Activity Plan

List of teachings/activities first year

Activity/Teaching	CFU	SSD*	Hours of lectures*
TEACHING (LECTURES)			
 Theoretical and Computational Physics of the liquid state of matter. Mod.A - Mod.B 	2 CFU	FIS03	12
2. Statistical mechanics of nonequilibrium. Mod. A Mod. B	1CFU	FISO2 FISO3	6
3. Complex quantum systems and nano-optics. Mod. A Mod. B	2 CFU	FIS03	12
4. Experimental physics applied to environmental and cultural heritage, biology and medicine. Mod. A Mod. B	2 CFU	FIS07 FIS01	12
Plasma physics, innovative materials, detectors and diagnostic techniques. Mod. A Mod. B	2 CFU	FIS01 FIS03	12
6. Micro-, nano - materials and devices. Mod. A Mod. B	2 CFU	FIS01 FIS03	12
7. Physical methodologies for the study of condensed matter and modeling of complex systems	1 CFU	FIS01	6
8. Physics of disordered systems, polymers and biophysics. Mod. A Mod. B	2 CFU	FIS01	12
9. Dynamics of nuclear reactions. Mod. A Mod. B	2 CFU	FIS04	12
10. Geophysics and geodynamics studies using physical methodologies. Mod. A Mod. B	2 CFU	GEO10	12
OTHER TRAINING ACTIVITIES			
Individual research activity to be discussed for passing to the second year	23 CFU		
Annual Activity Report (Activity Report, ISSN 2038-5889)	10 CFU		
Participation in seminars, conferences, schools, stage abroad and in Italy	Max 10 CFU		
Free choice activity	Max 8 CFU		

^{*}compilare le colonne solo per gli insegnamenti/corsi

Any further information for the items listed above

- 1 CFU lecture = 6 HOURS
- With regard to training activities related to participation in general and specialist seminars, conferences, schools, stage abroad and in Italy, certificates of attendance and/or participation issued by the unit in charge and/or organizers will be required
- With regard to the training activities related to the free choice activity, certificates of attendance and/or participation issued by the unit in charge and/or organizers will be required.

Choice of the subject of the thesis

The choice of the subject of the doctoral thesis is agreed with the supervisor, assigned by the teaching staff, in the light of the most current basic and applied physics research fields of interest to the scientific community, concerning the disciplinary and/or research areas present within the PhD Course.

Assessment procedures for admission to the following year

Presentation and discussion of the teaching and research activity carried out during the year.

List of teachings/activities second year

Activity/Teaching	CFU	SSD*	Hours of lectures *
Individual research activity to be discussed for passing to the third year	23 CFU		
Annual Activity Report (Activity Report, ISSN 2038-5889)	10 CFU		
Participation in seminars, conferences, schools, stage abroad and in Italy	Max 25 CFU		
Free choice activity	Max 8 CFU		

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Any further information for the items listed above

- With regard to training activities related to participation in general and specialist seminars, conferences, schools, stage abroad and in Italy, certificates of attendance and/or participation issued by the unit in charge and/or organizers will be required.
- With regard to the training activities related to the free choice activity, certificates of attendance and/or participation issued by the unit in charge and/or organizers will be required.

Thesis preparation procedure

The preparation of the thesis consists of a period of data collection with subsequent processing, concerning the chosen research topic, under the supervision of the Tutor and any co-Tutor. To this aim, it will also be possible to attend facilities, research institutes and/or universities on the national and foreign territory.

Assessment procedures for admission to the following year

Presentation and discussion of the research results got during the year for preparing the thesis.

List of teachings/activities third year

Activity/Teaching	CFU	SSD*	Hours of lectures *
Drafting thesis and discussion	35 CFU		
Individual research activity	23 CFU		
Free choice activity	max CFU 8		

^{*}compilare le colonne solo per gli insegnamenti/corsi

Any further information for the items listed above

- With regard to training activities related to free choice activity, certificates of attendance and/or participation issued by the unit in charge and/or organizers will be required

Admission procedure for the final exam (thesis defence)

Presentation and discussion of the results of the thesis, accompanied by a PhD student's report on the activities carried out during the Doctorate course and on any publications. The thesis is evaluated by at least two highly qualified scientists, even belonging to foreign institutions, external to the University of Messina, in accordance with paragraph 4 of art. 21 of the Doctoral Regulations.

Procedure for the final exam

Public PhD thesis defense, previously examined and evaluated as required by paragraph 4 of art. 21 of the Doctoral Regulations of the University of Messina