

PhD program in Thermal Physics (2013)

The total minimum required number of credits:	94 credits
- Coursework:	24 credits
+ Basic courses:	12 credits
• Required:	09 credits
• Elective:	03/6 credits
+ Advanced foreign languages for academic purposes:	04 credits
+ Advanced courses:	06/12 credits
+ Overview:	02 credits
- Research	
- PhD Thesis:	70 credits

Available curriculum:

No	Code	Subjects	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
I	Part 1. Coursework						
I.1	Basic courses		12				
I.1.1	Required		9				
1	PHY8061	<i>Thermodynamics and phase transition theory</i>	3	40		5	PHY6061
2	PHY8062	<i>Some physical phenomena at high magnetic field</i>	3	40		5	PHY6061 PHY6069
3	PHY8063	<i>Experimental techniques in low temperature physics</i>	3	40		5	PHY6061 PHY6069
I.1.2	Elective		3/6				
4	PHY8064	<i>Phase transitions and critical phenomena</i>	3	40		5	PHY6061 PHY8069

No	Code	Subjects	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
5	PHY8065	<i>Spin – reorientation in intermetallic compounds</i>	3	40		5	PHY6061
I.2	Advanced Academic English		4				
6	ENG 8001	<i>Advanced Academic English</i>	4			60	
I.3	Advanced courses		6/12				
7	PHY8066	<i>Physics of superconductivity</i>	3	40		5	PHY6064 PHY6068
8	PHY8067	<i>Giant magnetoresistance in rare-earth compounds</i>	3	40		5	PHY6061
9	PHY8068	<i>High magnetic field technique</i>	3	40		5	PHY8063
10	PHY8069	<i>Heat transfers</i>	3	40		5	PHY6061
I.4	Overview		2				
11	PHY 8070	<i>Research perspective report</i>	2			30	
II	Part 2. Research (research planning, publishing ...)						
III	Part 3. Doctoral Thesis						
12	PHY 9006	<i>Doctoral thesis</i>	70				
		Total	94				