Phys 4607	MEDICAL PHYSICS	(CR3)
Preq.	Phys 3402, 3702/ ADP (Physics)	

Objective

To give an introduction to various applications of physics in medical sciences and heatj care sector.

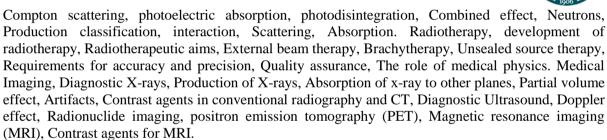
Syllabus

Interactions of lonising Radiation with Matter: Introduction; Beta-rays, range-energy relationship, mechanism of energy loos, lonization and excitation, Bremsstrahlung, Alpha-rays, Rang-energy relation – ship, Energy transfer, Gamma-rays, exponential absorption, interaction mechanisms, Pair production,

Curriculum (2020), Physics Degree Programs, University of the Punjab, Lahore

University of the Punjab

Department of Physics



Recommended Books

- 1. Introduction to Health Physics by H. Cember. 3rd Ed. McGraw Hill, (1996).
- 2. Diagnostic Imaging, by Peter Armstrong and Martin L. 4th Ed., Blackwell, (1998).
- 3. Radiologic Science of Technologists by S. C. Bushong, 5th Ed. Mosby, (1993).
- 4. Fundamentals of Radiation Dosimetry, by J. R. Greening, 2nd Ed. Adam Hilger, (1985).
- 5. Radiation Detection and Measurement, by Knol G.F., 2nd Ed. Willey, (1980).
- 6. Physics of Medical Imaging, by Edwin G. A. Aird, Heinemann, (1988).

