Training Activities plan - XL cycle

Lectures	activities/	first year
----------	-------------	------------

Activity/Lectures		CFU	SSD	Hours of lectures	
	Lectures				
1.	Theoretical and computational physics of the liquid state of matter (S. Prestipino Giarritta – G. Munaò)	2 CFU	PHYS-04/A	12	
2.	Structural and dynamic characterization of complex systems by spectroscopic techniques (V. Crupi - C. Corsaro)	2 CFU	PHYS-03/A	12	
3.	Nonequilibrium statistical mechanics (A. Sergi)	1CFU	PHYS-02/A	6	
4.	Complex quantum systems and nano-optics (O. Di Stefano - R. Saija - S. Savasta)	2 CFU	PHYS-04/A	12	
5.	Experimental physics applied to environmental and cultural heritage, biology and medicine (D. Majolino – V. Venuti – F. Caridi)	2 CFU	PHYS-06/A	12	
6.	Interaction of radiation with matter, plasmas, analysis and processing of materials (L. Torrisi - L. Silipigni – M. Cutroneo)	2 CFU	PHYS-03/A	12	
7.	Micro- and nanomaterials (F. Neri – E. Fazio)	2 CFU	PHYS-03/A	12	
8.	Nanomaterials and devices (S. Patanè – C. Triolo)	1 CFU	PHYS-03/A	6	
9.	Physics of disordered systems, polymers and biophysics (U. Wanderlingh – C. Branca)	2 CFU	PHYS-03/A	12	
10.	Physical methodologies for the study of condensed matter and the modeling of complex systems. (S. Magazù)	1 CFU	PHYS-03/A	6	
11.	Dynamics of nuclear reactions (A. Trifirò – M. Trimarchi)	2 CFU	PHYS-01/A	12	
12.	Baryonic resonances and hadronic cross sections in particle physics (G. Mandaglio)	1 CFU	PHYS-01/A	6	
13.	Geophysical and geodynamic studies using physical methodologies (B. Orecchio - D. Presti)	2 CFU	GEOS-04/A	12	
	OTHER TRAINING ACTIVITIES				
Individual research activity to be discussed for passing to the second year			23 CFU		
Annual Report (Activity Report, ISSN 2038-5889)		10 CFU			
Particip	ation to seminars, conferences, schools, stage abroad and in Italy		Max 8 CFL	J	
Free-Ch	Free-Choice activities		Max 8 CFU		
Total			Up to 60 CF	:U	

22 CFU (132 hours) – 13 lectures; 1 CFU = 6 hours

Activities second year

Activity	CFU	
Individual research activity to be discussed for passing to the third year	25 CFU	
Annual Report (Activity Report, ISSN 2038-5889)	10 CFU	
Participation to seminars, conferences, schools, stage abroad and in Italy	Max 23 CFU	
Free-Choice activities	Max 8 CFU	
Total	Up to 60 CFU	

Activities third year

Activity	CFU
Drafting thesis and discussion	35 CFU
Individual research activity	23 CFU
Free choice activity	max CFU 8
Total	Up to 60 CFU