

### Annotation of discipline

<b>Name of the discipline</b>	<b>Outline geometry and technical mechanics</b>
<b>Lecturer</b>	<b>Lesia Bondarenko</b> Candidate of Veterinary Sciences, Associate Professor of the Department of Animal Hygiene and Basics of Sanitation
<b>Year of study, semester</b>	2 <sup>nd</sup> year, 1 <sup>st</sup> semester
<b>Faculties where the students are offered to study the discipline</b>	Bio-technological faculty
<b>List of competencies and learning outcomes provided by the discipline</b>	<p><i>According to the requirements of the educational-professional program "Food Technologies", applicants must acquire the ability to obtain the following competencies:</i></p> <p><b>2.</b> The ability to preserve and multiply moral, cultural, scientific values and achievements of society based on understanding the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, technology and technologies, to use various types and forms of motor activity for active recreation and leading a healthy lifestyle.</p> <p>The result of studies from discipline is acquisition by the students of such knowledge and abilities :</p> <ul style="list-style-type: none"> <li>- to Carry out control of technological parameters after the flowsheets of production and processing of products of stock-raising.</li> <li>- to Regulate the technical parameters of technological processes.</li> <li>- to Provide control, adjusting and management of executable works technical equipments.</li> <li>- Able to conduct the basic calculations of basic parameters of work of equipment.</li> <li>- to Know the basic indexes of work of machines and mechanisms.</li> <li>- to Apply international and national standards and practices in professional activity.</li> <li>- to Know the basic historical stages of development of subject</li> </ul>
<b>Discipline description</b>	
<b>Prerequisites needed for studying the discipline</b>	<p><b>Academic Integrity Policy:</b> Applicants' written work is expected to be their own original research or reasoning. The discovery of signs of academic dishonesty in the applicant's written work (writing off, lack of references to used sources, fabrication, falsification, deception) is grounds for its non-crediting by the teacher.</p> <p>The optional academic discipline "Student Research Work" is based on the knowledge of such disciplines as "Higher Mathematics" and "Physics" studied in previous courses</p>
<b>Students' limit in a</b>	55 students

<p><b>group</b></p> <p><b>Topics of in-class activity</b></p> <p><b>Language of teaching</b></p>	<p><b>Topics of lectures</b></p> <ol style="list-style-type: none"> <li>1. Descriptive geometry as an educational discipline</li> <li>2. The relative position of two planes, a straight line and a plane</li> <li>3. Curved lines. Curved surfaces</li> <li>4. Moment of force relative to point and axis. Addition of parallel forces. Couple of forces, theorems about couples.</li> <li>5. Translational and rotational movements of a rigid body.</li> <li>6. Point dynamics.</li> <li>7. Stretching and compression</li> </ol> <p><b>Topics of practical classes</b></p> <ol style="list-style-type: none"> <li>1. Dimensions. Scales</li> <li>2. Geometric constructions</li> <li>3. Image</li> <li>4. Drawing details, sketches</li> <li>5. Assembly drawings</li> <li>6. Reading assembly drawings</li> <li>7. General laws of equilibrium of material points and solid bodies</li> <li>8. Determination of reactions of different types of connections</li> <li>9. Determination of distance, speed, acceleration during movement of a point along a given trajectory</li> <li>10. Basics of designing and construction methods of mechanisms and machines, stages of development</li> <li>11. Requirements for machine parts, performance criteria and factors affecting them</li> <li>12. Structural and kinematic analysis of machine mechanisms</li> <li>13. Study of the existing system of admissions and landings</li> <li>14. Interchangeability, standardization, application of flow assembly and automated control</li> </ol> <p>Ukrainian, english</p>
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