Reliability of electromechanical systems

Possible restrictions No restrictions HE level First (undergraduate)		
Possible restrictions	Department that provides	Automation of electromechanical systems and electric drive
He level First (undergraduate) Specialties for which the discipline is adapted 141 "Electric power engineering, electrical engineering and electromechanics" 141 "Electric power engineering, electrical engineering and electromechanical systems of classroom and independent work 142 143 143 144		
Specialties for which the discipline is adapted 4	Possible restrictions	No restrictions
discipline is adapted 4	HE level	1 2 ,
The scope of the discipline and the distribution of hours of classroom and independent work Language of teaching Requirements for starting the study of the discipline What will be studied Why is it interesting/should be studied? Why is it interesting/should be studied? What you can learn How to use acquired knowledge and skills Information support of the discipline 4 ECTS credits classroom classes: lectures – 36 hours, practical classes – 18 hours independent work - 66 hours Ideas to describe the discipline work - 66 hours Wrainian Knowledge of electric drive control, electric drive, automated electric drive, electric machines, theoretical foundations of electrical engineering, automation systems The discipline studies methods of analyzing the reliability of electromechanical systems and ways to increase it. For this, factors that affect the reliability of electromechanical systems are studied. The basics of reliability calculations of electromechanical systems with various types of redundancy are also considered. Issues of reliability of renewable electromechanical systems are considered The issue of analyzing the reliability of electromechanical systems and at the stage of modernization of existing equipment. Therefore, this discipline will be useful primarily to those who plan to design electromechanical systems or their components in the future. What you can learn — analyze factors that affect the reliability of electromechanical systems; — evaluate the reliability of electromechanical systems with loaded, unloaded and sliding redundancy; — evaluate the reliability of renewable electromechanical systems. How to use acquired knowledge and skills Syllabus, lecture notes, practical training manual, distance course.	Specialties for which the	141 "Electric power engineering, electrical engineering and electromechanics"
The scope of the discipline and the distribution of hours of classroom and independent work Language of teaching Requirements for starting the study of the discipline What will be studied What will be studied Why is it interesting/should be studied? Why is it interesting/should be studied? What you can learn What you can learn What you can learn What you can learn What wow can learn Syllabus, lecture notes, practical training manual, distance course. Syllabus, lecture notes, practical training manual, distance course. Syllabus, lecture notes, practical training manual, distance course.	discipline is adapted	
classroom classes: lectures — 36 hours, practical classes — 18 hours independent work independent work - 66 hours Varinian Varinian	Course	4
independent work Language of teaching Requirements for starting the study of the discipline What will be studied Why is it interesting/should be studied? What you can learn What you can learn What you can learn How to use acquired knowledge and skills Information support of the discipline Skrowledge of electric drive control, electric drive, automated electric drive, electric machines, theoretical foundations of electrical engineering, automation systems The discipline studies methods of analyzing the reliability of electromechanical systems and ways to increase it. For this, factors that affect the reliability of electromechanical systems and mathematical criteria for reliability of releability of electromechanical systems with various types of redundancy are also considered. Issues of reliability of renewable electromechanical systems are considered The issue of analyzing the reliability of electromechanical systems and at the stage of modernization of existing equipment. Therefore, this discipline will be useful primarily to those who plan to design electromechanical systems or their components in the future. What you can learn — analyze factors that affect the reliability of electromechanical systems; — evaluate the reliability of the main electromechanical systems; — evaluate the reliability of electromechanical systems. Be able to evaluate the main indicators of reliability and know ways to increase it when designing and modernizing electromechanical systems. Syllabus, lecture notes, practical training manual, distance course.	The scope of the discipline	4 ECTS credits
Independent work Language of teaching Requirements for starting the study of the discipline What will be studied The discipline studies methods of analyzing the reliability of electromechanical systems and ways to increase it. For this, factors that affect the reliability of electromechanical systems and ways to increase it. For this, factors that affect the reliability of r	and the distribution of hours	classroom classes: lectures – 36 hours, practical classes – 18 hours
Language of teaching Ukrainian	of classroom and	independent work - 66 hours
Knowledge of electric drive control, electric drive, automated electric drive, electric machines, theoretical foundations of electrical engineering, automation systems What will be studied	independent work	
the study of the disciplinemachines, theoretical foundations of electrical engineering, automation systemsWhat will be studiedThe discipline studies methods of analyzing the reliability of electromechanical systems and ways to increase it. For this, factors that affect the reliability of electromechanical systems and mathematical criteria for reliability assessment are studied. The basics of reliability calculations of electromechanical systems with various types of redundancy are also considered. Issues of reliability of renewable electromechanical systems are consideredWhy is it interesting/should be studied?The issue of analyzing the reliability of electromechanical systems and ways to increase it are relevant both when developing new electromechanical systems and at the stage of modernization of existing equipment. Therefore, this discipline will be useful primarily to those who plan to design electromechanical systems or their components in the future.What you can learn— analyze factors that affect the reliability of electromechanical systems; — evaluate the reliability of the main electromechanical systems; — evaluate the reliability of electromechanical systems with loaded, unloaded and sliding redundancy; — evaluate the reliability of renewable electromechanical systems.How to use acquired knowledge and skillsBe able to evaluate the main indicators of reliability and know ways to increase it when designing and modernizing electromechanical systemsInformation support of the disciplineSyllabus, lecture notes, practical training manual, distance course.	Language of teaching	Ukrainian
The discipline studies methods of analyzing the reliability of electromechanical systems and ways to increase it. For this, factors that affect the reliability of electromechanical systems and mathematical criteria for reliability assessment are studied. The basics of reliability calculations of electromechanical systems with various types of redundancy are also considered. Issues of reliability of renewable electromechanical systems are considered Why is it interesting/should be studied? The issue of analyzing the reliability of electromechanical systems and ways to increase it are relevant both when developing new electromechanical systems and at the stage of modernization of existing equipment. Therefore, this discipline will be useful primarily to those who plan to design electromechanical systems or their components in the future. What you can learn - analyze factors that affect the reliability of electromechanical systems; - evaluate the reliability of the main electromechanical system; - evaluate the reliability of electromechanical systems with loaded, unloaded and sliding redundancy; - evaluate the reliability of renewable electromechanical systems. Be able to evaluate the main indicators of reliability and know ways to increase it when designing and modernizing electromechanical systems Syllabus, lecture notes, practical training manual, distance course.	Requirements for starting	Knowledge of electric drive control, electric drive, automated electric drive, electric
and ways to increase it. For this, factors that affect the reliability of electromechanical systems and mathematical criteria for reliability assessment are studied. The basics of reliability calculations of electromechanical systems with various types of redundancy are also considered. Issues of reliability of renewable electromechanical systems are considered Why is it interesting/should be studied? The issue of analyzing the reliability of electromechanical systems and ways to increase it are relevant both when developing new electromechanical systems and at the stage of modernization of existing equipment. Therefore, this discipline will be useful primarily to those who plan to design electromechanical systems or their components in the future. What you can learn — analyze factors that affect the reliability of electromechanical systems; — evaluate the reliability of the main electromechanical systems; — evaluate the reliability of electromechanical systems with loaded, unloaded and sliding redundancy; — evaluate the reliability of renewable electromechanical systems. How to use acquired knowledge and skills Be able to evaluate the main indicators of reliability and know ways to increase it when designing and modernizing electromechanical systems Syllabus, lecture notes, practical training manual, distance course.	the study of the discipline	machines, theoretical foundations of electrical engineering, automation systems
systems and mathematical criteria for reliability assessment are studied. The basics of reliability calculations of electromechanical systems with various types of redundancy are also considered. Issues of reliability of renewable electromechanical systems are considered Why is it interesting/should be studied? The issue of analyzing the reliability of electromechanical systems and ways to increase it are relevant both when developing new electromechanical systems and at the stage of modernization of existing equipment. Therefore, this discipline will be useful primarily to those who plan to design electromechanical systems or their components in the future. What you can learn - analyze factors that affect the reliability of electromechanical systems; - evaluate the reliability of the main electromechanical system; - evaluate the reliability of electromechanical systems with loaded, unloaded and sliding redundancy; - evaluate the reliability of renewable electromechanical systems. Be able to evaluate the main indicators of reliability and know ways to increase it when designing and modernizing electromechanical systems Syllabus, lecture notes, practical training manual, distance course.	What will be studied	The discipline studies methods of analyzing the reliability of electromechanical systems
reliability calculations of electromechanical systems with various types of redundancy are also considered. Issues of reliability of renewable electromechanical systems are considered Why is it interesting/should be studied? The issue of analyzing the reliability of electromechanical systems and ways to increase it are relevant both when developing new electromechanical systems and at the stage of modernization of existing equipment. Therefore, this discipline will be useful primarily to those who plan to design electromechanical systems or their components in the future. What you can learn - analyze factors that affect the reliability of electromechanical systems; - evaluate the reliability of the main electromechanical system; - evaluate the reliability of electromechanical systems with loaded, unloaded and sliding redundancy; - evaluate the reliability of renewable electromechanical systems. Be able to evaluate the main indicators of reliability and know ways to increase it when designing and modernizing electromechanical systems Information support of the discipline Syllabus, lecture notes, practical training manual, distance course.		and ways to increase it. For this, factors that affect the reliability of electromechanical
are also considered. Issues of reliability of renewable electromechanical systems are considered Why is it interesting/should be studied? The issue of analyzing the reliability of electromechanical systems and ways to increase it are relevant both when developing new electromechanical systems and at the stage of modernization of existing equipment. Therefore, this discipline will be useful primarily to those who plan to design electromechanical systems or their components in the future. What you can learn - analyze factors that affect the reliability of electromechanical systems; - evaluate the reliability of the main electromechanical system; - evaluate the reliability of electromechanical systems with loaded, unloaded and sliding redundancy; - evaluate the reliability of renewable electromechanical systems. Be able to evaluate the main indicators of reliability and know ways to increase it when designing and modernizing electromechanical systems Syllabus, lecture notes, practical training manual, distance course.		systems and mathematical criteria for reliability assessment are studied. The basics of
Considered		reliability calculations of electromechanical systems with various types of redundancy
it are relevant both when developing new electromechanical systems and at the stage of modernization of existing equipment. Therefore, this discipline will be useful primarily to those who plan to design electromechanical systems or their components in the future. What you can learn - analyze factors that affect the reliability of electromechanical systems; - evaluate the reliability of the main electromechanical system; - evaluate the reliability of electromechanical systems with loaded, unloaded and sliding redundancy; - evaluate the reliability of renewable electromechanical systems. How to use acquired knowledge and skills Be able to evaluate the main indicators of reliability and know ways to increase it when designing and modernizing electromechanical systems Syllabus, lecture notes, practical training manual, distance course.		
it are relevant both when developing new electromechanical systems and at the stage of modernization of existing equipment. Therefore, this discipline will be useful primarily to those who plan to design electromechanical systems or their components in the future. What you can learn - analyze factors that affect the reliability of electromechanical systems; - evaluate the reliability of the main electromechanical system; - evaluate the reliability of electromechanical systems with loaded, unloaded and sliding redundancy; - evaluate the reliability of renewable electromechanical systems. How to use acquired knowledge and skills Be able to evaluate the main indicators of reliability and know ways to increase it when designing and modernizing electromechanical systems Syllabus, lecture notes, practical training manual, distance course.	Why is it interesting/should	The issue of analyzing the reliability of electromechanical systems and ways to increase
primarily to those who plan to design electromechanical systems or their components in the future. - analyze factors that affect the reliability of electromechanical systems; - evaluate the reliability of the main electromechanical system; - evaluate the reliability of electromechanical systems with loaded, unloaded and sliding redundancy; - evaluate the reliability of renewable electromechanical systems. - Be able to evaluate the main indicators of reliability and know ways to increase it when designing and modernizing electromechanical systems - Syllabus, lecture notes, practical training manual, distance course.	be studied?	
the future. - analyze factors that affect the reliability of electromechanical systems; - evaluate the reliability of the main electromechanical system; - evaluate the reliability of electromechanical systems with loaded, unloaded and sliding redundancy; - evaluate the reliability of renewable electromechanical systems. How to use acquired knowledge and skills Be able to evaluate the main indicators of reliability and know ways to increase it when designing and modernizing electromechanical systems Syllabus, lecture notes, practical training manual, distance course.		of modernization of existing equipment. Therefore, this discipline will be useful
What you can learn - analyze factors that affect the reliability of electromechanical systems; - evaluate the reliability of the main electromechanical system; - evaluate the reliability of electromechanical systems with loaded, unloaded and sliding redundancy; - evaluate the reliability of renewable electromechanical systems. Be able to evaluate the main indicators of reliability and know ways to increase it when designing and modernizing electromechanical systems Information support of the discipline Syllabus, lecture notes, practical training manual, distance course.		primarily to those who plan to design electromechanical systems or their components in
 evaluate the reliability of the main electromechanical system; evaluate the reliability of electromechanical systems with loaded, unloaded and sliding redundancy; evaluate the reliability of renewable electromechanical systems. How to use acquired knowledge and skills Be able to evaluate the main indicators of reliability and know ways to increase it when designing and modernizing electromechanical systems Syllabus, lecture notes, practical training manual, distance course.		the future.
- evaluate the reliability of electromechanical systems with loaded, unloaded and sliding redundancy; - evaluate the reliability of renewable electromechanical systems. How to use acquired knowledge and skills Be able to evaluate the main indicators of reliability and know ways to increase it when designing and modernizing electromechanical systems Syllabus, lecture notes, practical training manual, distance course.	What you can learn	 analyze factors that affect the reliability of electromechanical systems;
- evaluate the reliability of electromechanical systems with loaded, unloaded and sliding redundancy; - evaluate the reliability of renewable electromechanical systems. How to use acquired knowledge and skills Be able to evaluate the main indicators of reliability and know ways to increase it when designing and modernizing electromechanical systems Syllabus, lecture notes, practical training manual, distance course.	**	evaluate the reliability of the main electromechanical system;
sliding redundancy; evaluate the reliability of renewable electromechanical systems. How to use acquired knowledge and skills Be able to evaluate the main indicators of reliability and know ways to increase it when designing and modernizing electromechanical systems Syllabus, lecture notes, practical training manual, distance course.		
- evaluate the reliability of renewable electromechanical systems. How to use acquired knowledge and skills Information support of the discipline - evaluate the reliability of renewable electromechanical systems. Be able to evaluate the main indicators of reliability and know ways to increase it when designing and modernizing electromechanical systems Syllabus, lecture notes, practical training manual, distance course.		
How to use acquired knowledge and skills Be able to evaluate the main indicators of reliability and know ways to increase it when designing and modernizing electromechanical systems Syllabus, lecture notes, practical training manual, distance course.		
knowledge and skills designing and modernizing electromechanical systems Information support of the discipline Syllabus, lecture notes, practical training manual, distance course.	How to use acquired	
Information support of the discipline Syllabus, lecture notes, practical training manual, distance course.		A SECURE STATE OF SECURE SECURITIES AND SECURITIES
discipline		
		Syllabus, lecture notes, practical training manual, distance course.
Samastan santral Took	discipline	
Semester control 18St	Semester control	Test