramic units and the reconstruction of 3D CBCT data for dental implant planning.

1130316 Contrast Media and Pharmacology (2 credit hours)
This course focuses on the drugs administered within a radiology department. Detailed study is given to the chemical structures of ionic vs. non-ionic contrast media, Gadolinium-based agents, and radiopharmaceuticals. Students learn to manage contrast reactions, from mild hives to anaphylactic shock, and the use of emergency medications.

1130317 Ethics and Professional Practices in Radiology (1 credit hour)
This course introduces students to ethical principles, professional standards, patient rights, confidentiality, legal responsibilities, and communication in radiological practice.

1130318 Clinical Education I (3 credit hours)
This initial clinical rotation introduces students to the healthcare environment. The focus is on orientation to hospital protocols, patient transport, radiation safety in practice, and professional ethics. Students begin by observing registered technologists and move toward performing basic radiographic procedures (e.g., chest, abdomen, and upper extremities) under direct supervision.

1130319 Cross-Sectional Radiographic Anatomy (2 credit hours)
This course examines the normal anatomy of various body regions as visualized on cross-sectional images, with emphasis on identifying organs, tissues, and anatomical relationships in axial, coronal, and sagittal planes. It covers the anatomy of the head, brain, neck, thorax, abdomen, pelvis, and musculoskeletal system, and correlates anatomical landmarks with their normal radiographic appearance on computed tomography (CT) images. The course enhances students' ability to recognize key anatomical structures and distinguish normal anatomical appearances from basic anatomical variations on medical images.

1130320 Cross-Sectional Radiographic Anatomy Lab (1 credit hour)
This course aims to develop students' practical skills in identifying normal anatomical structures as visualized on computed tomography (CT) images. Practical training includes the identification of organs, tissues, and anatomical relationships in axial, coronal, and sagittal planes across various body regions, including the head, brain, neck, thorax, abdomen, pelvis, and

musculoskeletal system. The course also emphasizes the use of cross-sectional images and digital applications to identify anatomical landmarks and correlate them with their normal radiographic appearance, while distinguishing common anatomical variations from basic pathological changes.

1130321 Principles of Diagnostic Ultrasound (2 credit hours)
This course provides a comprehensive introduction to the physical principles, instrumentation, and clinical applications of diagnostic medical sonography. Students will explore the behavior of sound waves in human tissue, the mechanics of transducer technology, and the hemodynamics of Doppler imaging. Beyond the physics, students will develop foundational scanning techniques, focusing on cross-sectional anatomy and the identification of common pathologies in the abdominal and pelvic cavities.

1130322 Nuclear Medicine Technology (2 credit hours)
This course provides a comprehensive foundation in the physical and biological principles of nuclear medicine. Students will explore the nature of radioactivity, including various modes of radioactive decay (Alpha, Beta, and Gamma) and the mathematics of half-life calculations.
The curriculum focuses on Radiopharmacy, where students learn the chemical properties of "hot" tracers and their specific biodistribution in the human body. A significant portion of the course is dedicated to the instrumentation of the Gamma Camera and the emerging field of hybrid imaging, specifically PET/CT and SPECT/CT, which merge functional data with anatomical precision.

1130323 Interventional Radiology (IR) (2 credit hours)
This course introduces the clinical foundations of Interventional Radiology, focusing on the minimally invasive techniques used to diagnose and treat pathologies across various body systems. Students will study specialized equipment, pharmacology, and procedural protocols unique to the IR suite. The curriculum covers the vascular and non-vascular anatomy relevant to percutaneous interventions, the properties of various contrast media, and the physiological monitoring of patients under moderate sedation. A heavy emphasis is placed on Radiation Safety for both the patient and the health care team within the treatment environment.

1130324 Interventional Radiology Lab (1 credit hour)
The IR Lab provides a simulated clinical environment where students move from theory to the physical handling of specialized interventional tools. This course focuses on "bench-top" skills and the mastery of the fluoroscopic imaging chain. Students will practice the assembly of sterile trays, the tactile manipulation of catheters through vascular phantoms, and the operation of C-arm digital subtraction angiography (DSA) software. Safety is the primary focus of this lab, including strict adherence to Surgical Asepsis and the proper use of lead shielding and dosimeter placement in a high-dose environment.

1130325 Image Evaluation and Interpretation (2 credit hours)
This course provides a systematic approach to the critical analysis of medical images across multiple modalities (Radiography, CT, and MRI). Students will develop a "Radiographic Eye" to evaluate images based on two primary pillars: Technical Quality and Clinical Anatomy.
The curriculum covers the theoretical basis for identifying normal versus abnormal structures, understanding the manifestation of common pathologies (e.g., fractures, pleural effusions, or tumors), and the legal/ethical implications of the technologist's role in "preliminary observations."

1130326 Image Evaluation and Interpretation Lab (1 credit hours)
The lab component is a hands-on diagnostic simulation where students apply systematic review protocols to a vast library of clinical cases. Unlike the lecture, which is observational, the lab requires students to act as the primary evaluator. Students will utilize PACS (Picture Archiving and Communication System) workstations to manipulate images—adjusting window leveling, using measurement tools, and applying post-processing filters. The lab focuses on "The Repeat Analysis," where students evaluate "sub-optimal" images and must decide: Is this image of diagnostic quality, or must the patient be re-exposed?

1130327 Computed Tomography (2 credit hours)
This course explores the theoretical foundations of Computed Tomography, covering the evolution of CT scanners from first-generation pencil beams to modern Multi-Detector CT (MDCT) systems. Students will delve into the physics of X-ray attenuation in a circular gantry, the mathematical principles of image reconstruction (such as Filtered Back Projection and Iterative Reconstruction), and the complexities of helical data acquisition. A significant portion of the course is dedicated to CT Dose Optimization. The course also covers the pharmacology of iodinated contrast media and the management of adverse reactions.

1130328 Computed Tomography Lab (1 credit hour)
The CT Lab provides hands-on experience in the operation of a CT simulator or clinical workstation. Students will learn to translate a physician's order into a precise scanning protocol. The lab emphasizes the "Pre-Scan" workflow, including patient screening for renal function, IV catheter placement, and the use of power injectors. Students will practice the art of Post-Processing, transforming raw volumetric data into diagnostic tools using Multi-Planar Reformats (MPR) and 3D Maximum Intensity Projections (MIP). The lab concludes with a focus on emergency procedures and the technical "troubleshooting" of common image artifacts.

1130329 Clinical Education II (3 credit hours)
Building on the foundations of Clinical I, this course requires students to take a more active role in the imaging suite. Students are expected to perform a wider variety of procedures, including lower extremities, bony thorax, spinal columns, contrast studies, and trauma imaging.

1130330 Digital Radiographic Image Processing (1 credit hour)
This course covers the fundamental principles of processing and enhancing digital radiographic images to improve image quality and diagnostic value. It addresses image processing techniques, adjustment of brightness and contrast, enhancement of image sharpness and detail, reduction of noise and artifacts, and the management of images within digital radiography systems. The course also covers the principles of image display, storage, and transmission using Picture Archiving and Communication Systems (PACS), as well as the fundamentals of Digital Imaging and Communications in Medicine (DICOM). Emphasis is placed on selecting appropriate image processing techniques to preserve diagnostic information and optimize image quality.

1130331 Digital Radiographic Image Processing Lab (1 credit hour)
This course aims to develop students' practical skills in processing and enhancing digital radiographic images using medical imaging systems and software applications. Practical training includes the application of techniques for adjusting brightness and contrast, enhancing image sharpness and detail, reducing noise and artifacts, and processing images while preserving diagnostic information. Students also receive practical training in image display, storage, and transmission using Picture Archiving and Communication Systems (PACS), handling DICOM files, and evaluating the effects of various image processing techniques on image quality and diagnostic value.

1130411 Advanced Imaging Modalities (2 credit hours)
This survey course explores the cutting-edge technologies that sit outside the "big four" (X-ray, CT, MRI, US). It covers the principles of Dual-Energy X-ray Absorptiometry (DEXA), Fusion Imaging (PET/MR), Digital Breast Tomosynthesis (DBT), and Artificial Intelligence (AI) in image reconstruction. Students analyze how these niche technologies provide specific diagnostic data that traditional modalities cannot.

1130412 Healthcare Management (1 credit hour)
This course focuses on the operational side of radiology. Topics include healthcare economics, accreditation standards (Joint Commission/ACR), legalities in medical imaging, and personnel management. Students learn about workflow optimization, "Lean" management in the clinical setting, and the financial impact of equipment procurement.

1130413 Vascular Imaging (2credit hours)
This course explores the circulatory system through the lens of angiography. This course focuses on the anatomy of the arterial and venous systems, the hemodynamics of blood flow, and the specific radiographic techniques used to visualize vascular pathology (e.g., stenoses, aneurysms, and malformations).

1130414 Vascular Imaging Lab (1 credit hour)
A hands-on simulation lab where students practice the physical components of vascular access. This includes the preparation of high-pressure injectors, the tactile manipulation of catheters through anatomical vascular models, and the mastery of Digital Subtraction Angiography (DSA) post-processing.

1130415 Evidence Based Imaging (2 credit hours)
This course teaches students how to critically appraise peer-reviewed research to inform clinical practice. Rather than relying on "the way it's always been done," students learn to use the **PICO** (Patient, Intervention, Comparison, Outcome) framework to evaluate the efficacy of imaging protocols and patient safety measures.

1130416 Clinical Education III (3 credit hours)
This rotation shifts focus on procedures and advanced modalities. Students will complete competencies in fluoroscopic studies (GI/GU tracts), pediatric imaging, and trauma radiography.

1130420 Graduation Project (2 credit hours)
This is a capstone course designed to provide students with an opportunity to apply their acquired knowledge and skills to a real-world radiological problem or research question. Students will engage in independent or group-based research or case study analysis under the supervision of a faculty advisor. The project should demonstrate the student's ability to analyze, design, implement, or evaluate a solution related to radiology or other relevant areas. Students will follow a structured methodology, including problem identification, literature review, methodology development, data collection and analysis, implementation (if applicable), and evaluation. At the end of the course students are expected to submit a written report, project presentation.

1130421 Pediatrics Imaging (2 credit hours)
This course covers the unique physiological and psychological needs of the pediatric patient. Focus is placed on childhood-specific pathologies (e.g., Greenstick fractures, intussusception) and the vital importance of Radiation Protection for the developing tissues of infants and children.

1130422 Pediatrics Imaging Lab (1 credit hour)
In this lab, students practice specialized pediatric positioning using phantoms and immobilization devices like the Pigg-O-Stat. Emphasis is placed on "Guerilla Radiography"—learning to capture high-quality diagnostic images quickly and accurately on uncooperative or distressed patients.

1130423 Principles of Magnetic Resonance Imaging (2 credit hours)
This course provides an in-depth exploration of the physics of Nuclear Magnetic Resonance (NMR). Students study the behavior of hydrogen protons in a strong magnetic field (B_0), the application of Radiofrequency (RF) pulses, and the relaxation times

1130424 Principles of Magnetic Resonance Imaging Lab (1 credit hour)
Utilizing MRI simulators or clinical scanners, students learn to manipulate pulse sequences. The lab focuses on "Knobology" (adjusting TR, TE, and Flip Angle), coil selection, and the critical screening protocols required to prevent projectiles in the Zone IV magnetic environment.

1130425 Bone Densitometry (2 credit hours)
This course covers the technical aspects of measuring Bone Mineral Density (BMD). Students learn to interpret T-scores and Z-scores and understand the pathophysiology of osteoporosis. Emphasis is placed on the precise positioning of the hip and lumbar spine to ensure reproducible data for longitudinal patient tracking.

1130426 Clinical Education IV (6 credit hours)
The final clinical course serves as a "terminal residency" designed to ensure the student is ready for the workforce. Students are expected to function with near-total independence (under indirect supervision) and manage a full patient load. During Clinical IV, students often begin their rotations through specialty areas such as Computed Tomography (CT), Magnetic Resonance Imaging (MRI), or Interventional Radiology (IR) to identify a potential area of future specialization. This course includes a comprehensive review of all clinical competencies and a final assessment of "Terminal Competency" across all body systems.