

Summary of discipline Theory and Design of Measuring Instruments The role and importance of discipline "instrumentation design" based on the problems that are posed in pidhotov-tsi students as designers and constructors devices toch-noyi mechanics. This primarily students obtain knowledge in this area, acquiring skills and designing ability to use them in practice.

Feature of Precision Mechanics is that they are full of electrical, electronic, pneumatic and hydraulic pe-retvoryuvachamy which knowledge should be mandatory for students and thorough. Great importance is the training of students as technicians for the production of parts and components devices.

This discipline is a general engineering discipline in struktur-no-logic specialty. It is based on such disciplines os-novnyh (list they can and larger):
1. Theoretical mechanics - basic theory of oscillations; bringing the forces and moments.

2. Applied mechanics - the theory of elasticity; momen-tiv definition of inertia and bring them; Theory of transmissions.

3. Automatic Control Theory - typical management; pereda-tochni function; tracking systems; stability criteria.

4. Details of instruments and mechanisms - elastic elements; pereda-tochni mechanisms; shock; dampers.

5. turning device equipment - electric generators and parametrych-ni; pneumatic, hydraulic.

6. Theory of accuracy, reliability and Metrology - the methods of calculation accuracy; Synthesis reliability; metrological parameters; reference base.

7. Basic theory of instrumentation - general characteristics and methods of calculation errors of measuring instruments.