



UNIVERSITY OF MITROVICA “ISA BOLETINI”

Course Curriculum Model (Syllabus)

Fakulty:	Faculty of Mechanical and Computer Engineering	
Department:	Engineering Informatics	
Level:	Bachelor	
Code of the course:	102-CSE	
Course:	Inginierring Physics	
Course Status:	Obligatory	(mandatory)
Semester:	Winter	(summer)
Number of hours per week:	2 + 2	
ECTS:	6	
Time / location:	Lecture, Monday, 12:30 – 15:30 / Online ; Exercise, Wednesday, 13:00 -17:30 S301	
Year of studies:	2025/2026	
Lecturer:	Prof.Asoc.Dr.Labinot KASTRATI	
Assistent:	Prof.Asoc.Dr.Labinot KASTRATI	
Contact details:	Lecturer	Assistant
Email:	labinot.kastrati@umib.net	labinot.kastrati@umib.net
Telefon:	+38344496017	+38344496017

Content	In this course students will be introduced to: International system and vectors, one and two dimensional motions, circular motions, radial and tangential acceleration, Newton's laws. Kinetic and potential energy, the law of conservation of energy. Moment of force, Moment of inertia, gravity.	
Purpose	Enabling the student to choose and apply the method and content from physics, for the needs in the production process of the relevant technical field, so that the technological process of their production and implementation has a high quality value.	
Accessibility	At the end of the course the student is expected to be able to: 1. Describe the basic physical quantities and their units. 2. Understand kinematics and dynamics. 3. Demonstrate some of the laws of physics. 4. Distinguish some phenomena from some other physical phenomena. 5. Evaluate the use of physics discoveries to build something new. 6. Argue the laws of physics by experiment.	
Program	weeks	Lecture

	<i>First week:</i>	GENERAL KNOWLEDGE
	<i>Second week:</i>	MOTION
	<i>Third week:</i>	FORCE AND GRAVITY
	<i>Fourth week:</i>	WORK AND ENERGY
	<i>Fifth week:</i>	MOTION AND BALANCE OF BODIES
	<i>Sixth week:</i>	FLUIDS
	<i>Seventh week:</i>	SOLID STATE PHYSICS
	<i>Eighth week:</i>	TEMPERATURE AND HEAT
	<i>Ninth week:</i>	VIBRATIONS AND WAVES
	<i>Tenth week:</i>	SOUND
	<i>Eleventh week:</i>	ELECTRICAL CHARGES
	<i>Twelfth week:</i>	ELECTRIC CURRENT
	<i>Thirteenth week:</i>	PROPAGATION OF LIGHT
	<i>Fourteenth week:</i>	ATOM
	<i>Fifteenth week :</i>	BASICS OF NUCLEAR PHYSICS
Literature	Principal literature: [1] Labinot KASTRATI, Lutfi ISTREFI, FIZIKA (In process of publication) [1] Skender H. Skenderi & Rashit Maliqi, Fizika për studentët e fakulteteve teknike, Prishtinë, 2008 Recommended Literature: [1] Paul A. Tipler. Gene Mosca: Physics for Scientist and Engineers. 2008	
Teaching methodology	The teaching takes place regularly, in a joint lecture, while the numerical exercises are also developed in groups, dividing the students into smaller groups with probationary tasks.	

Academic policies	Further instructions: Computer work Written works must be computer written. In the works it is obligatory to respect the criteria for both the visual and the content aspect of the required works. During the works it is required to respect the spelling rules and APA style Ethics in teaching The different semester papers should be papers of each student. There will be no tolerance for copying, "borrowing" from the Internet or any other material. The same or similar works will have negative evaluations in the final evaluation of the student. Deadlines In agreement with the students, the deadlines for submitting works will be determined. There will be no tolerance for delays in the submission of works. Failure to arrive at the time when the assignment is explained does not justify the student for not submitting the paper. The deadline will be given earlier. If you are going to travel abroad, then you need to submit the paperwork in advance. The student has the right to request a consultation with the professor whenever he / she deems it reasonable and necessary for the performance of his / her work. Rules of conduct and academic policies: - o active participation of students in lectures - o participation in discussion, comments and free expression of opinion, opinion and academic position (with arguments) - o Mandatory independent work and use of additional sources of information (various scientific websites, scientific journals, conference proceedings, etc.) - o Respecting lecture schedules without compromising academic freedom (silent cell phones) - o respecting the word, thoughts and ideas of colleagues - o low tolerance for late arrivals and departures without any valid reason - o preparation and equipping with relevant lectures (obligation of the teacher).

Mitrovica

Course provider:

(Name Surname)

(Signature)