

# THEORY OF PHYSICS EDUCATION

## Characteristics of the study program

- *Title of the study program:* Theory of Physics Education
- *Study field:* 1165 Physics Education
- *Degree of the study:* doctoral
- *Duration of the study:* 3 academic years
- *Degree:* philosophiae doctor (PhD.)
- *Guarantor of the program:* prof. RNDr. Stanislav Holec, PhD.

## Scope of the study program

The program is focused on the didactics of physics, relevant physics topics and pedagogical research as well as the use of modern technologies supporting physics teaching. The study comprises of two parts: a study part and a research part. A plan of the study is prepared by the supervisor, and should be approved by a committee. Doctoral students participate in research activities as well as in teaching. To obtain the degree „PhD.“ it is necessary to pass some special exams and to submit a doctoral thesis.

## Profile of the graduate

The graduate should be able to create and inquire concepts of physics education. He can propose and experimentally verify new concepts of physics teaching in all types of schools. The graduate is able to act as a researcher in the physics education area and to cooperate with colleagues from other fields of science education. He is also able to act as a specialist in the field of training of physics teachers as well as training of gifted students.

## Requirements on applicants

The applicant is required to have completed the Master-degree in teaching of physics. Masters in other subjects are considered on case-by-case basis. All applicants have to pass an entrance exam. The exam committee is appointed by the Dean of the Faculty of Natural Sciences. The supervisor of a prospective graduate student is a member of the exam committee.

## Members of the Theory of Physics Education division

prof. RNDr. Stanislav Holec, PhD. – FPV UMB Banská Bystrica

prof. Ing. Ivo Čáp, CSc. – EF ŽU Žilina

prof. RNDr. Ľubomír Zelenický, CSc. – FPV UKF Nitra

doc. RNDr. Peter Čerňanský, PhD. – FPV UKF Nitra

doc. RNDr. Peter Demkanin, PhD. – FMFI UK Bratislava

doc. RNDr. Zuzana Ješková, PhD. – PF UPJŠ Košice

doc. RNDr. Viera Lapitková, CSc. – FMFI UK Bratislava

doc. RNDr. Janka Raganová, PhD. – FPV UMB Banská Bystrica

doc. Dr. Boris Tomášik – FPV UMB Banská Bystrica

doc. RNDr. Marián Kireš, PhD. – PF UPJŠ Košice

dr.h.c. doc. PaedDr. Vladimír Šebeň, PhD. – FHPV PU Prešov

doc. PaedDr. Miriam Spodniaková Pfefferová, PhD. – FPV UMB Banská Bystrica

**Fees:** 4000 € per ac. year

The fee does not cover living expenses at the place. Students may apply for accommodation at the dormitories of Matej Bel University (according to the information on the website).

**Contact:**

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