

Deputy Director, S.P. Timoshenko Institute of Mechanics
of the National Academy of Sciences of Ukraine,
Corresponding-Member of NAS of Ukraine

S.A. Storozhuk

email: stevan@ukr.net

Berlin, 9. February 2026

Review of the Educational and Scientific Program “Mechanics of a Deformable Solid and Theoretical Mechanics” of Ph.D. training on the third educational and scientific level of higher education in the specialty 113 “Applied Mathematics” of the S.P. Timoshenko Institute of Mechanics of NAS of Ukraine

The educational and scientific program “Mechanics of a deformable solid and theoretical mechanics” was developed by leading scientists at the S.P. Timoshenko Institute of Mechanics of the NAS of Ukraine. The main goal of the program is to prepare highly qualified specialists at the Doctor of Philosophy level, who possess the theory and methodology of scientific research and are capable of solving complex problems in professional, research, and innovation activities in the fields of deformable solid mechanics and theoretical mechanics.

Training specialists in these scientific areas of modern mechanics is an urgent task, and, in particular, is due to the emergence of new materials with complicated properties and the need for computer modeling of their behavior under complex loads, the need to assess the reliability and durability of the operation of structural elements in various industries, etc.

This educational and scientific program meets the modern needs of the scientific and academic community and, to some extent, is unique in this region, combining the training of applicants in two areas: the mechanics of a deformable solid and theoretical mechanics.

The program has a 4-year study period and a total of 228 ECTS credits, of which the educational component is 48 ECTS credits. The educational component includes cycles of general training, special professional and practical training, and a cycle of free-choice disciplines for graduate students. The scientific component covers dissertation work, speeches at scientific seminars and international conferences, and the preparation of scientific papers on the topic of their own research.

Note that the subjects of the proposed selective disciplines reflect the main scientific directions of research that have been successfully developed at the Institute of Mechanics over the past decades and are presented in numerous monographs and scientific articles in international professional journals. In addition, the proposed

Fakultät V – Verkehrs- und
Maschinensysteme
Institut für Mechanik

Fachgebiet Kontinuumsmechanik
und Materialtheorie

LKM

Prof. Dr. rer. nat. W. H. Müller

Sekretariat MS 2
Raum MS 08a
Einsteinufer 5
10587 Berlin

Telefon +49 (0)30 314-22332
wolfgang.h.mueller@tu-berlin.de

selective disciplines allow applicants to shape their own educational trajectory and to gain deep theoretical knowledge of the chosen topic of scientific research, which will contribute to the successful defense of the dissertation and to the conduct of original independent research.

The program also provides the opportunity to acquire theoretical knowledge and practical experience in conducting educational activities and applying modern teaching methods in applied mathematics, which will contribute to the applicant's successful pedagogical career.

The program also provides the opportunity to acquire theoretical knowledge and practical experience in conducting educational activities and applying modern teaching methods in applied mathematics, thereby contributing to the applicant's successful pedagogical career.

Thus, the presented scientific and educational program is relevant and meets the requirements for the preparation of doctors of philosophy in the specialty "Applied Mathematics."

Sincerely,



Prof. Dr. rer. nat. Wolfgang H. Müller