

**The name of the academic discipline:  
«Software Design»**

<b>Code and name of specialty</b>	6-05-0612-01 Software Engineering
<b>Training course</b>	1/2
<b>Semester of training</b>	2/3
<b>Number of class hours:</b>	120
<b>Lectures</b>	60
<b>Seminar classes</b>	-
<b>Practical classes</b>	-
<b>Laboratory classes</b>	60
<b>Form of current assessment (credit/differential credit/exam)</b>	credit/exam
<b>Number of credits</b>	7
<b>Competencies to be formed</b>	Mastering the academic discipline "Software Design" should ensure the formation of basic professional competence: to use formal methods of software design, evaluation of the complexity of algorithms and their practical implementation in the development of software products.
<p><b>Summary of the academic discipline:</b></p> <p>The course "Software Design" is focused on studying the features of instrumental systems. It provides a basic description of the procedures for creating software, describes the main elements of design. Modern standards in design and typical tasks related to software design are considered. The course includes algorithms for planning and designing systems, design languages used in application development, as well as a methodology for testing software operation.</p>	