

Surname: Petropoulos

Name: Nikolaos

Rank: Assistant Professor

**Field of expertise: Physics with
Applications to Electronics
Technology**



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Assistant Professor Nikolaos Petropoulos has studied Physics at the University of Ioannina, where he obtained his degree in 1989. After attending postgraduate courses at NCSR "Democritus" and vocational training seminars at the Institute of Technological Applications (FORTH - ELKEPA) in Athens, he moved to the United Kingdom in October 1992, where he successfully completed his postgraduate studies (MSc) in Theoretical High Physics at the University of Manchester in July 1994. Subsequently, after a brief period of preparation and working mainly as a teacher in Greece, in 1996, he returned to the Physics Department of the University of Manchester, where in December 2000 he obtained his PhD in Theoretical High Energy Physics.

In October 2001 he moved to Portugal where he worked as a postdoctoral researcher in Theoretical Physics at the Department of Physics of the University of Coimbra until August 2004. Also, as a postdoctoral researcher in Theoretical Physics, 2007 - 2008, he also worked in the Department of Physics at the University of Valencia in Spain. He has been working as a visiting researcher for short periods at the University of Sao Joao del Rei in Brazil, at the University of Valencia in Spain and at the C.E.R.N. in Switzerland. In Greece he has participated as a postdoctoral researcher in the research program "Thales" coordinated by TEI of Sterea Ellada during the period 2012 - 2016. He is currently a collaborator researcher in a research project named "Integrating Multi-Functionality and Smart Performance in Hybrid Polymer Nanodielectrics", which is funded by the Hellenic Foundation for Research and Innovation and it is coordinated by the University of Patras until 2024.

His teaching career in Greece started when he joined T.E.I. of Lamia in October 2004, where he worked as a laboratory and/or research associate with the full qualifications of Professor of Applications and/or Assistant Professor every academic year (except 2007-8) until November 2017, when he was appointed Assistant Professor at the Department of Electronic Engineering of TEI of Sterea Ellada. Since April 2020 he is an Assistant Professor at the Department of Physics, University of Thessaly.

His academic-administrative duties (November 2017 - August 2018) in the above Department of Electronics were: Director of the Section of Electronics, Academic Coordinator of the Erasmus+ Program and Scientific Coordinator for the Academic Program of "Student internship placements". He was also a representative of TEI of Sterea Ellada at

the Greek Organization “Open Technologies Alliance (GFOSS)” for Free and Open Source Software (January 2018-January 2019).

He has lengthy teaching experience in university education since he has taught various theoretical and laboratory courses in a variety of subjects such as Physics, Mathematics, Electronic Circuits, Digital Signal Processing, Electronics Materials and Devices, Nanoelectronics etc., in the Departments of Electronics Engineering and the Department of Informatics of TEI of Sterea Ellada. He has supervised alone or in collaboration with other colleagues more than 100 undergraduate theses on various subjects, and has participated as an examiner in about 170 undergraduate theses of the Department of Electronics Engineering of TEI of Sterea Ellada.

As a member of the Physics Department carries out academic-administrative duties while he is teaching a variety of undergraduate courses such as Thermodynamics, Statistical Mechanics and Physics Laboratory Courses. At postgraduate level he is teaching Quantum Statistical Mechanics. He is a member in the supervising committee of three doctoral students and the supervisor of a postdoctoral researcher.

He has participated in many international conferences and has published 13 research articles in journals, conferences and databases (arxiv.org) with 207 citations (HEP-INSPIRE), 220 (Google Scholar) or 141 citations (SCOPUS) in theoretical physics, mathematics and science of materials. His current research interests are multidisciplinary and focus on the overlap of theoretical physics, mathematics and materials science with a special interest in electronics technology, while he has a strong interest in free and open source software as well as in the Linux operating system.