**Table 5.1** Course specification to doctoral study programs

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| **Course name: Study and research 1** |
| **Teacher or teachers:** |
| **Course status:** Core |
| **Number of ECTS:** 6 |
| **Precondition courses:** None |
| **Educational goal**Implementation of fundamental, theoretical-methodological and professional-applicable knowledge and methods for solving the concrete problems within hydroinformatics. By studying literature, a student acquires knowledge of the methods intended for creative solving of new tasks and with engineering practice in their solving. The goal of students activities in this part of research is reflected in acquisition of necessary experience through solving complex problems and tasks and recognizing potential for application of previously acquired knowledge in practice. |
| **Educational outcomes** Building students’ capacity to independently apply the knowledge previously acquired in various areas they previously studied, in order to systemically analyze the structure of the presented problem for the purpose of making conclusions about the possible directions of its solving. Through independent usage of literature, students broaden their knowledge of the selected field and learn about the various methods and works related to eh similar uses. The end result is publishing of the paper at an international conference.  |
| **Course content**It is formed individually according to the interest of the student and future needs of production of a concrete doctoral dissertation, its complexity and structure. Students are encouraged to study the concrete professional literature related to the study field. |
| **Literature** |
| **Number of active teaching classes (weekly)** | Lectures: 0 | Study research work: 9 |
| **Teaching methods**In the framework of the study research work, students have consultations with mentors, and as necessary with other teachers dealing with problems in the topic field of the paper. For the purposes of the research work topic, students perform certain measurements, tests, numbering, surveys and other researches, statistic data processing. |
| **Knowledge evaluation (maximum 100 points)****Pre-examination obligations Points Final exam Points**Term paper **50** Оral part of the exam **50** |