"Quantum Optics" guidelines of the standard curriculum

2021~

<integrated master-doctoral degree program>

Semester	Course	Credit	
1	CLASSICAL MECHANICS	3	Required(Major common)
	CLASSICAL ELECTROMAGNETIC THEORY I	3	Required(Major common)
	QUANTUM MECHANICS I	3	Required(Major common)
	APPLIED OPTICS I	3	Required(Major)
2	CLASSICAL ELECTROMAGNETIC THEORY II	3	Required(Major common)
	QUANTUM MECHANICS II	3	Required(Major common)
	WRITING PHYSICS PAPERS	3	Required(Major common)
	EXPERIMENTAL PHYSICS	3	Required(Major common)
3	ATOMIC SPECTROSCOPY I	3	Major(Choose 1)
	SPECIAL TOPICS IN ADVANCED PHYSICS I(Seminar)	3	Major(Choose 1)
	QUANTUM OPTICS I	3	Major(Choose 1)
4	ATOMIC SPECTROSCOPY II	0	Major(Choose 1)
	SPECIAL TOPICS IN ADVANCED PHYSICS II(Seminar)	3	Major(Choose 1)
5	SPECIAL TOPICS IN ATOMIC PHYSICS I	0	Major(Choose 1)
	QUANTUM FIELD THEORY I	0	Major(Choose 1)
	APPLIED OPTICS II	0	Major(Choose 1)
6	NONLINER OPTICS II	0	Major(Choose 1)
	QUANTUM OPTICS II	0	Major(Choose 1)
	Total Credits	**48**	

*Students for the integrated program are required to complete 48 credits in total.
*Insufficient credits can be freely taken according to your choice.

<master's degree>

Semester	Course	Credit	
1	CLASSICAL MECHANICS	3	Required(Major common)
	CLASSICAL ELECTROMAGNETIC THEORY I	3	Required(Major common)
	QUANTUM MECHANICS I	3	Required(Major common)
	APPLIED OPTICS I	3	Required(Major)
2	WRITING PHYSICS PAPERS	3	Required(Major common)
	EXPERIMENTAL PHYSICS	3	Required(Major common)
3	ATOMIC SPECTROSCOPY I	3	Major(Choose 1)
	QUANTUM OPTICS I	3	Major(Choose 1)
4			
	Total Credits	**24**	

*Students for the master's degree are required to complete 24 credits in total.

<doctoral degree>

Semester	Course	Credit	
1	SPECIAL TOPICS IN ADVANCED PHYSICS I(Seminar)	3	Major(Choose 1)
	SPECIAL TOPICS IN ATOMIC PHYSICS I	3	Major(Choose 1)
	APPLIED OPTICS II	3	Major(Choose 1)
	QUANTUM FIELD THEORY I	3	Major(Choose 1)
2	CLASSICAL ELECTROMAGNETIC THEORY II	3	Required(Major common)
	QUANTUM MECHANICS II	3	Required(Major common)
	SPECIAL TOPICS IN ADVANCED PHYSICS II(Seminar)	3	Major(Choose 1)
3	QUANTUM OPTICS II	0	Major(Choose 1)
	ATOMIC SPECTROSCOPY I	0	Major(Choose 1)
	SPECIAL TOPICS IN ATOMIC PHYSICS II	0	Major(Choose 1)
4	NONLINER OPTICS II	0	Major(Choose 1)
	ATOMIC SPECTROSCOPY II	0	Major(Choose 1)
	Total Credits	**30**	

*Students for the doctoral degree are required to complete 30 credits in total.
*Insufficient credits can be freely taken according to your choice.