



SRI VASAVI INSTITUTE OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Brain storming

Class: III B.Tech I sem

Subject: EMWTL

A.Y: 2022-23

Topic: Types of Fields

Questions to ask:

General Concepts

1. What is the difference between static fields and time varying fields?
2. What are the types of static fields?
3. What are the sources of static fields?
4. What is the source of time varying fields?

Static fields:

5. What is the source difference between static electric field and static magnetic field?
6. How to find the direction of magnetic field for given current element?
7. How to find the electric field for given charge distribution using Gauss law?
8. How to find the magnetic field due to given current distributions using Ampere's law?
9. What is the significance of Displacement current density? Explain with an example?

Electromagnetic field:

10. How the directions of electric field, magnetic field and wave propagation related to each other?
11. How EM wave behaves in different media?
12. What are the Maxwell's equations for static and time varying fields?
13. What are the applications of EM field?
14. How EM wave propagates from one place to other?

Faculty