Program name: materials physics

Program Description:

The proposed training is an academic license which aims to allow the student to prepare a master's degree in materials physics. During his training, the licensee will have acquired both theoretical and experienced knowledge in material sciences

Semester 1 Teaching unit	
fundamental teaching units	Mathematics 1
	Physics 1
	Chemistry 1
Methodology TU	PW Mechanic 1
	PW chemistry 1
	Informatics 1
transverse TU	english 1
Discovery TU	Environment
Semester 2 Teaching unit	
fundamental teaching units	Mathematics 2
	Physics
	Chemistry 2
Methodology TU	PW of Electricity
	PW chemistry 1
	Informatics 2
transverse TU	english 2
Discovery TU	Renewable Energies
Semester 3 Teaching unit	
fundamental teaching units	Differential series and equations
	Analytical mechanics
	Vibrations and waves
	Geometric and physical optics
Methodology TU	PW Vibrations and waves
	PW Geometric and physical optics
	numerical methods and programming
transverse TU	English 3
Discovery TU	Physical crystallography
Semester 4 Teaching unit	
fundamental teaching units	Thermodynamics
	Function of the complex variable
	Quantum mechanics
	Electromagnetism
Methodology TU	PW Thermodynamics
	Fluid mechanics
	General electronics
transverse TU	Englihs 4
Discovery TU	Atomic and nuclear physics

Semester 5 Teaching unit	
fundamental teaching units	Quantum mechanics 2
	Solid State Physics 1
	Statistical physics
Methodology TU	Mathematics for Physics
	PW Solid State Physics 1
	Software
	Numerical analysis
transverse TU	Scientific English 1
Discovery TU	Component electronics
	Acoustic
Semester 6 Teaching unit	
fundamental teaching units	Solid State Physics 2
	Semiconductor physics
	atomic physics
	Defect properties
Methodology TU	PW Solid State Physics 2
	Method of analysis and characterization
	PW Semiconductor physics
transverse TU	Scientific English 2
Discovery TU	Materials technology
	Optoelectronics