

FIRST SEMESTER (Oct 4 – Jan 28)

Stochastic simulation methods - 10094
Cooperative and critical phenomena - 10104
Dynamical systems and chaos - 11001
Stochastic processes - 11002
Pattern formation - 11004
Complex networks - 11003
Introduction to complex systems - 11005
Scientific presentation and visualization - 11007

Oct 4 – 15

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9:15 - 11:15	Introduction to complex systems	Introduction to complex systems	Introduction to complex systems	Introduction to complex systems	Introduction to complex systems
11:30 - 13:00		Complex networks	Stochastic processes 11:45-13:15	Dynamical systems and chaos	Stochastic simulation methods 11:30-13:30

Oct 18- Jan 14

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9:15 - 11:15	Cooperative and critical phenomena 10:00-13:00	Dynamical systems and chaos 9:45-11:15	Stochastic simulation methods 9:30-11:30	Pattern formation 9:45-11:15	Scientific presentation and visualization
11:30 - 13:00		Complex networks	Stochastic processes 11:45-13:15	Dynamical systems and chaos	Stochastic simulation methods 11:30-12:30
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*December 17: Presentation of master thesis topics and 2nd semester optional subjects

Jan 17-21

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9:15 - 11:15	Cooperative and critical phenomena 10:00-13:00	Dynamical systems and chaos 9:45-11:15	Stochastic simulation methods 9:30-11:30		Pattern formation 9:45-11.15
11:30 - 13:00		Complex networks	Stochastic processes 11:45-13:15		Stochastic simulation methods 11:30-13:30

Jan 24-28

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9:15 - 11:15	Cooperative and critical phenomena 10:00-13:00	Dynamical systems and chaos 9:45-11:15	Stochastic simulation methods 9:30-11:30	Cooperative and critical phenomena 10:00-13:00	Pattern formation 9:45-11.15
11:30 - 13:00		Complex networks	Dynamical systems and chaos 11:45-13:45		Stochastic simulation methods 11:30-12:30

Exam period: January 31 – February 18. **Make-up exams period:** June 6 - 10

SECOND SEMESTER (Feb 21 –May 20)

Subjects:

Nonlinear photonics - 11013
Quantum physics for complex systems - 11006
Non equilibrium collective phenomena – 11008 **
Modeling and dynamics of neural systems – 11012 *
Systems biology – 11010 *
Statistical physics in biological systems – 11011 *
Collective phenomena in social dynamics – 11015 **
Spatiotemporal dynamics – 11009 *
Quantum and nonlinear optics – 11014 *
Quantum transport and quantum noise – 11016 **
Information theory – 11017 *
Turbulence and nonlinear phenomena in fluids – 11018 **

Feb 21- May 9

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9:00-11:00	Information theory	Nonlinear photonics	Statistical physics in biological systems 9:30-11:30	Modeling and dynamics of neural systems	Collective phenomena in social dynamics 9:30-11:30
11:10-13:10	Quantum and nonlinear optics	Quantum physics for complex systems 11:10-12:10	Spatiotemporal dynamics 11:40-13:40	Systems biology	Quantum physics for complex systems 11:40-13:40
13:10-14:10		Turbulence and nonlinear phenomena in fluids 12:10-14:10		Nonlinear photonics	
	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
15:30 - 17:30		Non equilibrium collective phenomena		Quantum transport and quantum noise	

* finish on week May 2
 ** finish on week May 9

May 9- 13

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9:00-11:00		Nonlinear photonics			
11:10-13:10		11:10-12:10 Quantum physics for complex systems			Quantum physics for complex systems 11:40-13:40
13:10-14:10				Nonlinear photonics 12:10-14:10	

May 16- 20

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9:00-11:00		Nonlinear photonics			
11:10-13:10		11:10-13:10 Quantum physics for complex systems			Quantum physics for complex systems 11:40-13:40
13:10-14:10				Nonlinear photonics 12:10-14:10	

Exam period: May 23 – Jun 3. **Make-up exams period:** June 13 - 17