

ADMISSION CRITERIA AND ADMISSIONS PROCESS

Eligible candidates should hold a recognised Master's degree (an applicant may be admitted to the programme subject to completing selected courses offered by the Department, if so decided by the Department Postgraduate Programmes Committee). A complete application should be submitted to the Admissions Department.

Application Documents and Other Requirements

- Completed Application Form
- Curriculum Vitae (CV)
- Research Proposal outlining the research problem, presenting literature review and explaining the research methodology to be followed.
- Certified true copy of the applicant's qualifications/degree(s)
- Original or certified true copy of transcript(s)
- Proof of language proficiency
- Two reference letters
- Research work and published articles (if any)



FACULTY OF THE PhD PROGRAMME AND RESEARCH INTERESTS

Dr Philippos Pouyioutas (BSc, MSc, PhD, CertED), Professor

- Databases, Graphical and Visual Interfaces, Information Technology in Education and Cultural Heritage, E-Learning, IT Applications and the Bologna Process, ECTS, and Qualifications Frameworks

Dr Athena Stassopoulou (BSc, PhD), Professor

- Artificial Intelligence, Bayesian Networks, Machine Learning, Computer Vision, Image Understanding, Neural Networks, Geographic Information Systems, Applications of Artificial Intelligence in Internet Technologies

Dr Charalambos Christou (BSc, MSc, PhD), Associate Professor

- Parallel Computers, Shared Memory Multiprocessor Systems, DSP-Based Parallel Systems

Dr Angelika Kokkinaki (BEng/MEng, MSc, PhD), Associate Professor

- E-business, MIS, Reverse Logistics

Dr Constandinos X. Mavromoustakis (BEng/MEng, MSc, PhD), Associate Professor (Coordinator)

- Distributed systems principles (spatiotemporal scheduling), Concurrent processing, Distributed Algorithms, Programmable Ad-hoc systems, Mobile Peer-to-Peer and Mobile Computing systems

Dr Nectarios C. Papanicolaou (BSc, MSc, PhD), Associate Professor

- Computational Mathematics, Numerical Analysis, Scientific and High Performance Computing

Dr Andreas Savva (BSc, PhD), Associate Professor

- Computer Graphics, Geometric Modelling, Surface subdivision, Splines

Dr Dmitry Apraksin (MSc, PhD), Assistant Professor

- Computer Networks, Database Management Systems, Web Applications

Dr Ioanna Dionysiou (BSc, MSc, PhD), Associate Professor

- Security in Distributed Systems, trust modeling and trust management in collaborative environments, critical infrastructure information protection

Dr Florent Domenach (BSc, MSc, PhD), Assistant Professor

- Symbolic data mining using lattices: theory, applications to the web semantic; Axiomatic consensus: theory, applications in phylogenetics

Dr Harald Gjermundrod (Dipl.-Ing, BSc, MSc, PhD), Associate Professor

- Distributed Computing Systems, Grid/Cloud Computing, High-performance computing, and Applied Technology in Education

Dr George Portides (BSc, PhD), Assistant Professor

- Computational Statistics, Robust Statistical Modelling, Computational Algorithms for General Regression Models, Simulation

Doctoral Programme PhD in Computer Science



INTRODUCTION

Doctoral degrees (Doctorates) at the University of Nicosia are awarded for the creation and interpretation of knowledge, which extends the forefront of a discipline, through original research and critical thinking. Holders of doctorates will be able to conceptualise, design and implement projects for the generation of significant new knowledge and/or understanding. Furthermore, they will have the qualities needed for employment requiring the ability to make informed judgments on complex issues in specialist fields, and innovation in tackling and solving problems.

PhD IN COMPUTER SCIENCE

The PhD in Computer Science, in line with the general philosophy of Doctoral Degrees, provides the student with:

- the most advanced knowledge of Computer Science and Information Technologies and Communications,
- the most advanced and specialised skills and techniques, required to solve critical problems in research and/or innovation and to extend and redefine existing knowledge or professional practice in the broad area of Computer Science,
- competences related to substantial authority, innovation, autonomy, scholarly and professional integrity.

PhD holders in Computer Science will:

- have deep understanding of the field and exhibit advanced skills and methods of research associated with the field,
- be able to conceive, design, implement and adapt a substantial process of research,
- have made a contribution through original research that extends the frontier of knowledge by developing a substantial body of work, some of which merits national or international refereed publication,
- be capable of critical analysis, evaluation and synthesis of new and complex ideas,
- be able to promote, within academic and professional contexts, technological, social or cultural advancement in a knowledge based society,
- be able to work in Universities, Institutes of Higher Education and Research centers and organisations.

ADMISSIONS CRITERIA

The PhD programme is available to holders of Master's degrees in Computer Science. Candidates with a computer science related Master's Degree and a strong Computer Science Bachelor's Degree will also be considered. Candidates could discuss potential PhD Thesis topics with the faculty of the Department of Computer Science so that they can formulate their own proposal or they can choose to pursue research in the area of the PhD topics of the faculty.

PROGRAMME DURATION AND REQUIREMENTS

The PhD programme requires the completion of 180 ECTS, out of which 60 ECTS are allocated to the preparation of the research proposal, 90 ECTS are allocated to the research and writing up of the writing up of the Thesis and 30 ECTS for the defence of the Thesis.

The minimum number of years for completing the PhD is three (3) and the maximum number of years is eight (8).

The Ph.D. programme entails the following stages:

- Attendance of a number of postgraduate courses which the Department Postgraduate Programmes Committee considers necessary for the student
- Writing of the research proposal
- Defence of the research proposal before the Supervisory Team
- Research work by the student under the guidance of the Supervisory Team and writing up of the Thesis
- Submission of the Thesis
- Defence of the Thesis before the Examinations Committee

LANGUAGE OF INSTRUCTION

The research and the writing up of the PhD Thesis can be either in English or in Greek (the language is subject to the approval of the Supervising Team).

