

## Course 2

### Magnetic Resonance Imaging

November 6, 2017

#### Final Program and Schedule

Time-table	Session	Topics	Lecturer
9:00 – 10:00	Fundamentals of MRI	<ul style="list-style-type: none"> <li>• Physics of NMR</li> <li>• MRI hardware</li> <li>• Image formation</li> <li>• Artefacts in MRI (sources and mitigation strategies)</li> </ul>	Thomas Maris
10:00 – 10:30	Acceptance testing and QC of MRI systems		Thomas Maris
10:30 – 11:00	Safety in MRI		Thomas Maris
11:00 – 11:30	Coffee-break		
11:30 – 12:00	MRI Pulse sequences I	<ul style="list-style-type: none"> <li>• Contrast in MR imaging</li> <li>• Quantitative T1 and T2 mapping</li> <li>• Diffusion-weighted imaging</li> </ul>	Rita Nunes
12:00 – 12:30	MRI Pulse sequences II	<ul style="list-style-type: none"> <li>• Contrast-enhanced imaging</li> <li>• Perfusion imaging (DSC, ASL)</li> <li>• Functional imaging (BOLD-fMRI)</li> </ul>	Patrícia Figueiredo
12:30 – 13:00	Clinical Applications of MRI		Caseiro Alves

#### Faculty:

Thomas Maris	Department of Medical Physics, University Hospital of Iraklion, Greece
Rita Nunes	Instituto Superior Técnico, Lisboa, Portugal
Patrícia Figueiredo	Instituto Superior Técnico, Lisboa, Portugal
Filipe Caseiro Alves	Universidade de Coimbra, Centro Hospitalar Universitário, Coimbra, Portugal

#### Further information:

**Registration fee\***: 30€ (50€ from 2017/10/10)

**Reduced fee\*\* (with FISMED2017)**: 15€ (35€ from 2017/10/10)

**Venue**: Anfiteatro R/C, Departamento de Física da Universidade de Coimbra

**Registration**: <https://eventos.spf.pt/fismed2017/pt/7>

**Contact**: fismed2017@outlook.com

\* Includes 1 coffee-break

\*\* Includes 1 coffee-break and 1 lunch