Power Engineering and Engineering Thermophysics

Program Code：0807

1. Program Duration: 4-8 years

2. Required Credits: No less than 14 credits.

3. Curriculum

Course Type	Course Code	Course Name	Credit Hours	Credits	Semesters	Notes
Required course	7000001	Survey of China	36	2	1	
	7000011	Primary Chinese Language	32	2	1	
	7000054	System Science and System Engineering	32	2	1	select 1 course
	7000024	Modern Applied Mathematics	48	3	1	
Optional course	7033101	Modern multiphase flow theory	48	3	1	
	7033102	Advances in Multiphase Reaction and Separation Equipment	32	2	1	
	7033103	Progress in Multiphase Flow and Separation Engineering	32	2	2	
	7141102	Metal Strength and Fracture	48	3	1	
	7033111	Recent Progress in Energy Chemical Engineering Equipment Technology	32	2	1	
	7033104	Advances in Fluid Machinery and Engineering	32	2	1	
	7033105	Dynamics of Higher Rotor	32	2	2	
	7033106	Integrity Theory of Pressure Equipment	32	2	2	

7033109	linear system	32	2	1	
7063101	Progress of new energy conversion technologies	32	2	1	
7063102	Modern Progress in Computational Heat Transfer	32	2	2	
7033107	Thermal energy and power engineering system theory	32	2	2	
7063105	Progress of power machinery and engineering	32	2	2	
7063103	Progress of Engineering Thermophysics	32	2	2	
7063104	Advanced Heat and Mass Transfer Theory	32	2	2	
7063106	Progress of refrigeration and cryogenic engineering	32	2	2	
6000013	Visual-Audio-Oral Practice of English For Postgraduates	16	1	2	select 2 courses
6000014	Academic English：Reading & Writing	16	1	2	
6000015	Contrastive Study of English And Chinese & Translation	16	1	2	
6000016	Cross-Cultural Communication	16	1	2	
6000019	English For Studying Abroad	16	1	2	
6000069	UPC Intensive Curricula	-	≤3	1-6	
5063103	Boiler principle	48	3	1	
5063104	Heating Engineering	32	2	1	
5063105	Heat exchanger principle and design	32	2	1	
5033101	Design of Pressure Vessel for Petrochemical Industry	32	2	1	
5033102	Fluid Machinery for Chemical Process	48	3	1	
5033103	Measurement and Control Technology of Chemical Equipment	40	2.5	1	

	5031006	Principles of Environmental Engineering	48	3	2	
	7064002	Foundations of Solid Mechanics	48	3	1	
	6063101	Advanced Engineering Thermodynamics	48	3	1	
	6033101	Advanced Mechanics of Fluid	48	3	1	
	6063102	Advanced Heat Transfer	48	3	2	
	6063103	Advanced Combustion Science	48	3	1	
Compulsory part	8030101	Literature Reading and Thesis Proposal	-	1	4	
	8030102	Overseas Academic Exchange and Study & Training	-	1	1-8	