Annex 1 to the UNIPhD Call (Academic Year 2022/23)
Doctoral Courses & Research topics - PhDs are listed in alphabetical order per scientific domain

### Life Sciences Domain (LS)

**Arterial hypertension and vascular biology**
- a) Hyperaldosteronism and atrial fibrillation
- b) Detection of secondary arterial hypertension: focus on primary aldosteronism

- Department of Medicine
- [https://www.medicinadimed.unipd.it/corsi/dottorati-di-ricerca/dottorati-internazionali/international-phd-program-arterial-hypertension](https://www.medicinadimed.unipd.it/corsi/dottorati-di-ricerca/dottorati-internazionali/international-phd-program-arterial-hypertension)

**Translational specialist medicine “G.B. Morgagni”**
- a) Diabetes and its chronic complications
- Department of Cardiac, Thoracic, Vascular Sciences and Public Health
- [http://phdmorgagni dctv.unipd.it/phd/index.php](http://phdmorgagni dctv.unipd.it/phd/index.php)

### Physical Sciences and Engineering (PE)

**Brain, mind and computer science** (interdisciplinary course between PE and LS)
- b) Neuroscience, technology and society

- Department of General Psychology
- [http://hit.psy.unipd.it/BMCS](http://hit.psy.unipd.it/BMCS)

**Geosciences**
- a) Deep Earth’s volatile cycle: processes, fluxes and metasomatism

- Department of Geosciences
- [https://www.geoscienze.unipd.it/corsi/scuola-dottorato](https://www.geoscienze.unipd.it/corsi/scuola-dottorato)

**Information engineering**
- a) Wireless communications and machine learning for mission-critical applications

- Department of Information Engineering
- [https://phd.dei.unipd.it/](https://phd.dei.unipd.it/)

**Land, environment, resources and health** (interdisciplinary course between PE and LS)
- b) Projected changes in flood occurrence at convection-permitting scale across an alpine transect

- Department of Land, Environment, Agriculture and Forestry

**Management engineering and real estate economics**
- b) Innovation of new product and services development

- Department of Management and Engineering

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1 The PhD Course in Arterial Hypertension and Vascular Biology is carried out in agreement with Sapienza University of Rome which, for the Academic year 2023/24, will be the administrative seat of the Course. Therefore, the PhD students who will be selected will be formally enrolled at Sapienza University of Rome but will carry out their research activities at the University of Padua. Furthermore, the contract will be signed by the doctoral candidate and the Host Department of the University of Padua.
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