

ANNOTATION

Automatic Adjustment And Control Of Ship Power Plants		ECTS credits: 4	
60 h, mandatory			
Department Ship Power Systems	Lectures: Assoc.Prof. Ph.D. Milen Vasilev Exercises: Assoc.Prof. Ph.D. Milen Vasilev		
Learning Objectives			
1. The students SHOULD KNOW:			
<ul style="list-style-type: none"> • Working principles of Instrumentation systems. • Control Systems and Actuators. • Structure of Governors and ME remote control systems. • Main methods for adjustment and troubleshooting of automatic control systems. 			
2. The students SHOULD BE ABLE TO:			
<ul style="list-style-type: none"> • Serve on board ships. 			
Assessment System:			
A practical assignment, a test and a final grade			
Contents:			
No.	Subject Area (modules)	Lectures	Exercises
1	Introduction. Ship Power Plants As a Subject To Automation	2	
2	Measurements of temperature, pressure, level, flow, velocity, etc.	10	2
3	Transmission of signals. Control elements and feedback	4	
4	Principles of pneumatic control	2	1
5	Automatic engine speed control systems	8	4
6	Automatic control of fluid temperature in ICE.	4	
7	Remote control system of ship ICE.	4	4
8	Ship Systems and machinery automation.	6	2
9	Complex of Ship Power Plant	5	2
	Total:	45	15