«APPROVED» Head of the Department

(First name, last name) «____»____201__г.

ABSTRACT OF THE MODULE (COURSE)

1. The module name (course name) – Theoretical mechanics 2

2. Identification code in syllabus - «ДИСЦ.Б.М6»

3. Educational program track - <u>15.03.01</u>. "Mechanical engineering" 4. Educational program specialization - "Technology, equipment and automation of machinery production"

5. Course degree – <u>Bachelor</u>

6. Research unit – Mechanical engineering department

7. Lecturer – V. S. Lyukshin, E-mail lwsfoa@rambler.ru

8. Outcomes of module (course) studying

As a result of completing a course of "Theoretical mechanics 2" students should:

Be aware of:

- Basic knowledge of Science and Mathematics fundamental for professional activity;
- Methods of casting and solving engineering problems.

Know how:

- To apply basic knowledge of Mathematics, Liberal arts and Economics into their professional activity consciously;
- To apply the obtained knowledge into casting and solving engineering problems using appropriate methods.

Be knowledgeable about:

- The scientific principles fundamental for professional activity;
- Methods of investigational study.

9. Curriculum content:

- Basic patterns of rigid body motion;
- Introduction to Dynamics. Particle dynamics;
- Mechanical system. General theorems of Dynamics;
- Analytical Dynamics.

10. Course 2 semester 4 number of credits 3

11. Prerequisite:

- "Mathematics"
- "Descriptive geometry. Engineering graphics."
- 12. Corequisite:
 - "Physics"
 - "Construction materials engineering".

13. Type of assessment (examination, credit) – a credit, a grading credit for the coursework

By V. S. Lyukshin