

Medical Physics (1404-1405)

Wednesday 8-10

	Date	Description	
1	1405/01/19	Atoms- nuclear- radioactivity- nuclear transformation- half life- Photomultiplier- gamma camera- ionizing chamber	Dr. Elmira Yazdani
2	1405/01/26	Introduction and objective of course- Mechanical wave- ultrasound production- acoustic impedance wave adsorption	Dr. Ebrahim Najafzadeh
3	1405/02/02	Application of ultrasound therapy- diagnostic- A mode and B mode- M mode- Doppler	Dr. Ebrahim Najafzadeh
4	1405/02/09	Physics of light and application of light in therapy and diagnostic- Lens types- optical system- spherical aberration (myopia, hyperopia)	Dr. Keikhosro Keshavarzi
5	1405/02/16	Myopia correction- Presbyopia- astigmatism, Astigmatism correction- retina characteristics	Dr. Keikhosro Keshavarzi
6	1405/02/23	X-ray production and characteristic X-ray spectra- X- ray adsorption- half value layer- X-ray interactions	Dr. Amin Asgharzadeh Alvar
7	1405/02/30	Imaging- computed tomography- fluoroscopy- mammography	Dr. Amin Asgharzadeh Alvar
8	1405/03/06	Different methods of radiotherapy- treatment planning	Dr. Pegah Saadatmand
9	1405/03/20	Radiobiology- direct and indirect ionization- water radiolysis- targeted radiation	Dr. Sakine shirvalilu
10	1405/03/27	biological effect of ultrasound, Radiofrequency and its application- Adsorbed dose- equivalent dose- radiosensitizer- radiation protection	Dr. Sakine shirvalilu

Reference: Medical Physics (Latest version)