


Academic discipline

**Computer Aided Technologies**

**Specialities:** 131 Applied Mechanics; 133 Industrial Machinery Engineering; 134 Aerospace Engineering; 141 Power Engineering, Electrical Engineering and Mechanics; 142 Power Engineering; 274 Automobile Transport



<b>Level of Higher Education</b>	<i>first level (short cycle) of Higher Education</i>		
<b>Course Status</b>	<i>student's choice / 7<sup>th</sup> semester</i>		
<b>Scope of discipline</b>	150 hours / 5 ECTS credits: lectures (32 hours), laboratory work (32 hours), student self-study (86 hours)		
<b>Language</b>	<i>Ukrainian / English</i>		
<b>Annotation</b>	<p>The course will cover the following topics:</p> <p><i>Basic design technologies in CAD SolidWorks</i></p> <ul style="list-style-type: none"> <li>– Theoretical foundations of three-dimensional modeling.</li> <li>– Creation and editing of sketches of a solid model in the SolidWorks graphics editor.</li> <li>– Creation and editing of a solid model in the SolidWorks graphics editor.</li> </ul> <p><i>Advanced Design Technologies in SolidWorks CAD</i></p> <ul style="list-style-type: none"> <li>– Reference geometry.</li> <li>– Special modeling methods.</li> <li>– Multibody and derived parts.</li> <li>– Part configuration.</li> <li>– Measuring and editing the model.</li> </ul> <p><i>Topics of laboratory classes:</i></p> <ul style="list-style-type: none"> <li>– Revolved elements and extruded elements.</li> <li>– Lofted elements.</li> <li>– Rounding.</li> <li>– Array elements.</li> <li>– 3D sketch.</li> <li>– Multibody parts.</li> <li>– Design tables.</li> <li>– The equation.</li> </ul>		
<b>Prerequisites</b>	–		
<b>Department</b>	Technology of Aircraft Manufacturing (104)		
<b>Faculty</b>	Aircraft Engineering		
<b>Teacher</b>		<b>Name</b>	<b>Oleksiy Pavlenko</b>
		<b>Position</b>	Associate Professor
		<b>Academic title</b>	–
		<b>Scientific degree</b>	PhD
		<b>e-mail</b>	<a href="mailto:alexey.pavlenko@khai.edu">alexey.pavlenko@khai.edu</a>
	<a href="https://mentor.khai.edu/course/view.php?id=714">https://mentor.khai.edu/course/view.php?id=714</a>		