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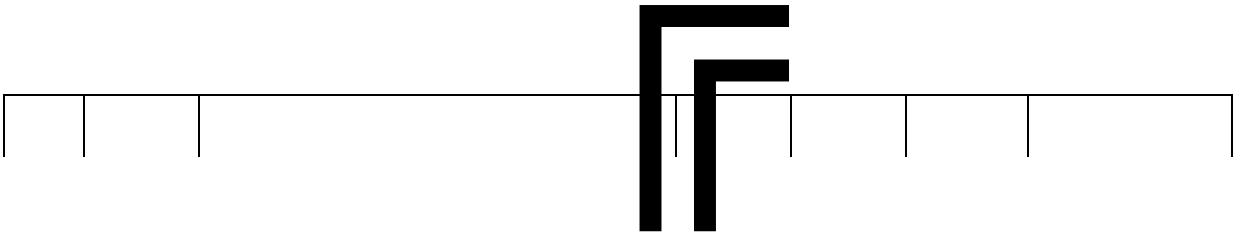
江苏科技大学攻读全日制学术型硕士研究生培养方案总则



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江苏科技大学攻读工程类硕士专业学位研究生培养方案总则

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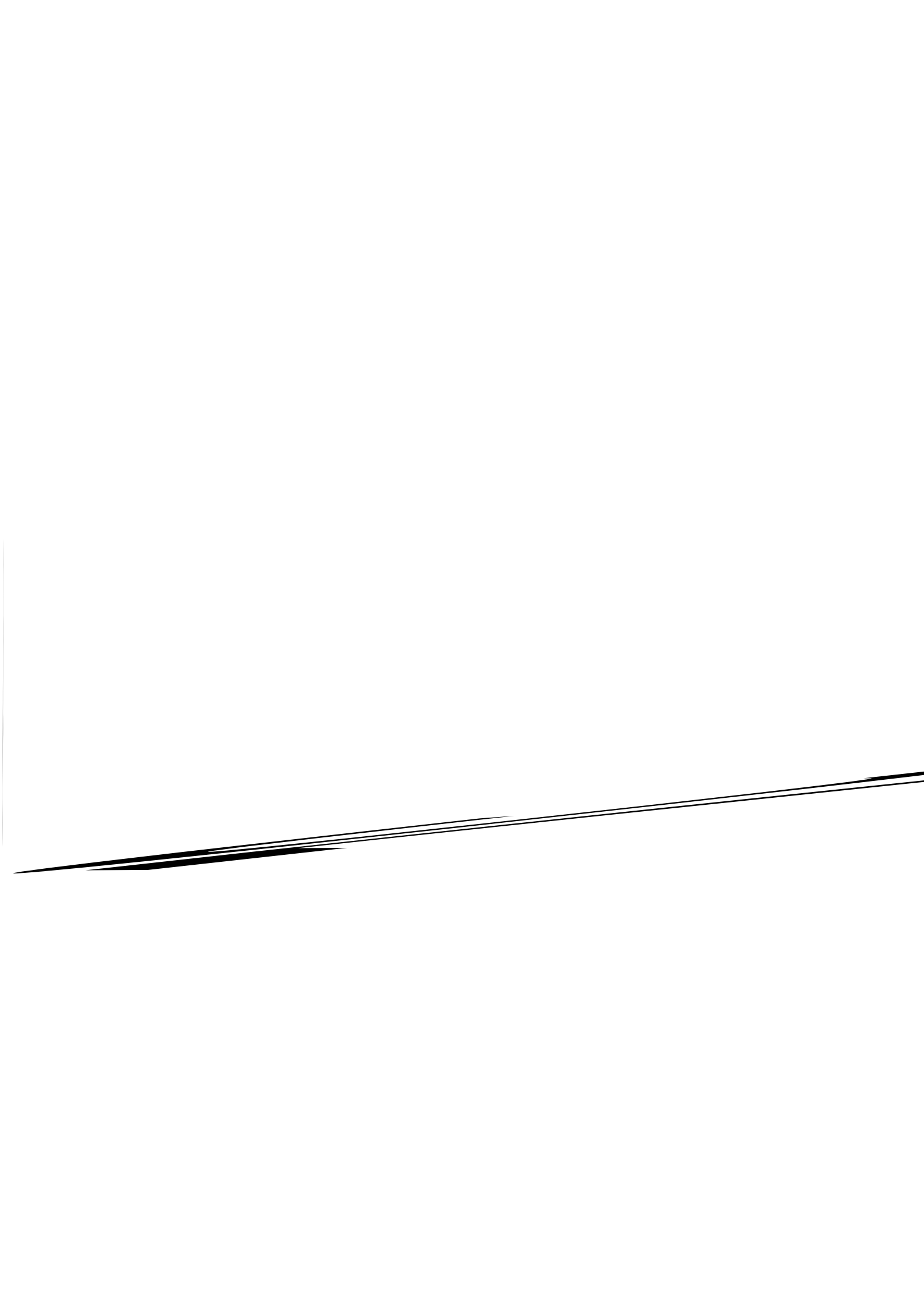

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Master Program for China-Russia Educational Cooperation
Major in Power Engineering

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several high level scientific research projects are implemented jointly with National Natural Science Foundation, Natural Science Foundation of Jiangsu Province and the Ministry of National Defense of the People's Republic of China. With enough research fundings, all conditions were created to recruit the students for the program.

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Ogarev Mordovia State University has the status of National Research University. One of the research priority areas is “Energy Saving and New Materials”. Several Master Degree Programmes in the field of power engineering are extensively implementing on the academic and research base of the University. The main part of academic degree programme “Heat-power engineering and heat technology” is the Chair of Heat-power systems. The most important scientific area of the Chair of Heat-power systems is ‘Energy Efficient Technologies in sources, transportation and storage systems of the heat power’ which develops rapidly and becomes more entrenched. The workers of the Chair annually receive 7 and more patents for inventions per year for new elaborations. The students are actively involved in inventive activity. ‘The Educational and Scientific Center “Mordovia Centre for Energy Saving” is working extensively on the basis of the Chair. It promotes innovative projects, as well as performs services directed on energy monitoring, project expertise, calculation of established standards of losses during transmission of the electric power and heat energy, fuel-consumption rate for thermal power station and boiler houses, development of advanced power supply schemes of settlements, etc. The center is equipped with modern research equipment, portable devices, software. There are educational and scientific laboratories ‘Impulse heat and water supply systems’ and

"Autonomous sources of power supply and electric transmission" which are working as a part of the center. A large amount of Master degree students takes part in various types of practical work on its basis. Teaching staff of the Chair regularly becomes participants and winners of the grants of Ministry of Education and Science of the Russian Federation, the Fund for the Promotion of Innovations and etc.

Training Object

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Students of this programme should grasp both solid theoretical foundation and systematic specialized knowledges in the sphere of power engineering, and obtain the ability on analyzing and solving problems independently. They should master both the basic technologies such as experiment tests, data analysis, computer programming, and develop the high innovative activity. In addition, the students should be familiar with international educational environment and have international communication skills. As a result, after graduation, they can be engaged in teaching, scientific research, design, production and management etc. in the field of power engineering under the international

	and equipment	technologies; Hazardous materials generation and control theories in internal combustion engine; New combustion system design; Low emissions engine technology
2	Vibration and noise control and fault diagnosis for power machinery	Low noise engine design technology; Vibration and noise control for marine main and auxiliary engines; Monitoring and fault diagnosis for marine power plant.
3	Strengthened heat and mass transfer and effective energy utilization technology	Mechanism of strengthened heat and mass transfer; New theories and methods of strengthened heat and mass transfer; Effective energy utilization in energy and power system.
4	Refrigeration, air conditioning and cryogenic engineering	Geothermal energy conversion and geothermal direct use; Cooling performance, air quality, thermal comfort and energy consumption for air conditioning system in new fuel ships.
5	New energy technology and application	Research on scientific and engineering application fields relating to the ship auxiliary new energy power system and marine wind energy applications

Teaching Language

English and Chinese

Period and Credit

1. Period: 1+1+0.5

The standard period lasts 2.5 years, which can be prolonged for another half a year according to the relevant provisions.In the first year, students will have courses in China. In the second year, the students will transfer to Russia to continue their study of the second

stage, carry on subject research and complete their Russian dissertation. In the last one half year the students will work on the Chinese dissertation preparation and complete defense in China.

2. Credit

The EU credits and total EU credits of educational programmes are established by the partner universities according to the state requirements of each party. 60 credits are required for the program students in China, among which not less than 24 credits for degree courses, not less than 17 credits for elective courses and not less than 19 credits for practical trainings. To get the master degrees from both JUST and OMSU, the students have also to meet the degree awarding requirements including scientific research of the both universities. The students should successfully complete educational programme in full and pass State Final Examination to get the master degrees.

Each party approves the curriculum in accordance with the requirements of its country.

The first year: at JUST								
Course type		**Course name**	**Credithours**	**Credit**	**Semester**	**Language**	**Department**	**Remarks**
Degree Course 24	**General Course**	The socialism theory and practice with Chinese characteristic	32	2	Autumn	Chinese	JUST	Required course
		First Foreign Language Russian	128	4	/ Autumn/ Spring	Bilingual	JUST	

		Mathematical physics equations	48	3	Autumn	English	JUST	
	Specialized Course	Contemporary fluid and gas dynamics	48	3	Autumn	English	JUST	
		Modern theory of heat transfer	80	5	Autumn	English	OMSU & JUST	
	Specialized Core Course	Calculation and design of autonomous energy sources	64	4	Spring	English	OMSU	
		Calculation and design of automatic control systems for small energy facilities	48	3	Spring	English	OMSU	
		Application of fuel cells	48	3	Spring	English	JUST	2 1 Select one
Non-Degree Course 17		Renewable energy technology	48	3	Spring	English	JUST	
	Specialized elective course							
Non-Degree Course 17								

		Application of heat pump systems	48	3	Spring	English	OMSU	
		Literature searching and scientific paper writing	[redacted]	2	Spring	English	OMSU	2 1 Select one
		Social adaptation and the basics of socio-legal knowledge	32	2	Spring	English	OMSU	
	Specialized elective course	Calculation and design of heat transformers	48	3	-		OMSU U.626STf	

		Research		10	Autumn Spring	English	OMSU & JUST	

The second year: at OMSU		
	Subject study and Research 1.The subject must comply with the research topic listed in the third items. The specific content of the subject should be decided by students and their supervisors. 2.Teaching language: English. 3. Students succeeded in Russian dissertation defense.	**Remark:** Students who do not transfer to OMSU shall stay in China to carry on subject research and prepare the dissertation according to JUST requirements.

The third year: at JUST		
Content	Dissertation and dissertation defense	Remark: Students succeeded in Chinese dissertation defense

Scientific research requires

JUST requirements

Before the defense, the program students should publish 2 papers in journal or in proceedings of national conference jointly with the supervisor (tutor as the first author). It could be a related invention patent disclosure.

OMSU requirements

Master's dissertation includes the use of new solutions (methods, dependencies, models, etc.) which are directly connected with approved topic. The novelty of the proposed solutions should be confirmed by the author in scientific articles (collections of articles, conference proceedings), patents for invention/utility model (at least two articles or patents should be performed during the whole period of study). A manuscript of review article, reflecting the problem of the dissertation topic not only in Russia and China, but also in the world, should be prepared at the end of the first year of study.

Dissertation

The topic selection should be related to the field of Power engineering/Heat power engineering which has the actual engineering or the specific engineering background, and involves solution of particular technical tasks, novelty and workload directed on Master degree student. The dissertation should reflect the ability of Master degree students to use scientific theories, methods and techniques to solve practical problems, and have a certain theoretical basis, which is advanced and practical.

To apply for OMSU master degree, the dissertation should be written in English and made according to the standards of drawing up the documentation connected with academic activity. To apply for JUST master degree, the dissertation could be written in

English or Chinese. If the dissertation is written in English, the abstract should be translated into Chinese. If the dissertation is written in Chinese, the abstract should be translated into English.

Degree Awarded

Students of this programme who have passed the examinations of the degree courses and other required and elective courses, finished specified procedure, and got enough credits required by JUST, may apply for dissertation defense. Those students who have successfully defend

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