

Fall Semester, 2017

Course Title	Survey of Clinical Radiation Therapy; (UT HSC Course MPHY6110/8110)
Credit hours	2
Instructors:	E. Parsai, C. Chen, K. Reddy, and D. Shvydka.
Text books	Technological Basis of Radiation Therapy (4th ed.) Authors: S.Levitt, J. Purdy, C. Perez, S. Vijayakumar Introduction to Clinical Radiation Oncology (3rd ed.) Authors: Lawrence R. Coia, David J. Moyian
Grades	Mid-term 50% Final 50%
Time	Mondays 10:00 – 11:50 A.M. (except when noted)
Place	Academic Area of Radiation Oncology Class Room

INSTRUCTOR	SURVEY OF RADIATION THERAPY CLASS	DATE
E. Parsai	The Physical and Biological Basis of Radiation Oncology	8-21
D. Shvydka	Introduction to Radiobiology	8-28
	Holiday - Labor Day	9-4
E. Parsai	Dosimetry of Electron and Photon Beams	9-11
E. Parsai	Clinical Use of Photon and Electron Beams in Radiation Oncology	9-15 (Makeup class)
E. Parsai	Data Collections and Applications, Information Management System	9-18
	(Class Cancelled ASTRO)	9-25
K. Reddy	Fundamentals of Treatment Planning, Clinical Sites and Staging	10-2
E. Parsai	Simulations, Patient Immobilization and Port Verification	10-6 (make up)
E. Parsai	Three-dimensional Treatment Planning, Conformal Therapy and IMRT	10-9
	Fall Break (10/16 and 10/17)	10-16
E. Parsai	Mid - Term Exam (10/20?)	To be determined
E. Parsai	Intraoperative Radiation Therapy	10-23
C. Chen	Cranial/Extra-Cranial Stereotactic Radiosurgery & Radiotherapy	10-30
E. Parsai	Clinical Applications of Radionuclides and Other Radiopharmaceuticals in Radiation Oncology	11-6
D. Shvydka	Biological, Physical and Clinical Aspects of Hyperthermia	11-13
E. Parsai	Physical Principles and Clinical Applications of High and Low dose-rate Brachytherapy	11-17 (make up)
E. Parsai	Latest Technological Advances in Radiation Oncology, Tomotherapy, Cyberknife, Heavy Particle Therapy, Nanotechnology, etc.	11-20
E. Parsai	Clinical Implementation of Technology and Quality Assurance In Radiation Oncology	11-27
E. Parsai	Final Exam	12-4

Remarks: Materials presented in this course may not be found in the textbook used for the course, as the suggested textbooks are used for reference guide. Some of the professors may supply you with their lecture material handout, but not all may provide reading materials. Therefore, it is the student's responsibility to take proper notes, understand the concepts presented in class and check other reference texts on the topic. As always, the student is encouraged to ask questions.