RUSSIAN-ARMENIAN UNIVERSITY

Institute of Engineering and Physics

Department: General Physics and Quantum Nanostructures

SYLLABUS

Specialization «Electronics and Nanoelectronics»

Training program: Master's degree

Form of study: Full-time

Duration of study: 2 years.

Educational process plan Specialization «Electronics and Nanoelectronics» 1 course 2 course 1 semester 2 semester 3 semester 4 semester Amount of hours mount of hour Amount of hours Amount of hours Total hours Satisfactory Total classroom practical/se minar Laboratory Subject name and types of student academic work Credits hours 14 15 I. HUMANITARIAN EDUCATIONAL BLOCK Professional English 1,2 Academic Writing II. GENERAL PROFESSIONAL COURSE CURRICULUM Integrated Photonic Devices and Circuits Numerical Methods in Physics Coursework Project on Numerical Methods Introduction to Quantum Communication III. CURRICULUM OF SPECIALIZATION COURSES Ouantum Nanostructures Optical Properties of Quantum Dots Laboratories in Optics Research 32 152 Modeling of Nanostructures Semiconductor Nanoelectronics IV. RESEARCH STRUCTURE Research Project 1 13 Research Project 2 14 Research Project 3 15 Finalization of Research Project 15 Defense of master's thesis TOTAL Credits