

FEDERAL STATE BUDGET  
HIGHER EDUCATION INSTITUTION  
“KUBAN STATE MEDICAL UNIVERSITY”  
MINISTRY OF HEALTH OF THE RUSSIAN FEDERATION  
DEPARTMENT OF PHILOSOPHY, PSYCHOLOGY AND PEDAGOGY

THEMATIC PLAN STUDYING THE COURSE OF LEAN MANUFACTURING  
PHILOSOPHY, PRINCIPLES, AND TOOLS  
FOR THE 2nd YEAR STUDENTS OF THE MEDICAL FACULTY

№	Topic	lectures	seminars
		hours	hours
	<b>SECTION 1. Fundamentals of lean manufacturing.</b>	<b>2</b>	<b>2</b>
1.	Topic 1.1 Lean manufacturing: history of formation and development, essence, principles.	2	2
2.	Topic 1.2 Lean manufacturing as the basis of the project activity of a medical organization.		
	<b>SECTION 2. Mapping the value stream and analyzing problems using lean manufacturing tools and techniques.</b>	<b>2</b>	<b>3</b>
3.	Topic 2.1 The Value stream map as the main Lean manufacturing tool.	2	3
4.	Topic 2.2 Methods for analyzing problems and causes of losses used in lean manufacturing.		
	<b>SECTION 3. The main tools of lean manufacturing.</b>	<b>4</b>	<b>12</b>
5.	Topic 3.1 «5C» – an effective system for organizing the working space	2	3
6.	Topic 3.2. Organization of standardized work in a medical organization.		
7.	Topic 3.3 Kanban as an effective supply and inventory management system for a medical organization.	2	3
8.	Topic 3.4 SMED and TPM are effective lean manufacturing tools.		
9.	Topic 3.5 Visualization as a visual management tool in lean manufacturing.		
	<b>Total:</b>	<b>8</b>	<b>17</b>

The Head of the Department of Philosophy,  
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