

Doctoral Program Course List

Course Category		Course Name	Year	Credits	
				Mandatory	Elective
Specialized Courses	Materials	Physics and Chemistry of Electronic Materials	1		2
		MEMS Technology and Materials	1		2
		Advanced Computational Materials Science	1		2
		Advanced Lecture of Mechanical and Electrical Systems (Materials Science)	2	2	
	Energy	Wind Power Technology	1		2
		Enabling Technologies of Solid-State Power Conversion	1		2
		Computer-Aided Design of Semiconductor Power Devices and Module	1		2
		Advanced Lecture of Mechanical and Electrical Systems (Energy Engineering)	2	2	
	Information	Computer Mathematics for Graduate Engineers	1		2
		Scripting Languages and Virtual Machines	1		2
		Advanced Lecture of Mechanical and Electrical Systems (Information Engineering)	2	2	
	Systems	Advanced Robotics	1		2
Theory of System Design		1		2	
Remote Sensing		1		2	
Advanced Lecture of Mechanical and Electrical Systems (Systems engineering)		2	2		
Research Activity Courses	Fundamental Research	Advanced Exercise I for Doctoral Program	1	2	
		Advanced Exercise II for Doctoral Program	1	2	
		Advanced Exercise III for Doctoral Program	2	2	
		Advanced Exercise IV for Doctoral Program	2	2	
		Advanced Exercise V for Doctoral Program	3	2	
		Advanced Exercise VI for Doctoral Program	3	2	
	Practical Research	Advanced Research I for Doctoral Program	1	2	
		Advanced Research II for Doctoral Program	1	2	
		Advanced Research III for Doctoral Program	2	2	
		Advanced Research IV for Doctoral Program	2	2	
		Advanced Research V for Doctoral Program	3	2	
		Advanced Research VI for Doctoral Program	3	2	
Scientific English Courses	Scientific English III		1	2	
	Scientific English IV		2	2	