NEAR EAST UNIVERSITY – COMMON COURSES COORDINATION UNIT

Ders Bilgi Formu / Course Information Sheet

Ders Kodu / Course Code	**Ders Adı / Course Name**	**Kredi /Credit**	**AKTS /ECTS**
PHY105	Physics	3	4

Önkoşul / Pre-requisite: None

Ders Dili / Language:	**Ders Türü /Course Type:**	**Öğretim Ortamı / Mode of Instruction:**
English	Must	Online

Haftalık Ders Saati / Weekly Hours	**Sınıf Saati / Class Hours**	**Laboratuvar / Laboratory**	**Uygulama / Practicum**	**Öğrenim Oturumları / Learning Sessions**			
				PÇ / PS	**P / C**	**D / R**	**Ö / T**
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Öğrenim Çıktıları / Learning Outcomes	Bu dersin sonunda öğrenciler: After the completion of this course, the student will be able to: ► Develop the knowledge of the concepts, theories, techniques and principles of classical mechanics ► Understand the diagrammatic and graphical representation of physics problems and physical data ► Improve their skills in correctly using symbols and units, analytically/critically applying the theoretical concepts and methods of mechanics and formulating appropriate equations to solve problems ► Improve their skills in applying the theoretical concepts and methods of thermodynamics, fluid mechanics, radioactivity and formulating appropriate equations to solve problems ► Improve the strength of students' creative and systematic thinking capability
Ders Tanımı / Course Description	This is an introductory physics course for faculty of pharmacy. Its covers basic physics subjects such as mechanics, thermodynamics, optics and radioactivity.
Dersin Amaçları / Course Objectives	The objectives of this course are to provide the students with the fundamental principles of Mechanics, Thermodynamics, Optics and Biophysics to enable them to gain skills for problem solving and a scientific thinking, and to establish the foundations for further studies in pharmacology
Kullanılan Materyaller / Textbooks and/or References	1 Douglas C. Giancoli, Physics for Scientist and Engineers with Modern Physics, 4th Edition, Printice Hall 2 R. A. Serway and R. J. Beichner , "Physics for Scientist and Engineers with Modern Physics", 8th Edition, Thomson Brooks/Cole
Ders İçeriği / Course Content	1. Units and Vectors 2. Motion in one Dimension 3. Motion in Two Dimension 4. Newton's Laws and Applications of Newton's Laws 5. Fluid Mechanics 6. Flud Mechanics 7. Optics of the eye 8. Temperature, Thermal Expansion and Ideal Gas 9. Kinetic Theory of Gases, Heat and First law of Thermodynamics 10. Electrostatic related to membrane potential and action Potential 11. Structure and Properties of Nucleus Binding energy 12. Radioactivity