

**Xiamen University Doctoral Program in Mechatronic Engineering  
at School of Aerospace Engineering**

**1. Name of Programs:**

Doctoral Program in Mechatronic Engineering

**2. Degree awarded:**

Doctor of Engineering

**3. Duration:**

4 years

**4. Program Objective:**

This program aims to cultivate high-quality, innovative, and professional talents (1) having a good grasp of the basic theories and specialized knowledge of Mechatronic Engineering; and (2) being eligible for doing scientific research, teaching, managing, and undertaking technical tasks.

PhDs are expected to: (1) grasp the basic theories and specialized knowledge systematically and proudly; (2) be of the ability to conduct scientific researches independently and creatively; (3) be of the ability to see things from an international perspective and engage in international academic exchanges fluently.

**5. Academic Courses (Compulsory or Optional):**

Selected Issues on China, Rudiments of Chinese Language, Dialectics of Nature, Numerical Analysis, Modern Control Theory, Frontiers of Mechanical Engineering, Literature Retrieval and English Writing for Science and Technology, Matrix Theory, Mathematical Statistics, Experimental Design and Data Analysis, Nonlinear Analysis, Intelligent Information Processing, Intelligent Control Theory, Mechanical Vibration Theory, Computational Fluid Dynamics and Applications, Experiments of Computer Control System, Modal Analysis and System Identification, Modern Manufactory Technology, Numerical Control Technology, High Speed Cutting Technology and Application, Differential Geometry and Complex Surface Modeling, Manufacturing Systems Engineering, Digital Design and Manufacture, Design and Manufacture of High Precision Optics, Robotics, Finite Element Analysis, Modern Design Methodology, Optimization of Mechanical Design, Mechanism Analysis and Synthesis, Computational Geometry, Theory and Analysis of Mechanical Reliability, Electro-Hydraulic Control Technology and Its Application, Design and Technology of Micro-Electromechanical System, Detection and Analysis of Micro-Nano Technology, Micro Fluid and Its Application, Condition Monitoring and Fault Detection, Vehicle Dynamics, Introduction of Vehicle and Its Power System

**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**

Mr. CAI Pengcheng

Tel: +86-(0)592-2182031

Email: [pccai@xmu.edu.cn](mailto:pccai@xmu.edu.cn)

Web: <http://aerospace.xmu.edu.cn/xw/Index.aspx>

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