科目ナンバリング												
授業科目名 <英訳> Elementary Course of Physics A-E2 Elementary Course of Physics A-E2 超当者所属 職名・氏名 理学研究科 准教授 PETERS,Robert												
群	自然科	学科目群	<u>_</u>	分野(分類)	物理学((基礎)			使	使用言語 英語		
旧群	B群	単位数	2単位	週コマ数	コマ		授業用	受業形態 講義		(対面授業科		目)
開講年度・ 開講期	2025 ·	前期	曜時限	月3		配当	当学年 主として1		て1回生	対象学生		理系向
[授業の概要・目的] By using simplified models, we will describe the movement of particles, and learn the physical meaning of force, energy, work, and potential. We will learn how to predict the movement of objects in different situations. With these concepts, we will analyze simple examples such as the linear movement, rotations, the harmonic oscillator, collisions of two bodies and thereby understand theoretical approaches to physical problems. [到達目標] - getting a basic understanding of theoretical approaches to physical problems in mechanics - learning fundamentals of kinematics and dynamics - being able to use the learned concepts in simple problems. [授業計画と内容] The course will be adapted to the level of the students! Therefore, the number of weeks may change in order to increase of decrease the speed of the lecture. - introduction into necessary mathematics used during the course (1-2 weeks) - Kinematics (speed, acceleration, rotation) (2-3 weeks) - harmonic oscillator (1-2 week) - energy, work, potential (2-3 weeks) - collisions of two bodies (1-2 weeks) - collisions of two bodies (1-2 weeks)												
- Summary and repetition of the whole course (1 week) [履修要件]												
			-	tudents who die	d not sel	ect [ph	nysics]	in the	e entrar	nce exam	inati	on.
[成績評価の方法・観点] Worksheets/reports (50%) + examination (50%)												
[教科書] 未定 [参考書 (参考 授業中に	等] 書)	J J										
								Elemer	ntary Cou	irse of Phys	ics A-	E2(2)へ続く

Elementary Course of Physics A-E2(2)

[授業外学修(予習・復習)等]

Revision of the course by doing the work sheets

[その他(オフィスアワー等)]

Office hour: After the course

Although no specific knowledge about physics is needed for taking this course, basic skills in differential and integral calculus are expected.

The worksheets will give students an opportunity to practice their English skills in science.

[主要授業科目(学部・学科名)]