

SYLLABUS

Course name: *Radiation Therapy Track Practicum core course* (3 credit hours).

Course number: RAT 6947.

Pre-requisites: RAT 6628, RAT 6629 and permission of the Instructor.

Radiation Therapy: Clinical Practicum and Shadowing Application of medical physics to cancer therapy in a hospital setting under close supervision. Dosimetry, calibrations, commissioning, radiation survey, and treatment planning. Clinically oriented laboratory-type projects are assigned.

This Practicum will be offered at the Lynn Cancer Institute of the Boca Raton Community Hospital (BRCH) under a partnership agreement between BRCH and FAU. Two Certified Medical Physicists and Research Affiliate Professors, FAU Department of Physics, will teach the students. They both are members of the advisory board of the proposed MSMP.

Instructors:

Zoubir Ouhib, MS, DABR, Chief Medical Physicist Boca Raton Community Hospital. zouhib@brch.com.

Charles Shang, MS, BMED, DABR, Director, Medical Physicist Boca Raton Community Hospital. cshang@brch.com.

Bibliography: Updated Vendor's user manuals: BrainLab - for SRS, SRT, and SBRT, Varian for IGRT with Eclipse and OBI system, Electta same as Varian.

Objectives: At the end of this course the students will be familiar with the current radiation treatment technology and methodologies in dosimetry, calibrations, commissioning, radiation survey, and treatment planning. They will be able to analyze properly a new plan and approve or disapprove it. They will be prepared to perform QA, calibrations and acceptance of the treatment planning systems and all new and advanced radiation therapy available at the present time.

Assessment procedures: Students will be evaluated from assigned projects on radiation treatment technology, methodologies in dosimetry, calibrations, commissioning, radiation survey, and treatment planning. A minimum of 30 hours of in hospital training is required.

Grading: S/U

Academic integrity: Students are responsible for informing themselves about the Honor Code standards before performing any academic work. The link to more detailed information about academic honesty can be found at:

http://www.fau.edu/regulations/chapter4/4.001_Honor_Code.pdf.

Scholastic dishonesty includes, among other things: plagiarism, copying other's work during a test, and using notes during a test. Any test or written assignment for which

you are caught cheating will be marked as a zero grade, and the incident will be reported in accordance with Honor Code regulations.

Students with disabilities: In compliance with the Americans with Disabilities Act (ADA), students who require special accommodations due to a disability affecting execution of coursework must register with the Office of Students with Disabilities (OSD) located in Boca in the SU, room 133 (561-297-3880) or in Davie in MD I (954-236-1222), and follow all OSD procedures.