Radiological Sciences Department

قسم العلوم الإشعاعية

Layal Jambi

ليال جمبي


Mission
Regional leadership with international reputation in Radiologic Sciences and Medical Imaging
Vision
To Contribute in the advancement of health care for the community through qualifying competitive professionals in Radiologic Sciences and Medical Imaging , to provide an environment that encourages learning and creativity and to produce researches that contribute in building the knowledge community
Value
Based on our Islamic and cultural values, we uphold
- Quality and excellence
- Leadership and Team work
- Freedom of inquiry
- Fairness and integrity
- Transparency and accountability
- Continuous Education
- Ethical and professional responsibility

Program Objectives

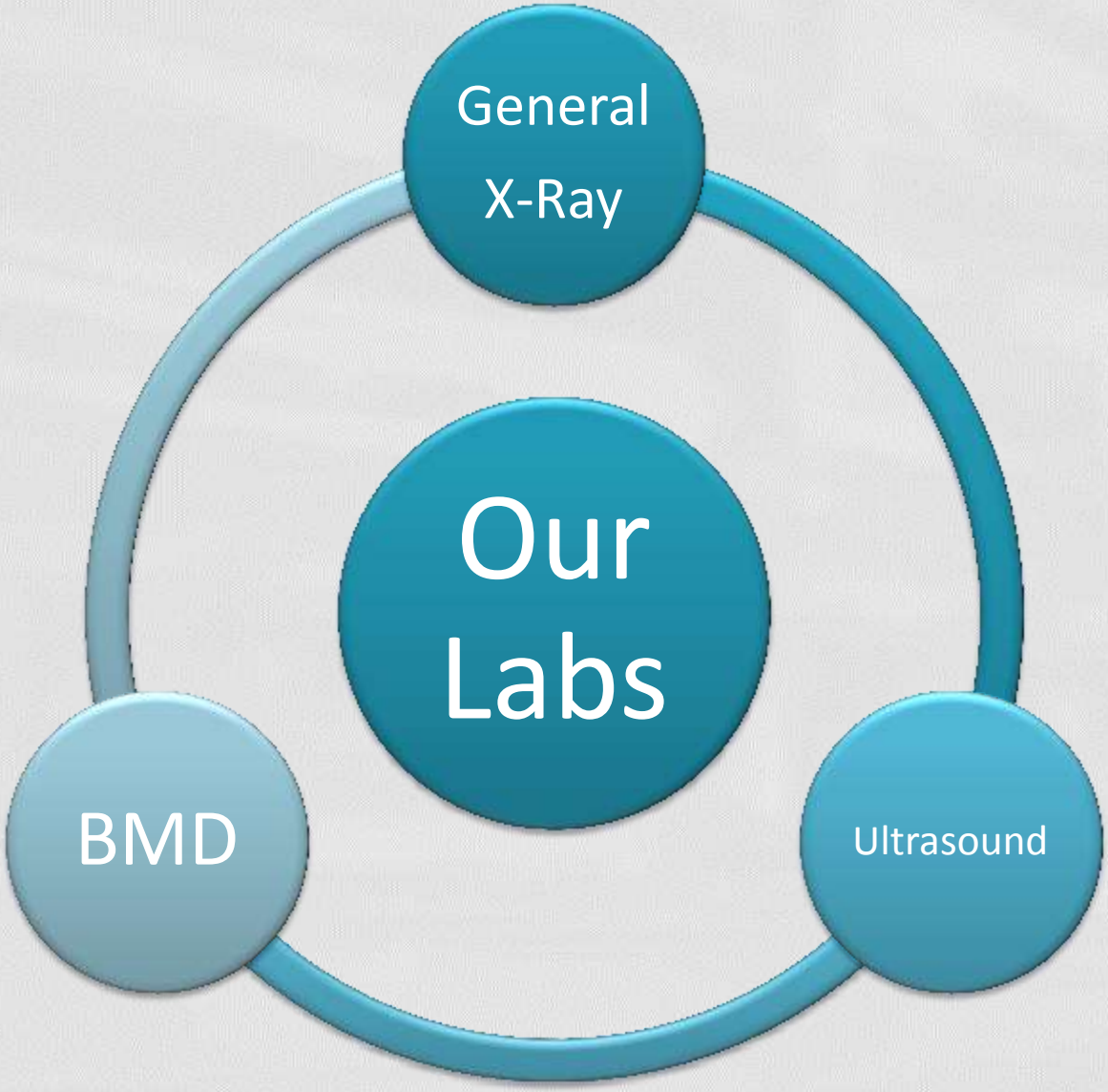
To graduate students with the ability to:

- Be clinically competent radiologic technologists.
- Think critically and apply problem solving skills in the practice of the profession.
- Communicate effectively in the health care environment.
- Demonstrate professional development and growth in their chosen profession.
- Demonstrate professional and ethical attitude.

Program Outcomes

At the completion of the program, students should have the ability to:

- Identify and explain the principles and concepts underpinning radiography.
- Optimize radiographic procedures for high quality medical images.
- Employ safe radiation protection practices.
- Provide quality patient care.
- Perform entry level skills as described by the scope of practice for the various medical imaging modalities
- Adapt procedures for non-routine patients.
- Use effective verbal, nonverbal and written communication skills.
- Demonstrate professionalism in didactic and clinical settings.
- Work effectively in team activities within and outside the classroom.



Female Section

General X-Ray Lab


Kodak
Kodak
Kodak

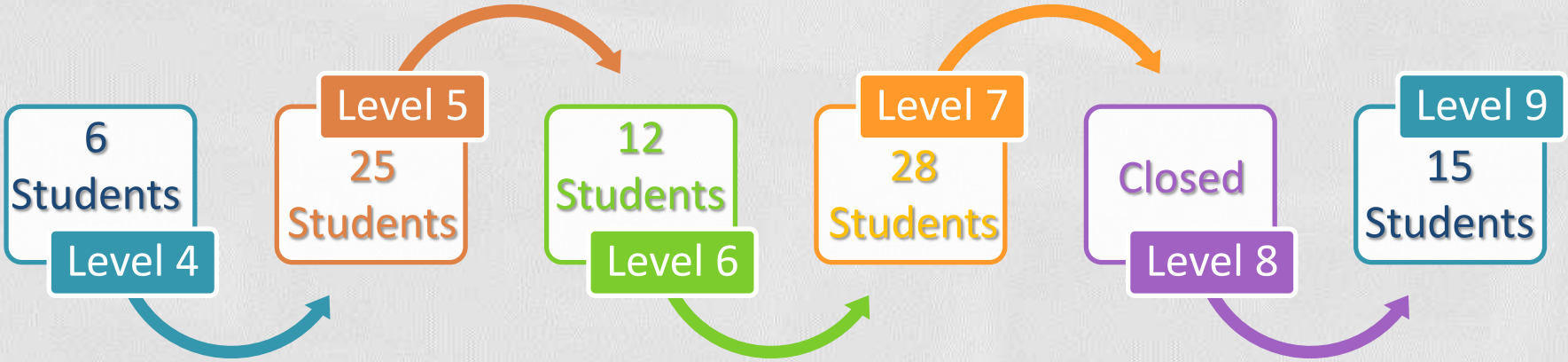
Ultrasound Lab

BMD Lab

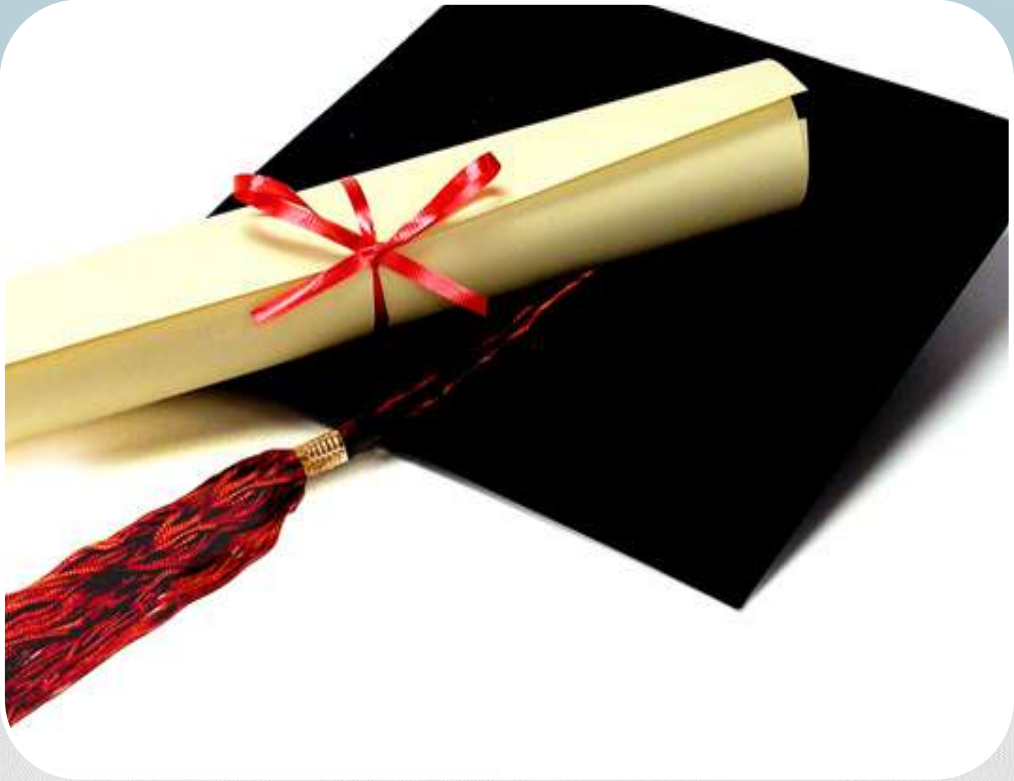

COMFIT

Class Rooms

Current Students
Female Section



Total = 85 Female Students

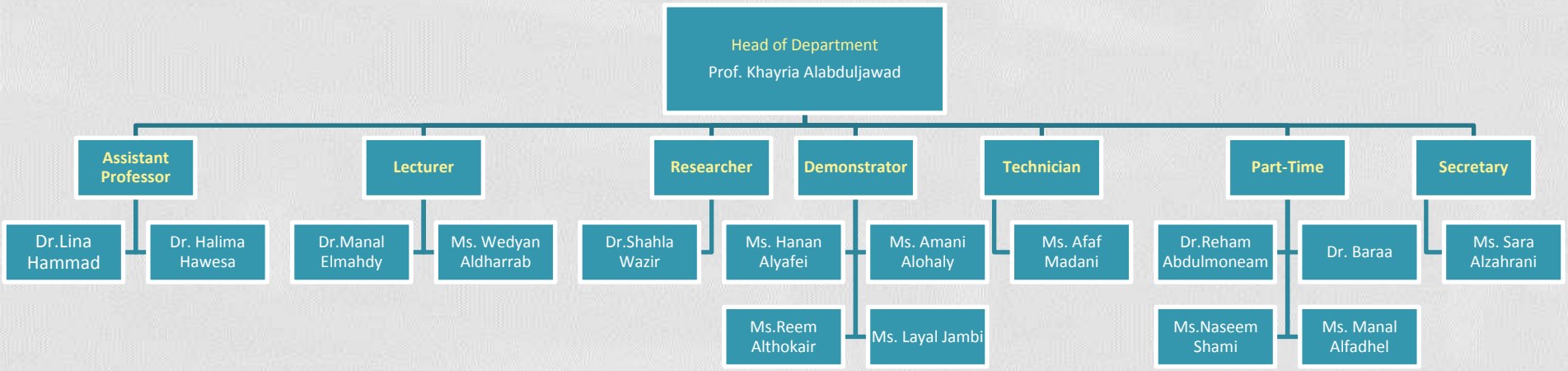


Our Graduated Students


1429 – 1430 H
KSU
1
King Faisal Specialist Hospital
1
National Guard Hospital Riyadh
4
Riyadh Military Hospital
1
King Fahad Medical City
1
University of Dammam
1
Dallah Hospital
1
Security Forces Hospital
1
Al-Jubail Hospital
2
Postgraduated Studies
2


1431 – 1432 H
KSU
3
King Saud Bin Abdulaziz University for Health Sciences
1
King Faisal Specialist Hospital
4
National Guard Hospital Riyadh
3
National Guard Hospital AlAhsa
1
King Fahad Medical City
2
Dammam Central Hospital
1
King Fahad Specialist Hospital, Burayda
1

Faculty & Employee Female Section



- Scholarship Students

Male Section

1	Othman Alomair	Australia	The University of Queensland
2	Sami Al-Ghamdi	Australia	The University of Queensland
3	Yazeed Al-Ashban	America	University of Massachusetts
4	Salman Al-Beshan	America	University of Denver
5	Khalid Tearo	Canada	University of Dalhousie
6	Haitham Al-Ahmad	Canada	University of Victoria
7	Ahmad Abanmi	Canada	University of Victoria

Female Section

1	Ashwag Alrowaily	Australia	The University of Queensland
2	Ruba Khushaim	Australia	The University of Queensland
3	Arwa Baashn	America	university of case western
4	Rana Aldahlawy	United Kingdome	University of Cardiff
5	Rania Hamza	United Kingdome	University of Leeds
6	Reham Altokhais	United Kingdome	University of Leeds
7	Azza Alasmari	United Kingdome	University of Leeds
8	Wafaa Abu taleb	United Kingdome	University of Oxford
9	Hadeel Alothaim	United Kingdome	
10	AlHanouf Alsheddi	United Kingdome	University of Leicester


Community
Services




Workshop in CT Scanning For Technician




Presented By: Mr. Essameldeen Tom

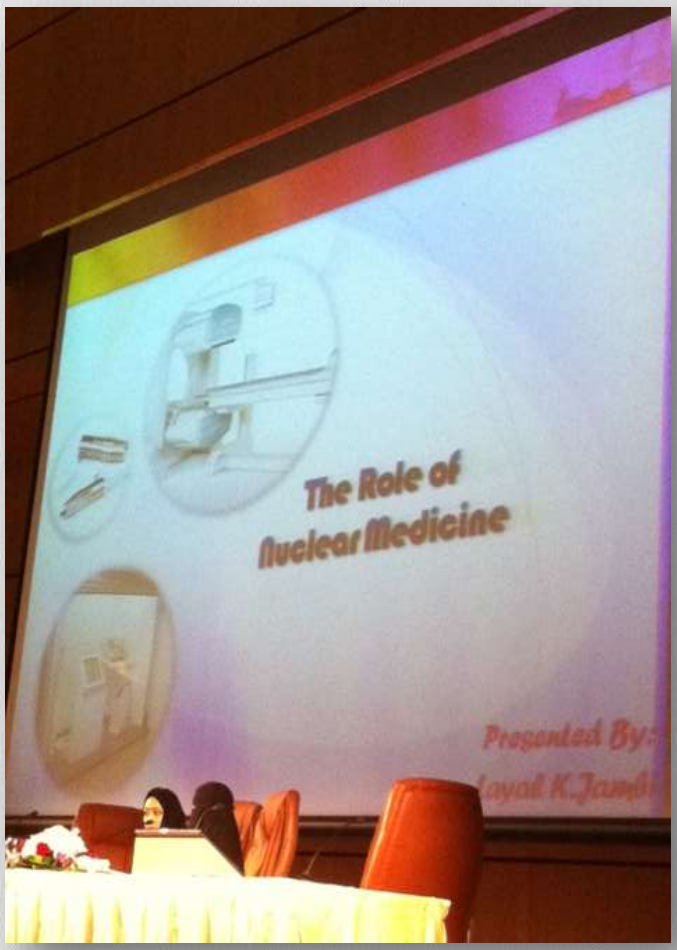
Organized by:

وزارة الصحة
Ministry of Health

2nd Saudi Radiology Technologists Conference

SRTC 2011

12 - 13 APRIL 2011 - Riyadh International Convention & Exhibition Center (RICEC)



The Role of Nuclear Medicine

Presented By: Miss. Layal Jambi

Scientific Research

Scientific Research Published or Accepted for Publication or Submitted for Publication during the Academic year 31-32

إسم عضو هيئة التدريس Faculty Member	المجلة (Magazine)	عنوان البحث (Title)	NO
د. عبد الرحمن الفريح	Proceedings of The Joint International Conference on Supercomputing in Nuclear Application and Monte Carlo (SNA+MC2010), Tokyo, Japan.2010, Article no. 10335	Validation of Homogenous Breast Tissue Assumption in MGD Calculations Using A Realistic Computational Breast Phantom,	**1**
د. خالد الزمامي د.محمد النافع	ECR 2011	An evaluation and a comparison of 3D-OSEM with resolution recovery (HOSEM) vs flash 3D".	**2**
د. خالد الزمامي د. عبد الرحمن الفريح	. Nuclear Instruments and Methods in Physics Research Section A	Investigation the Potential Use of LaBr3:Ce Scintillators for Scintimammography Imaging	**3**
	. Nuclear Instruments and Methods in Physics Research Section A	Investigation of the Possibility of Improving Spatial Resolution in SPECT with the Combination of LaBr3:Ce Based Detector and 3D OSEM Reconstruction Algorithms	**4**
	Transactions- American Nuclear Society	Optimized Energy Window Selection for 89Zr PET Imaging Using Monte Carlo Simulation	**5**
د. خالد الزمامي	Proc. SPIE 7961	Evaluation of image gating as an approach for noise estimation and optimization of SPECT images	**6**
	Transactions- American Nuclear Society	A Prototype Lanthanum-Based Scanner Using Three Positron Annihilation	**7**
د. حليمة هويسا	IEEE *Xplore*	2D J-resolved (PRESS) NMR amino acids in-vivo measurements and data analysis	**8**

Scientific Research Published or Accepted for Publication or Submitted for Publication during the Academic year 31-32

إسم عضو هيئة التدريس Faculty Member	(Magazine) المجلة	(Title) عنوان البحث	NO
د.محمد الخريف	Trans. American Nuclear Society, 103: 1107-1108 (2010).	A prototype lanthanum-based scanner using three photon positron annihilation	**9**
د.محمد الخريف د. محمد النافع	Journal of Radio analytical and Nuclear Chemistry (In Press)	Measurement of three gamma annihilation by lanthanum-based crystals compared with NaI (Tl) and HPGe.	**10**
د. عمران قادري	NIMB	Current status of multiple scattering models in Geant4	**11**
د.لينا فهمي حماد	J Clin. Diag. Research	An investigation of the Bacterial contamination of ultrasound equipments at a university hospital in Saudi Arabia	**12**
	Bioscience, Biotechnology Research Asia	Relation of maxillary teeth to the maxillary sinus in normal Saudi individuals living in Riyadh	**13**
د.أشرف الفرج	International Journal of Nanomedicine	In vivo biodistribution and biological impact of injected carbon nanotubes using magnetic resonance techniques	**14**
	Magnetic Resonance Materials in Physics, Biology and Medicine	Positive Contrast with Therapeutic Iron Nanoparticles at 4.7T	**15**
	Nature methods (submitted)	Cellular Magnetic Nanoconstructs for in vivo MRI Monitoring of Cell-derived Microvesicles	**16**
	Journal of Nanoparticles Research (submitted)	Imaging and Spectroscopic Techniques for Investigation of in vivo Carbon Nanotubes Biodistribution and Impact	**17**

Research in Progress
during the Academic year 31-32

إسم عضو هيئة التدريس Name of Faculty Member	التاريخ المتوقع للانجاز The expected date of completion	عنوان البحث Title	NO
د. محمد النافع	2011	Performance Assessment for GE X-ray Fluoroscopy System at King Saud University	1
د. حليمة هويسا	September/2011	Teaching physics to medical health students	2
	December/2011	Nuclear Protection in Saudi Hospitals Nuclear Medicine Units	3
د. عبد الله الهويمل	1432	The impact of hemodialysis on the psychosocial state of patients with end-stage renal disease ,at Riyadh KAS	4
د.خالد الزمامي	2012	Development and Optimization of Zr-89 Clinical PET/CT Imaging Protocols	5
	2012	Investigation the Potential Use of LaBr3:Ce Scintillators for SPECT and PET Imaging	6
	2014	Quantitative Imaging in SPECT (PhD student in collaboration with University of Surrey, UK)	7
د.أشرف الفرج	July 2011	Noninvasive tracking of SWCNT nanocarriers during pregnancy using MRI: effect of size	8
	September 2011	High Resolution noninvasive MR Tracking of BN-derived macrophages sub-populations in inflammatory animal model	9
د. عمران قادري	2011	On the Validation of the Goudsmit-Saunderson multiple scattering model of Geant4	10
	2011	Monte Carlo dosimetry in mammography (setup design & optimization)	11
د.لينا فهمي حماد	2012	A Sonographic Study Of Kidney Dimensions In Saudi's	12

Radiological Sciences Program Benchmarking

Standard/ Area	Key Performance Indicator	Benchmark			
		University of Cincinnati - Allied Health Sciences - Advanced Medical Imaging Technology	Jefferson University - School for Health Professions - Radiological Sciences	University of Sydney -Health Sciences -Medical Radiation Sciences	King Saud University, CAMS, Radiological Sciences Program
Management of Quality Assurance and Improvement	Students overall evaluation on the quality of their learning experiences. (Average rating of overall quality of their program based on a 5 point scale in an annual survey final year students.)	Average Rating 4.02	Average Rating 3.79	Average Rating 3.91	Average Rating 3.79
	Proportions of courses in which student evaluations were conducted during the year.	78% of courses	-	100% of courses	100% of courses
Learning and Teaching	Ratio of students to teaching staff. (Based on full time equivalents)	4.7 : 1	4.8 : 1	4.8 : 1	8:1
	Students overall rating on the quality of their courses. (Average rating of students on a five point scale on overall evaluation of courses)	Average Rating N/A	Average Rating 3.82	Average Rating 3.9	Average Rating 3.01

Standard	Key Performance Indicator	Benchmark			
		University of Cincinnati - Allied Health Sciences - Advanced Medical Imaging Technology	Jefferson University - School for Health Professions - Radiological Sciences	University of Sydney - Health Sciences - Medical Radiation Sciences	King Saud University, CAMS, Radiological Sciences Program
	Proportion of teaching staff with verified doctoral qualifications.	62% of full-time teaching staff	49% of full-time teaching staff	57 % of full-time teaching staff	74 % of full-time teaching staff
	Percentage of students entering programs who successfully complete first year.	93%	93%	94%	92%
Learning and Teaching	Proportion of students entering post graduate programs who complete those programs in specified time.	91%	90%	86%	100%
Employment	Proportion of teaching staff leaving the institution in the past year for reasons other than age retirement.	1.1%	0.9%	1%	0%
	Number of refereed publications in the previous year per full time equivalent member of teaching staff. (Publications based on the formula in the Higher Council Bylaw excluding conference presentations)	1.3 : 1	1.42 : 1	1.09 : 1	0.94:1
Research activities	Proportion of full time member of teaching staff with at least one refereed publication during the previous year.	64%	68%	73%	66.7

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Thank you

Danke