

## PhD program in Solid State 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	
<b>I</b>	<b>Part 1. Coursework</b>						
<b>I.1</b>	<b>Basic courses</b>		<b>12</b>				
<i>I.1.1</i>	<i>Required</i>		<b>9</b>				
1	PHY8021	<i>Perspective of current researches on magnetic materials</i>	3	40		5	PHY6023
2	PHY8022	<i>Perspective of current researches on semi-conductor and dielectric materials</i>	3	40		5	PHY6022
3	PHY8023	<i>Perspective of current researches on solid state physics theory</i>	3	40		5	PHY6021
<i>I.1.2</i>	<i>Elective</i>		<b>3/6</b>				

No	Code	Subjects	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
4	PHY8024	<i>Physics of low dimensional systems</i>	3	40		5	PHY6021
5	PHY8025	<i>Materials and nano technology</i>	3	40		5	PHY6021
<b>I.2</b>	<b>Advanced foreign languages for academic purposes:</b>		<b>4</b>				
6	ENG 8001	<i>Advanced English for Academic Purposes</i>	4			60	
<b>I.3</b>	<b>Advanced courses</b>		<b>6/12</b>				
7	PHY8026	<i>Defects and dislocation in solids</i>	3	40		5	PHY6022
8	PHY8027	Vật lý siêu dẫn	3	40		5	PHY6021
9	PHY8028	<i>Phase transitions and critical phenomena</i>	3	30		15	PHY6021
10	PHY8029	<i>Spin – reorientation in intermetallic compounds</i>	3	30		15	PHY6023
<b>I.4</b>	<b>Overview</b>		<b>2</b>				
11	PHY 8030	<i>Research Perspective Report</i>	2			30	
<b>II</b>	<b>Part 2. Research (research planning, publishing ...)</b>						
<b>III</b>	<b>Part 3. Doctoral Thesis</b>						
12	PHY 9002	<i>Doctoral thesis</i>	70				
		<b>Total</b>	<b>94</b>				