

FIRST SEMESTER (Oct 26 – Feb 12)

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 26 – 30

	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			Stochastic processes 11:45-13:15	Dynamical systems and chaos	Stochastic simulation methods 11:30-12:30

Nov 2 – 6

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9:15 - 11:15	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 11:30-12:30

Nov 9- Feb 12

	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 18: Presentation of master thesis topics and 2nd semester optional subjects

** Ends on January 29th

[†] Ends on February 4th

Exam period: February 15 – March 5

SECOND SEMESTER (Mar 8 –Jun 4)

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 *

	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	11:10-12:10 Quantum physics for complex systems		Systems biology	
13:10-14:10		12:10-14:10 Turbulence and nonlinear phenomena in fluids	Nonlinear photonics		
	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
15:30 - 17:30		Non equilibrium collective phenomena		Quantum transport and quantum noise	

* finish on May 14

** finish on May 21

Exam period: June 7 – 18. Make-up exams period: June 28 – July 9