

## COURSE DESCRIPTION SYLLABUS

1. Name of course: **Introduction to Engineering**
2. Notation (code) in curricula: ДИСЦ.В.М13
3. Field (primary curriculum): 12.03.04 Biotechnical Systems and Technologies
4. Training profile: Biotechnical and medical devices and systems
5. Qualification (degree): bachelor
6. Supporting subdivision: Department of Industrial and Medical Electronics, Institute of Non-Destructive Testing, TPU
7. Lecturer: Associate Professor Fedor A. Gubarev, tel. +7(913) 880-8005, *E-mail:* [gubarevfa@tpu.ru](mailto:gubarevfa@tpu.ru)
8. Learning outcomes:

№	Result
CLO 10 (P10)	Demonstrate the personal responsibility, commitment and willingness to follow professional ethics and rules of conducting the comprehensive engineering activities.
CLO 11 (PД11)	Demonstrate the knowledge of legal social, environmental and cultural aspects of complex engineering activity, competence in matters of health and safety protection.
CLO 12 (PД12)	Demonstrate the ability to self-learning, and continuously improve their qualifications during the whole period of professional activity.

9. The course outline:

Section 1. General Characteristics of direction 12.03.04 "Biotechnical Systems and Technologies". History of direction 12.03.04 "Biotechnical Systems and Technologies".

Section 2. Characteristics of profiles of the program 12.03.04 - "Biotechnical Systems and Technologies". The main directions of educational and scientific activities of department of industrial and medical electronics, responsible for the implementation of the profile, the basic concepts and definitions in the field of professional activity profile, characteristics of educational research and creative work of students in the profile.

10. Year: 1<sup>st</sup>, semester: 1<sup>st</sup>, number of credits: 1<sup>st</sup>.
11. Prerequisites: None
12. Corequisites: None
13. Type of attestation: term test

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