Second International Conference and School on Radiation Imaging and Nuclear Medicine

Ferhat Abbas-Setif1 University-UFAS1
Faculty of Sciences
In partnership with the Atomic Energy Commission-COMENA
ALGERIA

Setif, June 11-15, 2023

School Technical Program

Technical Program of the School

Thursday, 13 June	**Welcome and Opening Ceremony**
Morning	**Simulation and Dosimetry in Nuclear Medicine** **Pr. Habib Zaidi**
08h30-10h00	**Lecture 1** : The role of Monte Carlo simulations in molecular imaging and dosimetry
10h00-10h30	**Coffee Break**
10h30-12h00	**Lecture 2** : Advanced Anthropomorphic Computational Models
12h00-13h30	**Lunch Break**
Afternoon	**Medical lasers- Physics, Clinical Applications and Safety Management** **Dr. Yassine Bouchared**
13h30-15h00	**Lecture**: Medical Lasers - Physics and Classification of Lasers
15h00-15h30	**Coffee Break**
15h30-17h00	**Practical Session**: Medical lasers - Clinical applications & Safety Management
Wednesday, 14 June	
Morning	**Mammography Physics, Image Quality and Quality Control** **Pr. Nabil Maalej**
08h30-10h00	**Lecture** : Mammography Physics
10h00-10h30	**Coffee Break**
10h30-12h00	**Practical Session**: Image quality and quality Control in Mammography
12h00-13h30	**Lunch Break**
Afternoon	**X-ray Tomography** **Dr. Layachi Boukerdja and Dr. Omar Denden**
13h30-15h00	**Lecture** : Principles of X-ray and Neutron Imaging and Tomography
15h00-15h30	**Coffee Break**
15h30-17h00	**Practical Session** : Computed Tomography Simulation
Tuesday, 15 June	
Morning	**Deep Learning in Medical Image Processing** **Pr. Abdelouahab Moussaoui**
08h00-09h30	**Lecture**: Deep Neural Networks for Medical Data Analysis
09h30-10h00	**Coffee Break**
10h00-12h00	**Practical Session** : Hands-on notebooks • CNN models for medical image classification • Transfer learning models for medical data analysis • U-Net model for medical image segmentation • Autoencoder (AE) for image generation and denoising • Vision Transformers (ViT) for image analysis
12h00-12h30	**Distribution of Attending Certificates and Closing Ceremony**
12h30-13h30	**Lunch**