

2019-2020 Academic Year

Physics Department

Course description

Course code	Phys 102
Credit	3 credits (Lecture2 +Lab1)
Course Title	College Physics
Course Coordinator	Dr Thandar Htoon
Prerequisite	None
Course Description	Electricity and Magnetism, Light and Optics, Modern Physics
Objectives	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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 Electromagnetism, Optical Physics and Quantum Mechanics.
Text book and Reference	- College Physics "by Raymond A.Serway and Chris Vuille", 11 th Edition (Global Edition)) ISBN-13: 978-1337620338 - Ref: Physics for Scientists and Engineers 9 th edition (Raymond A. Serway and John W. Jewett, Jr.), 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	Electricity and Magnetism: Topic (15) Electric Forces and Electric Fields Topic (17) Current and Resistance Topic (18) Direct-Current Circuits Topic (19) Magnetism Topic (21) Alternating-Current Circuits and Electromagnetic Waves Light and Optics: Topic (24) Wave Optics Modern Physics: Topic (27) Quantum Physics
Assessment Plan	1. Examination (50 %) 2. Attendance (10%) 3. Assignment/Test at the end of each chapter (20 %) 4. Practical /Practical test (20%)