♦ Department of Physics (Condensed Matter Physics)

1. Graduation Requirements(修了要件)

[Master's degree]

A candidate must fulfill the following requirements.

- (1) 30 credits or more from the Graduate School Courses. (大学院授業科目)
- (2) Additional requirements set by the department
 - · Research Courses (研究科目群)
 - 4 credits from the Seminar Courses. (講究科目)
 - 9 credits from the Graduate Research Courses. (研究関連科目)
 - · Courses by Departments (専門科目群)
 - 9 credits or more from the Departmental Courses. (専攻専門科目)
 - 2 credits or more from the Liberal Arts and General Education. (大学院教養・共通科目群)
- (3) The candidate must pass master's-thesis examination and the final examination.

[Doctoral degree]

A doctoral candidate must fulfill the following requirements.

- (1) Seminars in Physics designated for each semester.
- (2) The candidate must complete and upload a thesis for the degree, and pass the final examination (including English proficiency) for the degree. The candidate is advised to consult with his/her supervisor for the policy of awarding the degree.

2. Tables of Course Subjects

Research Courses (研究科目群)

Course Number	Category Remarks* (See footnotes)	Subject	Credit	Semester S: Spring A:Autumn	Remarks		
Seminar C	ourses (講究科目)		1	1			
17701	R	Seminars in Physics I	0-1-0	S	MC(1)		
17702	R	Seminars in Physics II	0-1-0	A	MC(1)		
17703	R	Seminars in Physics III	0-1-0	S	MC(2)		
17704	R	Seminars in Physics IV	0-1-0	A	MC(2)		
17801	R	Seminars in Physics V	0-2-0	S	DC(1)		
17802	R	Seminars in Physics VI	0-2-0	A	DC(1)		
17803	R	Seminars in Physics VII	0-2-0	S	DC(2)		
17804	R	Seminars in Physics VIII	0-2-0	A	DC(2)		
17805	R	Seminars in Physics IX	0-2-0	S	DC(3)		
17806	R	Seminars in Physics X	0-2-0	A	DC(3)		
Graduate Research Courses. (研究関連科目)							
17601	R	Colloquium in Condensed Matter Physics	0-1-0	A	MC(1)		
17751	R(T)	Exercise in Condensed Matter Physics and Statistical Mechanics I	0-2-0	S	MC(1)		
17752	R(T)	Exercise in Condensed Matter Physics and Statistical Mechanics II	0-2-0	A	MC(1)		

17753	R(T)	Exercise in Condensed Matter Physics and Statistical Mechanics III	0-2-0	S	MC(2)
17754	R(T)	Exercise in Condensed Matter Physics and Statistical Mechanics IV	0-2-0	A	MC(2)
17761	R(E)	Laboratory Works in Material Physics I	0-0-2	S	MC(1)
17762	R(E)	Laboratory Works in Material Physics II	0-0-2	A	MC(1)
17763	R(E)	Laboratory Works in Material Physics III	0-0-2	S	MC(2)
17764	R(E)	Laboratory Works in Material Physics IV	0-0-2	A	MC(2)
Departmen	tal Courses (専攻専	厚門科目)			
17034 17043 17044	R(G)	Colloquium in Quantum Physics and Nanoscience I-III	0-1-0	A	DC
17033 17046	R(G)	Overseas Visiting Research in Quantum Physics and Nanoscience I,II	0-1-0	AS	DC

^{*}R: Required, R(T): Required (Theoretical), R(E): Required (Experimental),

R(G): Required (Global COE Course)

Courses by Departments (専門科目群)

Course Number	Category Remarks* (See footnotes)	Subject	Credit	Semester S: Spring A:Autumn	Remarks
Departmen	ntal Courses (専攻専	亨門科 目)			
17025		Quantum Mechanics of Many-body Systems	2-0-0	S	
17002		Advanced Statistical Physics	2-0-0	A	
17003		Electron Theory of Solids	2-0-0	A	
17004		Crystal Physics	2-0-0	A	
17006		Low Temperature Physics	2-0-0	S	
17026		Light and Matter I	1-0-0	S	
17027		Light and Matter II	1-0-0	S	
17058		Light and Matter III	1-0-0	A	
17011		Physics of Magnetic Materials	1-0-0	A	
17012		Physics of Soft Matters	1-0-0	A	
17501-		Special Topics in Solid State Physics I- XII	1-0-0	SA	
17512		of the state of th		-	
17013- 17018		Recent Progress in Condensed Matter Physics I- VI	1-0-0	SA	
	Other Departments	· ·		<u> </u>	
16651		Physics Fundamental Experiments I	0-0-1	S	
16001		Quantum Information	2-0-0	A	

Liberal Arts and General Education (大学院教養・共通科目群)

International Communication(大学院国際コミュニケーション科目)		
Courses for International Students(大学院留学生科目)		
Designated by the Department (専攻指定)		
16029- Practical Exercises in International Researches I-XI	0-1-0	
16030- Practical Exercises in Organizing International		
Conferences I-XI	0-1-0	
17020-17023 Science in English (Condensed Matter Physics)	I-IV 1-0-0	
16023-16073 Science in English (Fundamental Physics) I-IX	1-0-0	
17019 Academic Writing in Physics	2-0-0	S
16022 Academic Presentation in Physics	2-0-0	A
17045 Academic Writing in Quantum Physics and Nanoscience	ace 2-0-0	S
16039 Academic Presentation in Quantum Physics and Nanos	science 2-0-0	A
17033, 17046 Overseas Visiting Research in Quantum Physic	es and	
Nanoscience I,II	0-1-0	AS