ADVANCED RADIATION PHYSICS INC

We make it happen!

2888 NW 30th Street
Boca Raton, FL 33434
Telephone: 561-789-6642
Webpage: www.thearpi.com

Part 2 Review Course Outline

Course fee:

- $1600
- A non-refundable fee of $600 is required
- Students who took Part 1 with us will pay only $1200 for this one and only $800 for the oral class
- Students who only took Part 2 with us you'll pay only $1200 for the oral class
- Retake the course for free if you don't pass.
- $200 discount per course for Veterans and Military personnel.
- $200 discount per person for a group of 4 or more.
- $100 referral bonus to a review course or $50 referral bonus to a mock exam for each student recommended.
- Remaining balance due two weeks before the class starts.
- Use PayPal or send check to:

  Advanced Radiation Physics Inc.
  2888 NW 30th Street
  Boca Raton, FL 33434

- Send registration form by email to registration@thearpi.com

Course fee will include:

- Two days course review: 9:30 AM to 5:30 PM
- Electronic file with the course material
- Continuous attendance to the classes online until pass the exam review of exam like questions in the last half of the second day

- Study group organized from the first day of the course, with proposed structured schedule and mock tests monitored by an ARPI professor active up to the exam date.

Course location:

- Offered online only
- Webinars are recorded and you can have them and listen as many times as you wish.
- Chat, recordings, and documents will be shared by all the attendants from the first class of the year till the last one of the same year.

1. Reference and Relative Dosimetry
    a. Absolute calibration for photon and electron beams
    b. Dosimeter design, characteristics, application and QA, including ion chambers, solid state, optical, chemical, film and arrays.
    c. Survey detector design and application
2. Treatment machines
    a. Photon/Electron Medical Accelerators, physics, design, beam characteristics, delivery hardware, QA and shielding.
    b. Proton accelerators and beam characteristics
    c. Specialized machines, e.g., design and function of non-conventional or site-specific external beam delivery systems.
3. Therapy imaging and room design, patient safety, data transfer and professionalism and ethics.
    a. Imaging for Therapy Simulation (including physics, equipment design, application, and image reconstruction)
    b. Shielding and radiation safety
    c. Treatment localization and verification imaging, image registration
    d. Quality control and error prevention
    e. Computing and IT
    f. Professionalism and IT

4. Treatment planning for photons, electrons, SRS, SBRT, inter-and intra-fractionation variations, planning system safety
    a. Photon Treatment Planning
    b. Treatment Planning Electrons
    c. Management of inter- and intra-fraction variations
    d. Tx planning system safety and QA
5. Brachytherapy, radiation protection, radiation biology
    a. Brachytherapy isotopes, delivery systems, planning, QA and shielding
    b. Radiation protection regulations, personnel monitoring and special conditions (pregnancy, implanted devices, etc.)
    c. Radiation biology
6. Mock test

Silvia Pella, PhD, DABR
President & CEO of Advanced Radiation Physics Inc.
Affiliate Research Professor, Florida Atlantic University