National Chiayi University Polytechnic Institute of Electronic Physics Bachelor degree course framework map

© Course Description Department of Electronic Physics Foundation Program of Electro General Education Program of Optoelectronics Program of Semiconductor Graduation Credits physics (28 credits) Techniques / ******Practices (30 credits) and Electronic Techniques / At least 128 credits, contain: General Physics (I) (II) [6] (21 credits) ****Practices** 1. School General Studies 30 credits **General Physics Experiment** (21 credits) **Basic literacy** Mathematics for Fundamental 2. College Common Course 06 Required courses 14 (I) (II) [2]Physics [3] credits Mathematics for Fundamental General Chemistry (I) (II) [6] Circuit Analysis (II)[3] credits 3. Department of basic courses 28 Physics [3] General Chemistry Applications of Computer in credits Chinese[6] Digital Logic [3] 4 Department of core courses 28 Physics[3] English[6] Experiment (I) (II) [2] Circuit Analysis (II) [3] credits Introduction to Electrophysics [2] Applications of Computer in Linear Algebra and Vector Programming[2] 5. Professional elective courses 21 Mechanics (II) [3] Physics[3] Physical Education[0] Analysis [3] credits Magneto-optics [2] Introduction to Electrophysics [2] free elective (this department or Engineering Mathematics (I) Service Learning[0] **Problem-Based Learning Topics** Mechanics (II) [3] external courses can be) 15 [3] (I) -Instrumentation Problem-Based Learning Topics (1) credits Engineering [3] Mechanics (I) [3] -Instrumentation Engineering [3] The company is located in: **Boya** literacy Optics (II) [3] Electronics (II) [3] (i) Note: Electromagnetism (I) [3] **Elective Courses** Physics of Semiconductor Physics of Semiconductor Devices 1. Students must complete 21 Core Program of Electro Devices (I) (II) [3] 16 credits (I) (II) [3] required credits with either one Thermal and Statistical Physics physics (28 credits) Thermal and Statistical Physics (II) of the programs in the Core (II) [3] Program: Program of There are five major fields: [3] Circuit Analysis(I) [3] Introduction to Computational Optoelectronics Techniques / Introduction to Computational Citizen Literacy and Social Experimental Physics (I) (II) Physics [3] Practices; Program of Physics [3] Care, History and Culture Experimental Physics (III) [1] Semiconductor and Electronic Experimental Physics (III) [1] [2] Conservation, Life Special Research Techniques / Practices. Electronics Experiment (II) [1] Exploration and Engineering Mathematics (II) 2. International students will Topics(II)**(III)**(IV) [3] Special Research Environmental Care, Self-[3] receive international exchange **Professional Off-campus Topics(II)**(III)**(IV) [3] development and scholarships for overseas Electronics (I) [3] Practicum[9] Introduction to Quantum Communication, Material study, overseas experience, Introduction to Optoelectronic Electromagnetism (II) [3] Mechanics [3] Science and Life off-campus internship with Technology [3] Application, etc. Students First-Principle Computations [3] Optics (I) [3] overseas students, exchange **Optical Electronics** [3] Optoelectronic Semiconductor should take at least one of Quantum Physics (I) (II) [6] students and double degree Optoelectronic Semiconductor Device [3] the three fields, while students if they are enrolled in Thermal and Statistical Device [3] Undergraduate Seminar (I) (II) [2] others are free to choose as this course, have a master's Introduction to Solid State Physics (I) [3] Introduction to Solid State Physics electives. degree and have excellent Physics(I) (II) [3] Electronics Experiment (I) [1] (I) (II) [3] academic records. Laser Optics [3] Introduction to Semiconductor 3. Students who are willing to Special Research Topics (I) [1]/ Optoelectronic Experiment [1] Manufacturing Technology [3] take education courses can Common Curriculum Undergraduate Seminar (I) (II) [2] make plans in freshman or Other Elective Courses Solar Cell [3] Modern Optics [3] sophomore year. For details. (6 credits) *Seminar (IV) [1] (15 credits) Optoelectronic Measurement and please refer to the website of **Professional Off-campus the teacher training center or Analysis [3] Either Electro physics or Practicum[9] contact the organizer of the Solar Cell [3] Calculs(I)(II) [6] teacher training center by *Seminar (IV) [1] other electives phone.