JAY PRAKASH

Date _____ Page _____

Date :- 07-Sep-2020 Sindhu.S

Course :- Electrodynamics : An introduction 4AH18EC049

5th sem,

Github-Repository :- Sindhu_6565

- Introduction and Basic of electrostatics
  - → Introduction
  - electrical forces and Quantum Mechanical effects
  - electrostatics and gauss' law
  - → Values of phusical constants
- Introduction to electromagnetism
- Introduction to electrodynamics equations (@ Maxwell's)

→ flux of $E = \oint_S E \cdot da = \frac{Q}{\varepsilon_0}$

→ Circulation of E :-

$$\oint_C E \cdot ds = \frac{d}{dt} \int_S B \cdot da$$

- Flux of B :-

$$\oint_S B \cdot da = 0$$

- Circulation of B :-

$$c^2 \int_C B \cdot ds = \frac{d}{dt} \int_S E \cdot da + \frac{1}{\varepsilon_0} \int_S J \cdot da$$