



**HELLENIC REPUBLIC
HAROKOPIO UNIVERSITY
SCHOOL OF DIGITAL TECHNOLOGY
DEPARTMENT OF INFORMATICS AND TELEMATICS
POSTGRADUATE PROGRAMME STUDIES
“MPhil in COMPUTER SCIENCE - INFORMATICS”**

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Athens, 20.05.2024
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**CALL FOR APPLICATIONS
POSTGRADUATE STUDENTS ACADEMIC YEAR 2024-2025**

The Department of “Informatics and Telematics” of Harokopio University of Athens, according to the Decision of the School of Digital Technology (No. 180/17.05.2024) invites the interested parties from May 20th up to June 28th 2024 to apply for a total of twenty five (25) postgraduate students in the Master Programme (MSc) **MPhil in Computer Science and Informatics**.

The MPhil program admits holders of a first-cycle degree from Greek universities or equivalent foreign institutions in accordance with the provisions of Article 34 of Law 4485/2017, such as Departments of Computer Science, Informatics, Polytechnic Schools and Departments of Natural Sciences.

The MPhil program aims to promote the research in Computer Science and Informatics, with the ultimate goal of specializing postgraduate students in cutting-edge research topics, in the subjects treated by the School of Digital Technology. The program aims to provide high-level knowledge, and develop research skills, in order to enhance the students research background in the basic subjects taught at the undergraduate level, and to guide them towards research and the job market with enhanced knowledge and skills in the fields it addresses.

MPhil Objectives

The objectives of the MPhil program are the development of research and the preparation of specialized scientists for doctoral studies, the training of specialized scientists in research methodologies and modern practices and their application in industrial production and entrepreneurship, the evolution and improvement of specialized individual and occupational skills in the topics covered by the program, and the interconnection of the participants with research within and outside the institution. This will be done in collaboration with national and international research centers, businesses, institutional state structures, and tertiary education institutions dealing with the issues of the MPhil program. Through a modern educational program and utilizing modern and asynchronous (distance) education techniques, the MPhil program aims to:

- Promotion of knowledge, development of research, and preparation of specialized scientists for postgraduate and doctoral studies in the country or abroad.
- Training of specialized scientists in research methodologies and modern practices and their application in industrial production and entrepreneurship.
- Evolution and improvement of specialized individual and professional skills on issues addressed by the program.

- Connection of participants with research within and outside the Institution, in collaboration with other Universities, Research Centers, Enterprises, and Institutional State Structures at national and international level.

Structure of the Programme

The duration of studies for the award of a Master's Degree (MPhil) is defined as follows:

- For full-time graduate students, a minimum of 18 months. This duration corresponds to three (3) academic semesters, of which the second and third are dedicated to the preparation of the final thesis.
- For part-time graduate students, the above-mentioned times are doubled accordingly, in accordance with Article 33, paragraph 2 of Law 4485/2017. Consequently, for part-time enrollment, the preparation of the thesis takes place after the second semester and lasts for four semesters.

Thematic Units

The thematic units include several related topics that will be dynamically adjusted according to research developments and broader research needs, following a recommendation from the Coordinating Committee and approval by the General Assembly (GA) of the School of Digital Technology. They indicatively include:

1st SEMESTER – A compulsory selection of 3 from the following units

No	Thematic Unit	ECTS credits
MPHIL1	Data science	10
MPHIL2	Computational Intelligence and Cognitive Computing	10
MPHIL3	Embedded systems, Computer Vision and Robotics	10
MPHIL4	Computing Infrastructures, Services and Systems	10
MPHIL5	System security and Cryptography	10
MPHIL6	Technology Management	10
MPHIL7	System Engineering & Technology	10
MPHIL8	Communication and Network Technologies	10

MPHIL9	Programming Languages/Software Systems	10
ΠΜΣ10	Algorithms and Optimization	10
ΠΜΣ11	Internet of Things	10
	TOTAL ACCREDITED ECTS	30

2nd and 3rd Semester

No	Thematic unit	ECTS Credits
MPHIL	MPhil Dissertation	60
	TOTAL ACCREDITED ECTS	60

To complete the program **90 ECTS** are required.

Expected Results

The students of the MPhil program will acquire significant knowledge and skills in order to:

- Conduct high-level research in cutting-edge areas of Computer Science and Informatics such as artificial intelligence and machine learning, data management and knowledge discovery, modern cloud-edge architectures, etc.
- Apply the research results by designing and implementing innovative solutions that promote competitiveness and have a direct impact on society and businesses.
- Approach the design, development and management of information systems holistically, with emphasis on modern dimensions such as security and privacy, scalability, reliability, transparency, digital equivalents, etc.
- Actively promote the interdisciplinary nature of Computer Science by applying their knowledge to different scientific fields such as Social and Humanistic Sciences, Health Sciences, etc.

Cost of study

The Master's Degree Program (M.Phil.) requires the payment of tuition fees amounting to 1.000 euro for the entire duration of the studies.

For any clarification, you can contact the Secretariat of the MPhil Program (9 Omirou Street, PC 17778, Tavros, tel. +30-210-9549440, email: mphilsec@hua.gr, as well as on the website of the Master's Program: <https://mphil.dit.hua.gr>.

Application submission

Candidates can submit their application electronically from **May 20th up to June 28th 2024**, on the website: <https://application.hua.gr/>

Required Application Documents:

- Copies of academic degrees. Graduates can submit their candidacy and be evaluated, but they are finally accepted only if they obtain their degree before the start of the MPhil registration.
- Copy of the detailed transcript of records for all years of undergraduate studies (or diploma supplement) and any postgraduate studies of the candidate, indicating the degree classification and the undergraduate or diploma thesis.
- Sufficient knowledge of the English language, documented by relevant certificates. A level "B2" certification is necessary, which can be obtained either through a State Language Proficiency Certificate or another certificate of the corresponding level. Proficiency can also be documented by a certificate of previous enrollment in a recognized English-speaking educational institution.
- Summary of the diploma or undergraduate thesis that has been or is being prepared by the candidate."
- Detailed curriculum vitae and a brief statement of knowledge and research interests, including the reasons why the candidate is interested in pursuing postgraduate studies in the Department.
- Two (2) recommendation letters (including the full name, title, position, address, telephone, and email address of the recommender). The letters can be from members of the academic faculty of the candidate's educational institution or from faculty members of other institutions familiar with the candidate's academic training. In the case of candidates with significant professional experience, the letters can come from individuals who have professionally supervised them.
- Copies of scientific publications, if available.
- Certificate of relevant professional experience (if applicable).
- Photocopy of both sides of the identification card or passport.
- Any other evidence that can support the candidate's application.

The following factors contribute to the final grading and ranking of the candidates:

- The overall grade of the candidate's undergraduate degree. In the case of candidates who have not yet graduated, the grades in the courses they have successfully completed and their number are taken into consideration.
- Grades in undergraduate courses relevant to the MPhil program, if applicable.
- Performance in the undergraduate thesis.
- The candidate's grades in the certificates that demonstrate their proficiency in the English language.
- Possible research activity of the candidate, supported by scientific publications or announcements.
- The candidate's potential work experience in research positions and subjects related to the MPhil program.
- Recommendation letters.
- Personal interview, if requested by the selection committee (EEMF) of the MPhil program.

The Director of the MPhil Program

*(signature)**

Iraklis Varlamis

Professor

**The signature has been placed on the original document, which is kept in the organization's archives.*