# 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 |
|  | **SECTION 1. Fundamentals of lean manufacturing.** | **2** | **2** |
| **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. |
|  | **SECTION 2. Mapping the value stream and analyzing problems using lean manufacturing tools and techniques.** | **2** | **3** |
| **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. |
|  | **SECTION 3. The main tools of lean manufacturing.** | **4** | **12** |
| **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. | 3 |
| **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. | 3 |
| **9.** | Topic 3.5 Visualization as a visual management tool in lean manufacturing. |
|  | **Total:** | 8 | 17 |

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