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<http://nucleare.ing.unipi.it/it/>



From the academic year 2012-2013, the first year of the MSc in Nuclear Engineering at the University of Pisa is taught in English. Foreign students are welcome !

The complete study plan is reported below. For info, send messages to younuclear@ing.unipi.it and visit the Facebook page: Studiare Ingegneria Nucleare a Pisa – Nuclear Engineering Studies in Pisa.

and the University of Pisa page <http://nucleare.ing.unipi.it/it/>

Dipartimento di Ingegneria Meccanica Nucleare e della Produzione (to be changed to "Dipartimento di Ingegneria Civile ed Industriale" in September 2012)		
Degree Course Name: Ingegneria Nucleare (Nuclear Engineering)		
President of the Degree Council: Prof. Walter Ambrosini E-mail: walter.ambrosini@ing.unipi.it		
FIRST YEAR	ECTS	Modules
1st semester		
Impianti Nucleari I (Nuclear Plants I)	6	
Fisica e modelli numerici per reattori nucleari (Reactor physics and numerical models for nuclear reactors)	6	Reactor Physics (6)
Meccanica strutturale e costruzioni nucleari (Structural mechanics and Nuclear constructions)	6	Structural Mechanics (6)
Termoidraulica e Ingegneria del nocciolo (Thermal-hydraulics and Core engineering)	6	Core Engineering (6)
Materiali Nucleari (Nuclear Materials)	6	
	30	

2nd semester		
Meccanica strutturale e costruzioni nucleari (Structural mechanics and Nuclear constructions)	6	Nuclear Constructions (6)
Termoidraulica e Ingegneria del nocciolo (Thermal-hydraulics and Core engineering)	6	Thermal-hydraulics (6)
Fisica e modelli numerici per reattori nucleari (Reactor physics and numerical models for nuclear reactors)	6	Numerical Models for Nuclear Reactors (6)
Misure Nucleari (Nuclear Measurements)	6	
Elective Course	6	
	30	
SECOND YEAR	ECTS	Modules
3rd semester		
Impianti Nucleari II (Nuclear Plants II)	6	
Controllo e esercizio degli impianti nucleari (Control and Operation of Nuclear Plants)	6	Control theory for complex plants (6)
Sicurezza Nucleare (Nuclear Safety)	6	Safety of nuclear plants (6)
4th semester		
Sicurezza Nucleare (Nuclear Safety)	6	Accident analysis in nuclear plants (6)
Controllo e esercizio degli impianti nucleari (Control and Operation of Nuclear Plants)	6	Dynamics, control and operation of electro-nuclear plants (6)
Elective Course	6	
Thesis work	24	
	60	
Group 1 Elective	ECTS	Modules
Applicazioni mediche delle tecnologie Nucleari (Medical applications of Nuclear Technologies)	6	
Decommissioning degli impianti nucleari e gestione dei rifiuti radioattivi (Decommissioning of nuclear plants and waste management)	6	
Group 2 Free choice	ECTS	Modules
Ingegneria dei reattori a fusione (Fusion Reactor Engineering)	6	
Progettazione di impianti complessi (Design of Complex Plants)	6	
Abilità informatiche (Computing abilities)	6	