TH01018: PHYSICS

Credtis: Theory 2 - Practice 0

EXPECTED LEARNING OUTCOMES

Notations	Expected learning outcomes of the course By completing this course, students can:	ELO of Program
Knowledge		
CELO1	Analyze the laws that govern the mechanical, thermal, electromagnetic motions of matter.	ELO1: Apply the knowledge of natural science, politics, social science and humanities, law, economics, and awareness of contemporary issues in the field of environmental sciences. ELO2: Analyze environmental quality including designing and conducting experiments, collecting data, and interpreting results.
CELO2	Explain phenomena of interference, diffraction and polarization of light.	ELO1: Apply the knowledge of natural science, politics, social science and humanities, law, economics, and awareness of contemporary issues in the field of environmental sciences. ELO2: Analyze environmental quality including designing and conducting experiments, collecting data, and interpreting results.
CELO3	Explain atomic the structure of an atom and a nucleus, the phenomenon andthe law of nuclear radioactive decay and its applications.	ELO1: Apply the knowledge of natural science, politics, social science and humanities, law, economics, and awareness of contemporary issues in the field of environmental sciences. ELO2: Analyze environmental quality including designing and conducting experiments, collecting data, and interpreting results.
CELO4	Apply theory to solve a problem	ELO 5: Design waste treatment facilities (solid wastes, wastewater, and air pollutants) according to national and international standards and regulations.
Attitude		
CELO5	Presents self-consciousness to study and research	ELO11: Define a clear career orientation; possess a passion for one's career and a sense of lifelong learning.

COURSE'S CONTENTS

Chapter 1: System of units of measure and conversion ofunits

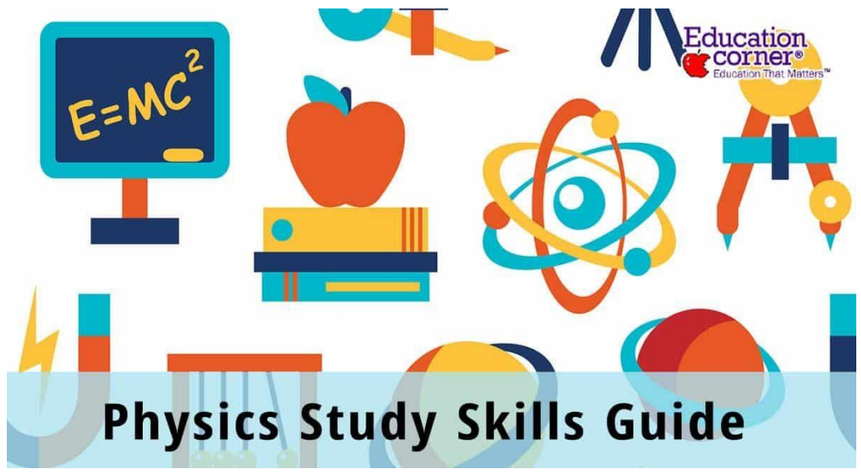
Chapter 2: Mechanics

Chapter 3: Thermal Physics

Chapter 4: Electric and MagneticFields

Chapter 5: Wave optics

Chapter 6: Atomic and Nuclear Physics

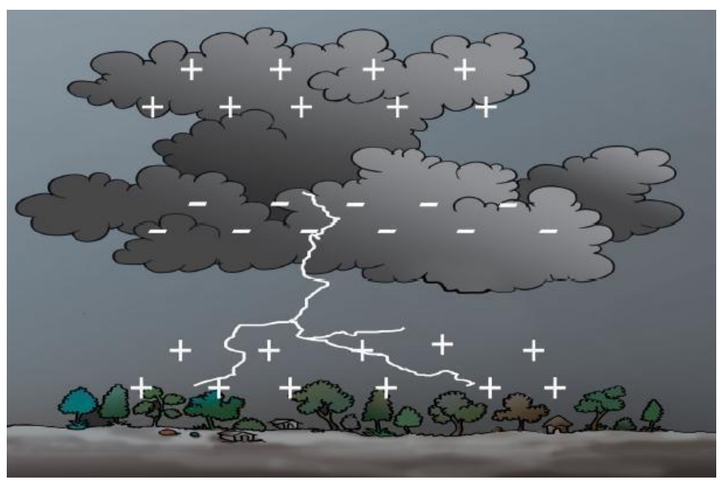


STUDENT'S TASK

- Attend atleast 80% of class lessons
- Prepare for lectures, read reference books, do homework before class
- Attend exams: midterm and final exam
- Be quiet and do not disturb the class. Actively participate in discussions, ask questions or give opinions during class. Take the midterm exam and the exam seriously.

GRADING POLICY

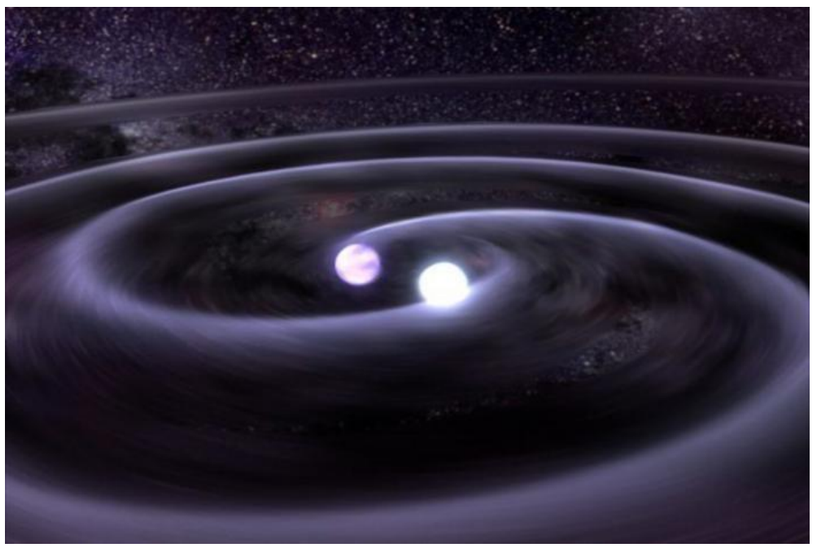
- Score: 10 points scale
- The course average score is the sum of the rubric scores multiplied by the respective weight of each rubric
- Evaluation of progress: 40%: Attend class - 5%, Exercises - 5%, Mid-term examination - 30%.
- End-of-term evaluation 60%: Essay



LEARNING METHODS

- Review lecturs and applied examples, refer to other documents, do homework.

- Discuss and give opinions in class, ask a question whenever the lecture is not clear to understand or any questions about any issues related to the content knowledge of the module.



LECTURERS IN CHARGED

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