Weeks 1-7, lect1, MONDAY 12:00-12:45, Ophthalmology; lect2, THURSDAY 10:00-10:45, Internal Medicine "A"				
Biophysics Pharmacy spring semester				
Week	Date	#	Title	
1	10 Febr (Monday) 12:00-13:00	1	Introduction to the course. Generation and absorption of X-rays. X-ray contrast materials	
	13 Febr (Thurday) 10:00-11:00	2	Ionizing radiations and their interaction with materials. Dosimetry, tissue effects, detection of radiation.	
2	17 Febr (Monday) 12:00-13:00	3	Research, diagnostic and therapeutic application of stable and radioactive isotopes. Contrast materials, radipharmacons.	
	20 Febr (Thurday) 10:00-11:00	4	Medical imaging (CT, PET, SPECT, MRI)	
3	24 Febr (Monday) 12:00-13:00	5	Diffusion at the molecular level, statistical interpretation. Fick's 1st law. Thermodiffusion. Osmosis.	
	27 Febr (Thurday) 10:00-11:00	6	Structure of biological membranes. Membrane transport	
4	3 March (Monday) 12:00-13:00	7	Pharmacology of ion channels (gating, selectivity). Patch clamp technique.	
	6 March (Thurday) 10:00-11:00	8	Origin of membrane potential Resting potential, action potential, electric excitbility.	
5	10 March (Monday) 12:00-13:00	9	Fluorescence spectroscopy, flurescence techniques	
	13 March (Thurday) 10:00-11:00	10	Methods of pharmacological research. Gelelectrophoresis, isoelectric focussing, blotting. Detecting molecular interactions (SPR, FCS, FRET)	
6	17 March (Monday) 12:00-13:00	11	Lasers and their biomedical applications. Photodynamic therapy.	
	20 March (Thurday) 10:00-11:00	12	Optical and electron microscopy.	
7	24 March (Monday) 12:00-13:00	13	Fluid mechanics, blood circulation. Newtonian fluids, viscosity, creams and emulsions	
	27 March (Thurday) 10:00-11:00	14	Biophysics of drug delivery. Nanotechnology approaches.	
10.			Biophysics grade offering exam (electronic exam),	