

REVIEW
**for the educational program 8D07103 “Materials Science
and Engineering”**

The evaluation of the doctoral educational program (EP) 8D07103 “Materials Science and Engineering” was conducted to assess its academic quality, research intensity, international relevance, and compliance with global standards for doctoral training in advanced materials science.

The program demonstrates a high level of scientific rigor and is well aligned with international practices of PhD education. The structure of the EP reflects a balanced combination of fundamental theoretical preparation, advanced experimental methodology, and independent scientific research aimed at generating new knowledge in the field of materials science and engineering.

The goals and learning outcomes of the doctoral program emphasize the development of deep scientific competencies necessary for conducting original research at a high international level. The EP provides training in advanced topics such as nanomaterials, functional composites, energy materials, carbon-based systems, biomaterials, surface engineering, and innovative production technologies. This thematic focus corresponds to modern global trends and significantly reinforces the relevance of the program.

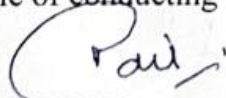
Strong emphasis is placed on developing methodological skills, including experimental design, critical data analysis, the use of modern characterization techniques (electron microscopy, spectroscopy, thermal analysis, XRD, XRF, AFM), as well as advanced computational approaches. Doctoral students are encouraged to integrate interdisciplinary methods and conduct research in collaboration with industrial and academic partners.

The structure of the program includes research seminars and scientific internships that comply with international PhD standards.

One of the major strengths of this EP is its integration with leading research laboratories and industrial partners. According to the documentation provided by the University, doctoral students have access to modern equipment and specialized centers for materials synthesis, characterization, and engineering. This infrastructure provides a solid foundation for conducting high-quality research and implementing innovative projects in areas such as renewable energy, additive manufacturing, adsorption processes, and environmental applications.

The curriculum also fosters the development of leadership skills, academic ethics, project management, teamwork, and communication competencies all of which represent essential components of a contemporary doctoral program.

Based on the analysis, I conclude that the doctoral program 8D07103 “Materials Science and Engineering” is well-structured, scientifically robust, and competitive at the international level. The EP fully meets the requirements for training highly qualified researchers capable of conducting original and impactful scientific work.



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