**Name of the scientific laboratory: Laboratory of Mechanical Testing of Materials**

1. **Objectives of the scientific laboratory: Determination of the mechanical properties of metals.**
2. **List of laboratory equipment:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **№** | **Equipment Name** | **Brief Equipment Description** | **Tasks Performed on the Equipment** | **Year of Manufacture** | **Certification (yes/no)** | **Verification Date** | **Equipment Notes** |
|  | Universal Testing Machine | **Maximum ultimate load: 200 kN**  **Load measurement range: 4 kN to 200 kN**  **Allowable error limit for load measurement: ±5% in the range of 4 kN to 200 kN** | Conducting tensile and compressive tests on samples | **2015** | **no** | **until 18.04.2019** | **no** |
|  | Machine for Measuring the Fracture Energy of Samples | **Angle of pendulum lift: 150°**  **Pendulum velocity at impact: 5.2 m/s**  **Impact energy: 300 J, 150 J**  **Pendulum moment: 160.7695 Nm, 80.3848 Nm** | Measuring the ultimate fracture energy of samples | **2015** | **no** | **until 11.12.2016** | **no** |
|  | Hardness Tester | **Hardness measurement range:**  **Scale A: 20 to 88 HRA**  **Scale B: 20 to 100 HRB**  **Scale C: 20 to 70 HRC** | Determining hardness | **2013** | **no** | **Until 01.08.2015** | **no** |

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