

**Xiamen University Doctoral Program in Electronic Science and Technology
at College of Electronic Science and Technology**

1. Name of Programs:

Doctoral Program in Electronic Science and Technology

2. Degree awarded:

Doctor of Engineering

3. Duration:

4 years

4. Program Objective:

To foster the high-level talented person, who has substantial basic theory and professional knowledge about electronic science and has independent working ability of discovering problems, analyzing problems and solving problems. They can work on basic theoretical research about electronic science theory leading field and relating inter-discipline, applied research about control engineering, and realize the technology. Also, they are able to work in high school, scientific researching department, high-tech department and large-scale enterprise.

5. Academic Courses (Compulsory or Optional):

The Rudiments of Chinese Language, Selected Issues on China, Advanced Technology in Electronic Science, Theory and Application of Artificial Intelligence, Semiconductor Optoelectronics, Theory and Technology of Optical Waveguide, Principles of Laser, Theory and Technology of Optical Fiber, Circuit and Layout Design of Analog-Digital Mixed IC, Characterization of Semiconductor Materials and Devices, Principles and Applications of Optoelectronic Devices, Advanced Theory and Technology of Optical Fiber Sensors, Progress on Optoelectronics, Progress of solid-state lasers and applications, The Materials and Technology of Lasers, Theory of Microelectronic System Integration and Design Methods, Modern Theory of Signal reconstruction and Inversion, Topics on Nitride Semiconductor Materials and Devices, Advance CMOS analog circuit design, Embedded computer system: HAS architecture and hardware-software co-design.

Note: These courses are subject to changes without prior notice.

6. English Proficiency Requirement:

Applicants should score 80 or above in TOEFL, or alternatively, score 6.0 or above in IELTS. In case that one cannot provide either, other internationally recognized and equivalent certificate may also be sufficient. Native English speakers are exempted from this requirement.

7. Contact information

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The contact information of doctoral supervisors in English-medium doctoral programs is available at <http://admissions.xmu.edu.cn/0e/d7/c16884a331479/page.htm> .