

## RECOMMENDED STUDY PLAN

**Name of the higher education institution:** *University of Presov*

**Type of the study programme:** *standard/non combination*

**Name of the study programme:** *Theory of physics education*

**Name of the study field:** *fyzika*

**Name of the faculty/university workplace:** *Faculty of Humanities and Natural Sciences*

**Degree of study:** *3rd*

**Form of study:** *full-time study*

**Method of study:** *presential method of study*

**Courses of the Study part:**

| COMPULSORY SUBJECTS |               |                                                                                                    |                      |                              |         |                                   |          |           |                      |                 |
|---------------------|---------------|----------------------------------------------------------------------------------------------------|----------------------|------------------------------|---------|-----------------------------------|----------|-----------|----------------------|-----------------|
| Code                | Prerequisites | Title<br><i>Ensures</i>                                                                            | Recommended semester | Assessment                   | Credits | Scope of direct teaching (weekly) |          |           |                      | Profile subject |
|                     |               |                                                                                                    |                      |                              |         | Lectures                          | Seminars | Exercises | Laboratory exercises |                 |
|                     |               | <b>Dissertation Examination</b><br><i>Examination committee</i>                                    | 4.                   | <i>state exam</i>            | 16      | -                                 |          |           |                      | yes             |
|                     |               | <b>Educometry</b><br><i>Dr. Majherová</i>                                                          | 3.                   | <i>exam</i>                  | 4       | 26                                |          |           |                      | yes             |
|                     |               | <b>Methodology of Educational Sciences</b><br><i>prof. Pasternáková,<br/>Mgr. Bozogáňová</i>       | 2.                   | <i>exam</i>                  | 3       | 26                                |          |           |                      | yes             |
|                     |               | <b>Final Thesis for the Dissertation Exam and Project of the Dissertation</b><br><i>supervisor</i> | 3.                   | <i>continuous assessment</i> | 4       | -                                 |          |           |                      | yes             |
|                     |               | <b>Selected chapters from Physics</b><br><i>Prof. Reiffers</i>                                     | 3.                   | <i>exam</i>                  | 5       | 26                                |          |           |                      | yes             |
|                     |               | <b>Selected chapters from Didactics of Physics</b><br><i>Doc. Šebeň</i>                            | 1.                   | <i>exam</i>                  | 5       | 26                                |          |           |                      | yes             |

|  |  |                                                                         |    |             |   |    |  |  |  |            |
|--|--|-------------------------------------------------------------------------|----|-------------|---|----|--|--|--|------------|
|  |  | <b>Introduction to University Pedagogy</b><br><i>prof. Pasternáková</i> | 1. | <i>exam</i> | 5 | 26 |  |  |  | <i>yes</i> |
|--|--|-------------------------------------------------------------------------|----|-------------|---|----|--|--|--|------------|

| COMPULSORY OPTIONAL SUBJECTS |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                      |                              |         |                                   |          |           |                      |                 |
|------------------------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------|---------|-----------------------------------|----------|-----------|----------------------|-----------------|
| Code                         | Prerequisites | Title<br><i>Ensures</i>                                                                                                                                                                                                                                                                                                                                                                                                                                    | Recommended semester | Assessment                   | Credits | Scope of direct teaching (weekly) |          |           |                      | Profile subject |
|                              |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                      |                              |         | Lectures                          | Seminars | Exercises | Laboratory exercises |                 |
|                              |               | <b>Foreign language in Academic Discourse – English language</b><br><i>PaedDr. Kofritová</i>                                                                                                                                                                                                                                                                                                                                                               | 1.-4.                | <i>exam</i>                  | 5       | 26                                |          |           |                      | <i>yes</i>      |
|                              |               | <b>Individual Study of Scientific Literature (semestral)</b><br><i>supervisor</i>                                                                                                                                                                                                                                                                                                                                                                          | 1.-4.                | <i>passed</i>                | 2       | -                                 |          |           |                      | <i>yes</i>      |
|                              |               | <b>Stay abroad (monthly)</b><br><i>supervisor</i>                                                                                                                                                                                                                                                                                                                                                                                                          | 1.-4.                | <i>passed</i>                | 4       | <i>month</i>                      |          |           |                      | <i>no</i>       |
|                              |               | <b>Stay abroad (weekly)</b><br><i>supervisor</i>                                                                                                                                                                                                                                                                                                                                                                                                           | 1.-4.                | <i>passed</i>                | 1       | <i>week</i>                       |          |           |                      | <i>yes</i>      |
|                              |               | <i>Field specialization<sup>1</sup></i><br>- <i>Selected Chapters from Modern Physics – prof. Reiffers</i><br>- <i>Technique of School Experiment – doc. Šebeň</i><br>- <i>Development of Educational Tools – prof. Pavelka</i><br>- <i>Selected Problems from Didactics of Physics – doc. Šebeň</i><br>- <i>Computer-aided physics laboratory – doc. Il'kovič</i><br>- <i>Seminar from Selected Problems of Frontier Physics Fields – doc. Csátáryová</i> | 3.                   | <i>continuous assessment</i> | 4       | 26                                |          |           |                      | <i>yes</i>      |

| OPTIONAL SUBJECTS |               |                                                |                         |               |         |                                      |          |           |                         |                 |
|-------------------|---------------|------------------------------------------------|-------------------------|---------------|---------|--------------------------------------|----------|-----------|-------------------------|-----------------|
| Code              | Prerequisites | Title<br><i>Ensures</i>                        | Recommended<br>semester | Assessment    | Credits | Scope of direct teaching<br>(weekly) |          |           |                         | Profile subject |
|                   |               |                                                |                         |               |         | Lectures                             | Seminars | Exercises | Laboratory<br>exercises |                 |
|                   |               | Co-authorship of Educational Texts and Tools   | 2.-6.                   | <i>passed</i> | 1       | -                                    |          |           |                         | <i>no</i>       |
|                   |               | Professional pedagogical activity <sup>3</sup> | 2.-6.                   | <i>passed</i> | 1       | -                                    |          |           |                         | <i>no</i>       |

Notes:

- 1/ Student chooses the subject of the field specialization from the list of courses offered by the department in connection with the topic of his/her dissertation (the list can be updated)
- 2/ A maximum of 4 credits per study is included (into the completion of the study part)
- 3/ A maximum of 3 credits per study is included

**Courses of the Scientific part:**

| COMPULSORY SUBJECTS |               |                                                                                         |                         |               |         |                                      |          |           |                         |                 |
|---------------------|---------------|-----------------------------------------------------------------------------------------|-------------------------|---------------|---------|--------------------------------------|----------|-----------|-------------------------|-----------------|
| Code                | Prerequisites | Title<br><i>Ensures</i>                                                                 | Recommended<br>semester | Assessment    | Credits | Scope of direct teaching<br>(weekly) |          |           |                         | Profile subject |
|                     |               |                                                                                         |                         |               |         | Lectures                             | Seminars | Exercises | Laboratory<br>exercises |                 |
|                     |               | <i>Active Participation at Conference Organising Committee</i>                          | 1.-6.                   | <i>passed</i> | 2       | -                                    |          |           |                         | <i>no</i>       |
|                     |               | <i>Active Participation at Homeland Scientific Event<sup>5</sup></i>                    | 1.-6.                   | <i>passed</i> | 5       | -                                    |          |           |                         | <i>no</i>       |
|                     |               | <i>Active Participation at Foreign Scientific Event</i>                                 | 1.-6.                   | <i>passed</i> | 10      | -                                    |          |           |                         | <i>no</i>       |
|                     |               | <i>Dissertation Defence</i>                                                             | 6.                      | <i>passed</i> | 30      | -                                    |          |           |                         | <i>no</i>       |
|                     |               | <i>Review and Research Paper Published in Journal/<br/>Proceedings</i>                  | 1.-6.                   | <i>passed</i> | 5       | -                                    |          |           |                         | <i>no</i>       |
|                     |               | <i>Co-authorship of Scientific Study Published in<br/>Foreign Journal /Proceedings</i>  | 1.-6.                   | <i>passed</i> | 5       | -                                    |          |           |                         | <i>no</i>       |
|                     |               | <i>Co-authorship of Scientific Study Published in<br/>Homeland Journal /Proceedings</i> | 1.-6.                   | <i>passed</i> | 3       | -                                    |          |           |                         | <i>no</i>       |
|                     |               | <i>Research Paper Published in Homeland Reviewed<br/>Journal / Proceedings</i>          | 1.-6.                   | <i>passed</i> | 10      | -                                    |          |           |                         | <i>no</i>       |
|                     |               | <i>Research Paper Published in Foreign Reviewed<br/>Journal / Proceedings</i>           | 1.-6.                   | <i>passed</i> | 20      | -                                    |          |           |                         | <i>no</i>       |

| OPTIONAL SUBJECTS |               |                                                                                                |                         |               |         |                                      |          |           |                         |                 |
|-------------------|---------------|------------------------------------------------------------------------------------------------|-------------------------|---------------|---------|--------------------------------------|----------|-----------|-------------------------|-----------------|
| Code              | Prerequisites | Title<br><i>Ensures</i>                                                                        | Recommended<br>semester | Assessment    | Credits | Scope of direct teaching<br>(weekly) |          |           |                         | Profile subject |
|                   |               |                                                                                                |                         |               |         | Lectures                             | Seminars | Exercises | Laboratory<br>exercises |                 |
|                   |               | <i>Homeland Conference Poster</i>                                                              | 1.-6.                   | <i>passed</i> | 3       | -                                    |          |           |                         | <i>no</i>       |
|                   |               | <i>Foreign Conference Poster</i>                                                               | 1.-6.                   | <i>passed</i> | 5       | -                                    |          |           |                         | <i>no</i>       |
|                   |               | <i>Reduction and Editorial Activity (Proceedings)</i>                                          | 1.-6.                   | <i>passed</i> | 2       | -                                    |          |           |                         | <i>no</i>       |
|                   |               | <i>Co-authorship of the Monograph</i>                                                          | 1.-6.                   | <i>passed</i> | 15      | -                                    |          |           |                         | <i>no</i>       |
|                   |               | <i>Participation in scientific grant solutions<br/>project (semester)</i>                      | 1.-6.                   | <i>passed</i> | 5       | -                                    |          |           |                         | <i>no</i>       |
|                   |               | <i>Scientific Monograph /Homeland</i>                                                          | 1.-6.                   | <i>passed</i> | 20      | -                                    |          |           |                         | <i>no</i>       |
|                   |               | <i>Scientific Monograph /Foreign</i>                                                           | 1.-6.                   | <i>passed</i> | 30      | -                                    |          |           |                         | <i>no</i>       |
|                   |               | <i>Leadership of Gained „PU Grant for PhD Students“<br/>or Other Scientific Grant Projects</i> | 1.-6.                   | <i>passed</i> | 10      | -                                    |          |           |                         | <i>no</i>       |

The student will receive 132 credits for compulsory subjects, which is 73.3 % of select an option credits from 180 credits that are required for successful completion of the study.

The recommended study programme offers the possibility to select compulsory optional subjects for 16 credits and optional for 92 credits.