MODULE INFORMATION

Module Overview

Module :	Physics	Course :	Selected courses of the School of DMIT, MAE and EEE
L : T/P :	2 : 2	Session :	2018/2019 S2

Synopsis

To provide the students with a good foundation in physics which is essential for pursuing degree courses in the universities. Topics covered include physical quantities and units, kinematics, dynamics, oscillations, waves, electricity, magnetism and electromagnetism. The extensive use of vectors and calculus in developing concepts allows the students to see how mathematics is used as a concise language of Physics.

Assessment

1.	Quizzes and General Performance (15%)	CA1
2.	Mid Semester Test (25%)	MST
3.	Exam (60%)	Exm

Recommended Text

1. University Physics with Modern Physics (13th edition) by Hugh D Young and Roger A Freedman, Pearson International Edition.

References

1. Physics For Scientists and Engineers with Modern Physics (7th edition) by John W. Jewett, Jr and Raymond A. Serway, Thomson, Brooks/Cole
2. Principles of Physics, Extended 9th edition, Resnick and Halliday, John Wiley and sons.

Lecturers

Name	Room	Tel No.	Internet Address
Mr. Tan Teow Chye	T726	67721361	teowchye@sp.edu.sg
Mr. Patrick Lee		97828009	patricklee2222@yahoo.com
Dr. Ram (Module Co-ordinator)	T727	67721201	Ram@sp.edu.sg

Mathematics & Science School Office Tel No.: 6772-1221 Fax No.: 6772-1959

1 (15 Oct)	Physical quantities and Vectors
2	Kinematics
3	Kinematics [contd] and Dynamics
4	Dynamics [contd]
5	Work, Energy and Power
6	Work, Energy and Power [contd] and Linear Momentum
7	Revision for MST [MST (25 %) is likely to be on the Friday evening of week 7]
8	MST week
9	Term break
10	Term break
11	Term break
12	Linear Momentum[contd] and Simple Harmonic Motion (SHM)
13	Simple Harmonic Motion (SHM) [contd] and Mechanical Waves
14	Static Electricity
15	Static Electricity [contd]
16	Magnetism
17	Electromagnetism
18	Revision for exams