



Technologies of Protective Coating

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

Level of Higher Education	first level 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	The course with <i>Typical and p</i> <i>coatings</i> – design and the technological parts. Quality preparation for passic means coatings. Technological parts. Quality preparation for passic means coatings. Technological for an end parts of the technological for artificial d – Ways to imfor parts of he galvanic and p technologies for technologies for parts of the technologies for technologies for the technologies for the technologies for the technologies for the technologies for technologies fo	 The course will cover the following topics: Typical and perspective means and methods of deposition and control of corrosion-resistant coatings design and technological features of the aircraft, helicopter as objects of corrosion protection. Technological means of increasing the corrosion resistance of surfaces of aerospace engineering parts. Quality indicators and methods of control of protective coatings. Types of surface preparation for coating. Basic means of metal surfaces. Quality indicators and methods for monitoring metal protective coatings. Technological features of corrosion protection of parts made of steel, aluminum, magnesium alloys. The main indicators of the quality of galvanic coatings and the causes of defects. Components of paints and varnishes. Classification of paints and varnishes. Methods for applying. Components. Equipment and equipment for electroplating and paint coating shops Equipment and equipment for electroplating and paint coating shops. Equipment for chemical cleaning of surfaces of applying protective coatings. The structure of the technological develop the technology of applying and controlling protective coatings for parts of helicopters and aircraft. Progressive methods of organizing production in the field of galvanic and paint coatings. Equipment for painting in an electric field. Environmentally friendly technologies for electroplating and varnishes and coatings Topics of laboratory classes: Control of the basic properties of paints and varnishes and coatings 			
Prerequisites	-				
Department	Technology of Aircraft Manufacturing (104)				
Faculty	Aircraft Engineering				
Teacher	Name	Oleksiy Pavlenko	Name	Iryna Voronko	
	Position	Associate Professor	Position	Associate Professor	
	Academic title	_	Academic title	-	
	Scientific degree	PhD	Scientific degree	PhD	
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