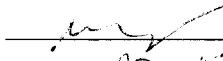


Approve

Dean of the faculty PhMaIT


N.A. Ispulov
27.10 2018 y.

THEMES

of the diploma works in the specialty 5B060400 – Physics,
department of Physics and Instrumentation

- 1 Development of simulative programs in optics
- 2 Deep warmth of the earth and its using
- 3 Modeling of static fields of charges and electric currents
- 4 Capillary actions in nature
- 5 Modeling of statistical systems
- 6 Modeling of quantum systems
- 7 Matrices of coefficients of high symmetry piezo-magnetic mediums

THEMES

of the diploma works in the specialty 5B071600 – Instrumentation,
department of Physics and Instrumentation

- 1 Development of ultrasonic distance meter based on Arduino uno R3 Board
- 2 Investigation of the parameters of magnetostrictive and piezoelectric transducers in technological ultrasonic installations
- 3 Research of the possibility of wireless transmission of the vibration signal
- 4 Application of contemporary microcontrollers in measurement of electric quantities
- 5 Measuring device of weak magnetization of small samples of magnetic materials with specific properties
- 6 Analysis of methods and technologies of ultrasonic inspection of welds
- 7 Processing of biomedical signals by means of MatLab
- 8 Analysis of structural of properties robot manipulator
- 9 Development of an automated climate control system in greenhouses
- 10 Modern control devices and measurements of speed
- 11 Analysis of non-linear devices using the application program.
- 12 Identification of underwater bodies material
- 13 Methods and means of controlling the mechanical properties of ferromagnetic products
- 14 Applying the Wigand effect in measurement technology
- 15 Development of a control and monitoring system for residential microclimate parameters

- 16 Simulation of frequency and temporal characteristics of oscillatory circuits using an application program
- 17 Methods of assessment of reliability of sensors used on thermal power plants of RK
- 18 Study of possibilities of using microcontroller in the design of robotics
- 19 Research of kinematics and dynamics of movement of welding robots

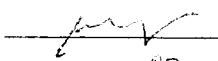
Head of the Department of Phal



T. S. Dossanov

Approve

Dean of the faculty PhMaIT


N.A. Ispulov
27.10 2018 y.

THEMES

Of the master's dissertations in the specialty 5B060400 – Physics,
department of Physics and Instrumentation

- 1 The research of surface waves by the matriciant method.
- 2 The development of a system of criterial estimation for the study physics in the 8th grade.

Head of the Department of PhAI



T. S. Dossanov