

. Objective and Courses

1、Objective

The PhD degree recipients should master the fundamental theories in their discipline, and deeply understand its development, trends and state-of-the-art. They should have the ability to be engaged in scientific research independently, and obtain creative results in their discipline. They should be capable of reading English documents, know how to write a paper and be able to communicate internationally.

2、Research areas

Mechanical engineering, power engineering & engineering thermo-physics, nuclear science and engineering.

3、Credits and duration Time

(1) successive master & PhD student

Duration time is 5 years, in which 2 years for master period and 3 years for PhD period. The total credits are 46.

Master period: Students are expected to earn no fewer than 30 classroom-based credits with a minimum of 19 foundation course credits. The course study should be finished in the first year.

PhD period: Students are expected to earn no fewer than 16 classroom-based credits.

(2) admission by application.

Students are expected to earn no fewer than 16 classroom-based credits.

4、course selection requirements

(1) successive master & PhD student

Category	Course code	Course title	Credits	Offered semester	Notes	
Public courses for master (6)	G090512	Introduction to Dialectic of Nature	1	Spring/autumn	compulsory, 6 credits	
	G230001	The Theory of Socialism with Chinese Characteristics	2	Spring/autumn		
	G140501	English	3	Spring/autumn		
Math courses for master (≥6)	G071555	Matrix theory	3	autumn	At least 6 credits	
	G071503	calculation method	3	autumn		
	G071562	fundamental of mathematical statistics	2	autumn		
	G071507	Equations of Mathematical Physics	3	autumn		
	G071559	Optimization theory	3	autumn		
Public courses for PhD (≥6)	B140701	English	3	autumn	compulsory, 6 credits	
	B230001	Chinese Marxism and modern society	2	autumn		
	B080702	Technical paper writing	1	autumn		
Core courses (≥12)					No fewer than 12 credits. Please carefully choose the courses relating to qualifying exam.	A course taught in English should be taken in this list.
	500+ courses					
Professional courses (≥12)					No fewer than 8 credits	
	600+ courses				No fewer than 4 credits	
Academic seminar and frontier topics (4)	F020594	Frontier topics	2	Spring/autumn	compulsory, 4 credits	
	S02001	Academic seminar	2	Spring/autumn		