

## Planning of Information Systems

**Abstract.** The course "Planning of Information Systems" refers to the list of free choice subjects for postgraduate student. It provides professional development of postgraduate student and aimed at forming of competencies in informational technologies area. Modern information systems are created for processing of large amounts of information at severe restrictions at the time of issue of results. They have a complex formalization of decision-making procedures for most tasks, high degree of integration of elements which are part of the system, a large amounts of links between elements, are characterized by flexibility and the ability to modify.

**The number of credits: 4**

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**The purpose of the course:** give basic theoretical position relative to information systems (IS), familiarize with modern approaches to the problem, with the composition and content of creation IS manufacturing operations at various levels of the hierarchy, and with the automation of design work, formalization of the design process and designing methods of management information system.

**Prerequisites:**

**PhD student should know:** the course has theoretical bases and methodology and requires preliminary study of cycle of mathematical, economic, technical and other courses. Know the existing standards, guidance documents and training materials, which reveal the essence of the process of creating IS.

**PhD student should be able to:** use in educational, research and teaching activities knowledge to create IS with the purpose of the automated receipt of all parameters which are necessary for decision making in management target object. To be able to create the right system or a separate task to identify and correctly formulate the criteria and restrictions.

**Content modules:**

- system integrators aspects theory of creation of information systems;
- the process of creating an information system;
- technology of general training solutions to create an information system;
- basic principles of designing of information support;
- design outgoing and incoming information messages;
- implementation, accompaniment and modernization of IS;
- management of the design process of IS.

**Language teaching:** English

**Place in the structural and logical scheme:** ДВА.3.02.12 and read on the second year of study.

**Term of study:** course is studied on the second year of study on the educational and scientific level "Ph.D." in the volume to 120 hours, including 24 hours of classroom lessons (18 hours – lectures, 4 hours – workshops, 2 hours – consultations), 96 hours of independent work.