

# NATIONAL TECHNICAL UNIVERSITY OF ATHENS INTERDEPARTMENTAL POSTGRADUATE STUDIES PROGRAM "APPLIED MECHANICS"

# CALL FOR APPLICATIONS FOR POSTGRADUATE STUDIES FOR THE ACADEMIC YEAR 2024-2025

## Organization

The Schools of Applied Mathematics and Physical Sciences (coordinating), Mechanical Engineering, Civil Engineering, and Naval Architecture and Marine Engineering of the National Technical University of Athens offer the **Interdepartmental Postgraduate Studies Program "Applied Mechanics"** and call for applicants to express their interest in participating at the MSc Program in the academic year 2024-2025.

The MSc Program "Applied Mechanics" has been included at the internationalization project of NTUA postgraduate studies [the project "Support for Internationalization Actions of Foreign Language Speaker Postgraduate Studies of the National Technical University of Athens" (MIS 6004804) is co-financed by the European Union through the Operational Programme "Human Resources and Social Cohesion"], with the aim to promote the studies opportunities for international students, along with the research and educational activities of NTUA. In this context, the language of instruction will be English.

## **Program Goals**

The MSc program covers the need for specialized and high-level postgraduate studies in current technological subjects. It was designed to serve the promotion of knowledge in applied engineering matters that directly concern problems of dynamics of structures, engineering of materials, dynamics of electromechanical systems, and biomechanics. Applied mechanics combined with numerical simulations as well as the experimental processes can, in many cases, replace long-term and expensive experiments for the design of new materials, devices and complex systems. A pioneering role in all the above can be played by the Mechanics of Materials with microstructure, the Dynamic Analysis of Structures, Computational Mechanics and Experimental Mechanics, fields that this master's degree serves in a unique way. Completion of the MSc program offers participants knowledge in innovative technologies that can be applied to a multitude of industrial and commercial applications, as well as in research to discover particularly important new phenomena, which arise due to the complexity of engineering systems and the non-local nature of interactions which take place in them. The overall aim is to prepare the student with an internationally competitive specialization.

#### **Program structure**

The program, with a minimum duration of three (3) academic semesters for completion and maximum study period of four (4) semesters, leads to a Postgraduate Diploma Master of Science, corresponding to a total of 90 ECTS credits. The study program includes coursework (compulsory and elective courses) leading to three tracks: (I) Mechanics of Materials, (II) Dynamics, and (III) Failure Analysis and Prevention. Attendance of lectures and computational or laboratory sessions is mandatory within the first two semesters, while the third semester is dedicated to the elaboration of Master thesis, written in English.

#### Eligibility

Graduates from the National Technical University of Athens and from other Engineering Schools as well as graduates from Natural and Technological Sciences, and Mathematics, or related subjects, are eligible for attendance on the program. The program is open to graduates of Greek Universities or equivalent foreign universities recognized by the Hellenic National Academic Recognition and Information Center - NARIC (DOATAP). Students that will be graduating in September 2024 are also eligible.



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Human Resources and Social Cohesion Programme A maximum of twenty (20) students will be enrolled in the MSc program, upon selection, provided that they meet all the necessary requirements for successful attendance of the courses. In the selection criteria of postgraduate students, the knowledge of the English language will be counted from this year with increased weight.

International students are welcome and all candidates are considered on an individual basis. Starting in 2023, non-EU students must pay tuition fees of 500 Euros per studies semester.

# Application process

Interested candidates are invited to submit their application **online** at <u>pgradsemfe@mail.ntua.gr</u> (cc: <u>sandra@central.ntua.gr</u>) **until June 30, 2024** by sending the following documents:

- Application (attached)
- Curriculum Vitae in English
- Copy of transcripts of grades from universities attended
- Certificate of Proficiency in English (level C1 / C2)
- Two Letters of Recommendation. Candidates should request to be sent directly at <u>sandra@central.ntua.gr</u>

## More information

Prof. A. E. Giannakopoulos (<u>agiannak@central.ntua.gr</u>), Assoc. Prof. J. Kominis (<u>gkomin@central.ntua.gr</u>), Assoc. Professor G. Tsiatas (<u>gtsiatas@central.ntua.gr</u>), and Mrs. S. Samouilidou (<u>sandra@central.ntua.gr</u>).

Athens, June 2024 The MSc Program Director

Prof. A. E. Giannakopoulos





Human Resources and Social Cohesion Programme