

Study programmes: BACHELOR STUDIES – Astronomy and Astrophysics			
Course name: Thermodynamics			
Lecturers: Božidar Nikolić and other lecturers			
Status: Compulsory			
ECTS: 10			
Attendance prerequisites: No prerequisites.			
Course aims: Understanding of the basic laws of fluid mechanics, kinetic theory and thermodynamics. Attaining a skill of estimation based on the solid physical ground.			
Course outcome: Capability to solving standard problems, based on clear understanding of basic physical principles.			
Course content: Fluid mechanics: Basic concepts. Temperature and Heat. Thermal properties of Matter. The First Law of Thermodynamics. The Second Law of Thermodynamics. Entropy. The Third Law of Thermodynamics. Phase Transitions.			
Literature: 1. Young & Freedman, University Physics vol. 1, 11th ed., Pearson Addison Wesley (2004) 2. Enrico Fermi, Thermodynamics, Dover (1956)			
Number of hours: 10	Lectures: 4	Tutorials: 3	Laboratory: 3 Research: -
Teaching and learning methods: Lectures, exercises, group discussions, homework, essays.			
Assessment (maximal 100 points)			
Course assignments	points	Final exam	points
Lectures	-	Written exam	40
Exercises / Tutorials	10	Oral exam	30
Colloquia	-	Written-oral exam	-
Essay / Project	20		