

Anno Accademico 2018/2019

PHYSICS		
Enrollment year	2018/2019	
Academic year	2018/2019	
Regulations	DM270	
Department	DEPARTMENT OF CIVIL ENGINEERING AND ARCHITECTURE	
Course	CIVIL AND ENVIRONMENTAL ENGINEERING	
Curriculum	PERCORSO COMUNE	
Year of study	1°	
Period	Annual (01/10/2018 - 14/06/2019)	
ECTS	12	
Language	Italian	
The activity is split		
500449 - PHYSICS A		
500450 - PHYSICS B		



Anno Accademico 2018/2019

PHYSICS A		
Enrollment year	2018/2019	
Academic year	2018/2019	
Regulations	DM270	
Academic discipline	FIS/01 (EXPERIMENTAL PHYSICS)	
Department	DEPARTMENT OF CIVIL ENGINEERING AND ARCHITECTURE	
Course	CIVIL AND ENVIRONMENTAL ENGINEERING	
Curriculum	PERCORSO COMUNE	
Year of study	1°	
Period	1st semester (01/10/2018 - 18/01/2019)	
ECTS	6	
Lesson hours	53 lesson hours	
Language	Italian	
Activity type	WRITTEN AND ORAL TEST	
Teacher	PIRZIO FEDERICO (titolare) - 6 ECTS	
Prerequisites	Those required for admission and for understanding basic notions of Calculus, Geometry and Algebra.	
Learning outcomes	The basic concepts of kinematics, dynamics of point masses and particle systems will be introduced in the first semester; the second semester deals with rigid bodies dynamics and statics, as well as thermodynamics. Students will be trained to problem solving with simple applicative exercises. The course emphasizes the importance of understanding basic principles, and encourages the students to affine their analytic and algebraic techniques for solving the proposed exercises.	
Course contents	Modulo A (Prof. F. Pirzio, first semester) Units and dimensions. Vectors. Kinematics. Forces and Newton's laws. Work and energy. Angular momentum. Particles systems, momentum and collisions. Gravitation. Oscillations. Elasticity. Waves.	

Teaching methods	Lectures (hours/year in lecture theatre): 33 Practical class (hours/year in lecture theatre): 20 Practicals / Workshops (hours/year in lecture theatre): 0
Reccomended or required readings	Serway Jewett, "Fisica per Scienze ed Ingegneria", vol. 1, EdiSES (4a edizione). Lectures notes (mod. A) (A. Agnesi). Official course website: http://www.unipv.it/fis/fisica1_ca/.
Assessment methods	Exam consists in both a written and oral test. The minimum mark for admission to the oral part of the exam is 15/30. The final mark is determined by both the oral and written tests.
Further information	Exam consists in both a written and oral test. The minimum mark for admission to the oral part of the exam is 15/30. The final mark is determined by both the oral and written tests.
Sustainable development goals - Agenda 2030	\$lbl_legenda_sviluppo_sostenibile



Anno Accademico 2018/2019

PHYSICS B		
Enrollment year	2018/2019	
Academic year	2018/2019	
Regulations	DM270	
Academic discipline	FIS/01 (EXPERIMENTAL PHYSICS)	
Department	DEPARTMENT OF CIVIL ENGINEERING AND ARCHITECTURE	
Course	CIVIL AND ENVIRONMENTAL ENGINEERING	
Curriculum	PERCORSO COMUNE	
Year of study	1°	
Period	2nd semester (06/03/2019 - 14/06/2019)	
ECTS	6	
Lesson hours	53 lesson hours	
Language		
Activity type	WRITTEN AND ORAL TEST	
Teacher	PIRZIO FEDERICO (titolare) - 3 ECTS AGNESI ANTONIANGELO - 3 ECTS	
Prerequisites		
Learning outcomes		
Course contents		
Teaching methods		
Reccomended or required readings		
Assessment methods		
Further information		
Sustainable development		