2019-2020 Academic Year

Physics Department

(Core – Skill and Knowledge)

Course description

Course code	Phys 101
Credit	3 credits (Lecture 2 + Lab1)
Course Title	College Physics
Course Coordinator	Dr Thandar Htoon
Prerequisite	None
Course Description	Mechanics, Thermodynamics, Vibrations and Waves
Objectives	• To provide the student with a clear and logical presentation of the basic concepts and principles of physics • To strengthen an understanding of the concepts and principles through a broad range of interesting applications in today's information technological area
Student Learning Outcomes	• Be able to identify and describe the basic laws of classical mechanics, thermal physics and wave motion • Be able to apply the basic laws of physics to the solution of conceptual and quantitative problems
Topics Covered	The chapters are covered by Kinematics, Dynamics in Newton's Laws of Motion, Collisions and Linear Momentum, Rotational Motion, Thermodynamics, Vibrations and Waves.
Text book and Reference	- College Physics "by Raymond A.Serway and Chris Vuille", 11^{th} Edition (Global Edition) ISBN-13: 978-1337620338 - Physics for Scientists and Engineers 9^{th} edition (SERWAY), University Physics 14^{th} edition (Hugh.D.Young and Roger A.Freedom), Fundamentals of Physics 10^{th} edition (Jearl Walker, David Halliday, Robert Resnick)
Lesson Plan	Mechanics: Topic (2) Motion in One Dimension Topic (3) Vectors and Two- Dimensional Motion Topic (4) The Laws of Motion Topic (6) Momentum and Collisions Topic (7) Rotational Motion and the Law of Gravity Thermodynamics: Topic (11) Energy in Thermal Physics Topic (12) The Laws of Thermodynamics Vibrations and Waves: Topic (14) Sound
Assessment Plan	1. Examination (50 %) 2. Attendance (10%) 3. Assignment/Tutorial (20 %) 4. Practical /Lab test (20%)