




Integrated Computer Aided Technologies

Major «Technology of Aircraft Manufacturing Department»

Level of Higher Education	<i>first (Bachelor)</i>		
Course Status	<i>student's choice</i>		
Scope of discipline	120 hours / 4 ECTS credits		
Language	<i>Ukrainian / English</i>		
What will be studied (subject of study)	<p>As a result of studying the discipline, students will be able to study:</p> <p>Classification of software for automated systems, basic concepts of CALS-technologies.</p> <p>Basic design techniques for complete and lightweight assemblies.</p> <p>Creating and editing parts in the context of an assembly, adding new parts to an assembly.</p> <p>Breaking, blocking and deleting external links. Creation of drawings, formation of specifications, automatic placement of positions on assembly drawings.</p> <p>Organize assemblies and improve performance when working with assemblies.</p> <p>Analysis of the functioning and verification of the dynamics of the movement of additions.</p>		
Why is it interesting/should be studied (goal)	<p>Purpose: formation of students' knowledge about the basics of CAD functioning and skills of working with automation systems for engineering activities in the preparation of production.</p> <p>Assignment: training in modern methods of designing prefabricated technological equipment for the production of aviation and rocket-space equipment using automated CAD / CAM / CAE / CALS systems.</p>		
How can you use the acquired knowledge and skills (competencies)	<p>Knowledge and understanding of the subject area and understanding of professional activity.</p> <p>Ability for abstract thinking, analysis and synthesis.</p> <p>Ability to evaluate and ensure the quality of work performed.</p> <p>Internal need for purposeful improvement of professional knowledge and skills throughout training and professional activities.</p> <p>The ability to supply and solve problems of designing the parameters of products and processes for their production;</p> <p>Ability to use the appropriate software (programming languages, packages) to perform physical and mathematical calculations in the design and manufacture of aircraft.</p> <p>Develop technical and design documentation for the manufacture of the main elements of aerospace technology</p>		
Organization of training	<p>Types of classes: lectures, laboratory, self-study</p> <p>Forms of education: full-time / part-time</p> <p>Forms of control: exam</p>		
Department	Technology of Aircraft Manufacturing		
Faculty	Aircraft Engineering		
Teacher		Name	Oleksiy Pavlenko
		Position	Senior Lecturer
		Academic title	
		Scientific degree	PhD
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Links to course materials	1. Електронна бібліотека кафедри №104: \\Domik\SHARED\Методичні матеріали\SOLIDWORKS. 2. https://mentor.khai.edu/course/view.php?id=706
Link to work program (syllabus)	