

EBA1110 Physics**COURSE INFORMATION**

Prerequisites	Academic Year & Level		Teaching Methods			Credit Hrs.
	Year	Semester	Lecture	Tutorial	Laboratory	
-	1	1	2	0	2	3

COURSE AIM

- Understand the essential background of electricity, magnetism, and light.
- Make several experiments to make application on electricity, magnetism and light.
- Write technical reports and results.
- Understand the concepts of induction magnetic flux, and electric currents.
- Realize sound concepts and understand its properties

COURSE WEEKLY CONTENTS

- 1 Introduction to Vectors
- 2 Newton Law of Motion
- 3 Work & Energy
- 4 Introduction to Waves
- 5 Sound Waves-velocity of sound in solids, liquids and gasses
- 6 Superposition of waves- properties of sound wave
- 7 7th Exam
- 8 Capacitors
- 9 Electric Current and Resistance
- 10 Kirchhoff Law and RC circuit
- 11 Magnetic Force- Magnetic field
- 12 12th Exam
- 13 Source of Magnetic Field
- 14 Faraday Law
- 15 Inductance and General Revision

STUDENT GRADING & ASSESSMENT

Weeks	Exams	Assign.	Quizzes	Reports	Present.	Lab.	Total
1 to 7	←		30	MARKS		→	30
8 to 12	←		20	MARKS		→	20
1 to 15	←		10	MARKS		→	10
16 or 17	40	Final					40

REFERENCES

Textbook Serway and Jewett, Physics for Engineers and Scientists, Thomson Brooks/Cole.