




Academic discipline

Welding in Aircraft Manufacturing

Field of study: 13 “Mechanical Engineering”

Level of Higher Education	first level (short cycle) of Higher Education		
Course Status	student's choice		
Scope of discipline	150 hours / 5 ECTS credits: lectures (32 hours), laboratory work (32 hours), student self-study (86 hours)		
Language	Ukrainian / English		
Annotation	<p>The course will cover the following topics:</p> <p>Thermal welding methods</p> <ul style="list-style-type: none"> – Theoretical foundations of welding – Thermal welding methods – Features of the technology of fusion welding of various metals and alloys <p>Thermomechanical welding methods</p> <ul style="list-style-type: none"> – Mechanical welding methods – Soldering of metals – Quality control of welded joints <p>Topics of laboratory classes:</p> <ul style="list-style-type: none"> – Manual arc welding on AC machines – Automatic submerged arc welding – Argon-arc welding with infusible electrode – Plasma welding of thin metals – Electrocontact spot welding – Electrocontact seam welding – Electric contact butt welding – Cold welding of plastic metals 		
Prerequisites	–		
Department	Technology of Aircraft Manufacturing (104)		
Faculty	Aircraft Engineering		
Teacher		Name	Vyacheslav Nikichanov
		Position	Associate Professor
		Academic title	–
		Scientific degree	PhD
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