



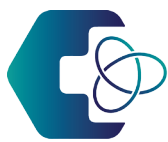
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ASSOCIAÇÃO PORTUGUESA  
DOS FÍSICOS MÉDICOS

## COURSE SYLLABUS

(>1 h duration sessions are divided  
in 1.5 hour duration sessions)

TOPIC	DURATION (h)	COURSE INSTRUCTOR / LECTURER	DATE
Introductory Remarks	1h	Scientific Committee	6/03/2026 (19h-20h)
Introduction to Radiation Protection, Radiation Shielding and Radiation Dosimetry topics	1h30m	P. Almeida, P. Vaz	7/03/2026 (10h-11h30m)
Review of Radiation Physics (intermediate level) ▶ Photon, electron and positron, proton/light ions and neutron interactions	1h30m	P. Almeida, P. Vaz	7/03/2026 (11h30m-13h)
Seminar by expert: Dosimetry and Individual Monitoring methods	1h	I. Pinto	11/03/2026 (17h-18h)
Metrology and Methods of Radiation Detection	2h	M. Caldeira M. Reis	11/03/2026 (18h-19h) (19h-20h)
Shielding and Dosimetry of Radiodiagnostic installations ▶ NCRP-147 Methodology ▶ Shielding of conventional X-ray facilities ▶ Shielding of CT rooms ▶ Other methods and methodologies (IAEA, AAPM, others)	6h	P. Vaz	17/03/2026 (17h-19h) 18/03/2026 (17h-19h) 19/03/2026 (17h-19h)
Seminar by expert: Trends in doses in computed tomography (CT) and interventional procedures	1h	M. Rehani	18/03/2026 (19h-20h)
Shielding and Dosimetry of External Radiotherapy Facilities (e/photon accelerators) ▶ NCRP-151 Methodology ▶ Maze design techniques and methods ▶ Other methods and methodologies (IPEM, DIN NORM, IAEA, AAPM, others)	6h	P. Vaz	21/03/2026 (10h-13h) 25/03/2026 (17h-20h)
Shielding and Dosimetry of External Radiotherapy Facilities (proton)	3h	G. Garcia	28/03/2026 (9h-12h)
Quiz 1	30m		28/03/2026 (12h-12h30m)
Shielding and Dosimetry of Brachytherapy Facilities ▶ AAPM TG-43 et al. Methodology ▶ Handling of Radioactive Sources ▶ Other relevant topics	3h	P. Carvoeiras	01/04/2026 (17h-20h)



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<p>Dosimetry and shielding topics in Nuclear Medicine facilities</p> <ul style="list-style-type: none"> <li>▶ Individual monitoring and dosimetry</li> <li>▶ Shielding and Dosimetry topics in PET-CT facilities</li> <li>▶ Dosimetry and Shielding Aspects of Emerging Targeting Radionuclide Therapy (TRT)</li> <li>▶ Other relevant topics</li> </ul>	6h	P. Almeida	8/04/2026 (17h-20h) 11/04/2026 (9h-12h)
Seminar by expert: Shielding on Ciclotron for medical applications	1h	M. Silva	11/04/2026 (12h-13h)
<p>Dosimetry and Shielding Issues in Interventional Procedures' facilities</p> <ul style="list-style-type: none"> <li>▶ Dosimetry issues (staff and patient)</li> <li>▶ Individual monitoring and dosimetry</li> <li>▶ Shielding equipment</li> </ul>	3h	R. Casanueva A. Gañán M. Rodriguez	15/04/2026 (16h-19h)
Quiz 2	30m		15/04/2026 (19h-19h30)
<p>Computational Methods in Shielding Assessment and Design</p> <ul style="list-style-type: none"> <li>▶ State-of-the-art Monte Carlo methods and computing programs – basic concepts</li> <li>▶ Semi-empirical methods and software</li> <li>▶ Other relevant topics (uncertainties, cross-section data, source term, etc.)</li> </ul>	3h	P. Teles	22/04/2026 (17h-20h)
Seminar by expert:	1h	P. Almeida	29/04/2026 (17h-18h)
Oral Presentation by trainees			6/05/2026 9/05/2026 13/05/2026
Experimental (hands-on) session in Radiotherapy facility	2h	P. Carvoeiras Local MPE	* 16/05/2026
Experimental (hands-on) session in Nuclear Medicine facility	2h	Local MPE	* 16/05/2026
Experimental (hands-on) session in Radiotherapy facility	2h	Local MPE	* 16/05/2026

\* To be confirmed

### Endorsement



### Sponsors



PROGRAM