Module 3: Magnetic Circuits 4 Hrs

Electromagnetic Induction: Self and mutual;

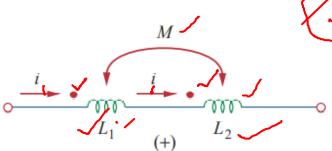
Magnetically coupled circuits; Series and parallel magnetic circuits; Dot convention

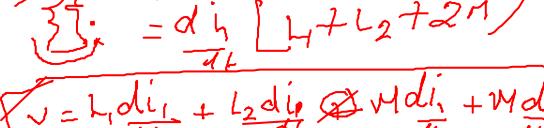
Course Outcome (CO2)

Analyze the parameters of magnetically coupled circuits and compare various types of electrical machines

Coupled coils in series

- Series aiding
- Series opposing



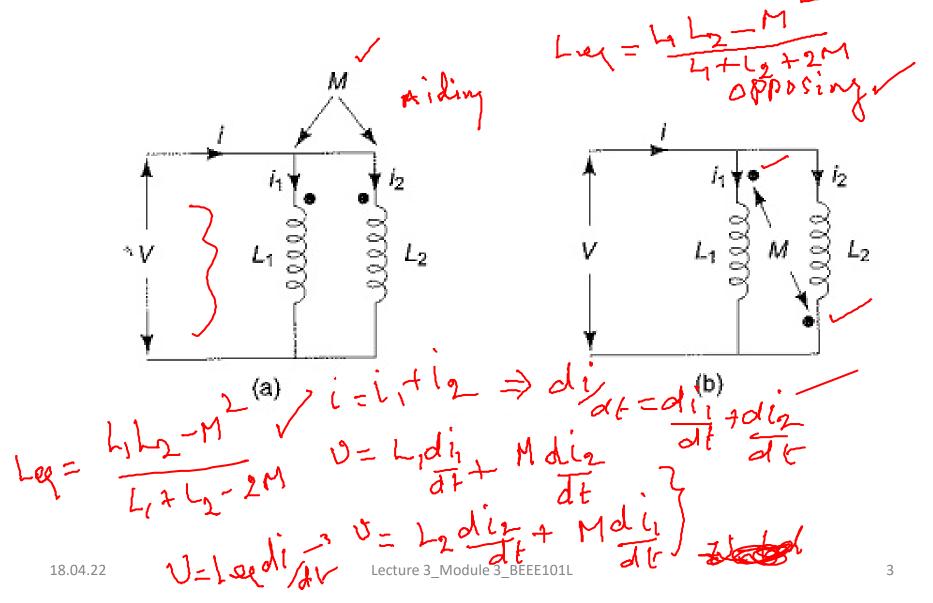


$$L = L_1 + L_2 + 2M$$

$$L = L_1 + L_2 - 2M$$

Leg=1,+12-2M

Coupled circuits in parallel



VI relationship in coupled circuits

