

Inertial Confinement Fusion

Academic Year: (2024 / 2025)

Review date: 16-03-2021

Department assigned to the subject: Physics Department

Coordinating teacher:

Type: Electives ECTS Credits : 3.0

Year : 2 Semester : 1

DESCRIPTION OF CONTENTS: PROGRAMME

All courses are expressed in the mathematical language typical of physics: differential calculus in one and several variables, complex numbers, algebra and statistics. They also include basic and advanced concepts of modern Physics (Mechanics, Thermodynamics, Electromagnetism and Quantum Mechanics)

Laser-matter interactions; implosion models; hydrodynamics of high-density plasmas; direct and indirect ignition; technology for inertial confinement fusion.