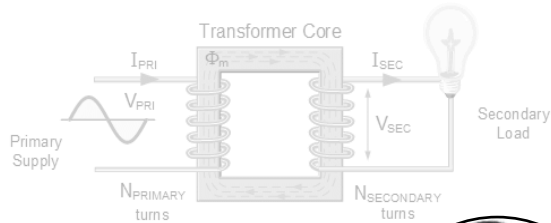




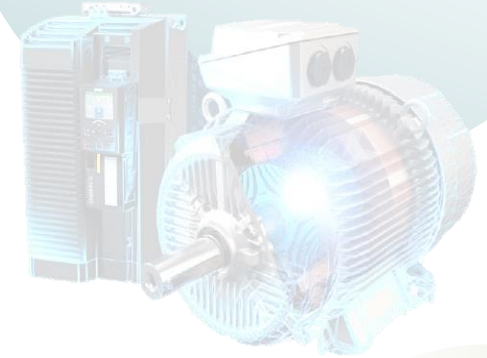
Electrical Machines-I

Course No : EEE 233
Contact Hours : 3.00
Total Credit : 3.00



Course Instructor

Md Toukir Shah
EEE'18, CUET



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Electrical Machines-I

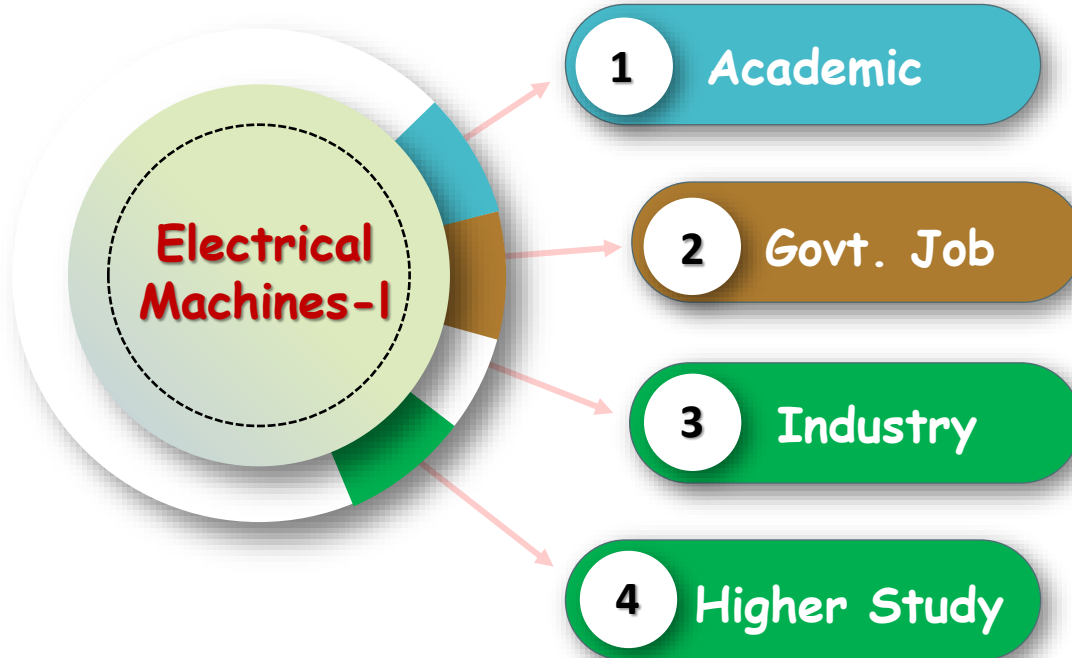
□ Introduction:

- ✓ Why Should We Study Electrical Machines-I?
- ✓ Course Outlines
- ✓ Reference Books
- ✓ What is An Electrical Machine & Types
- ✓ Course Materials



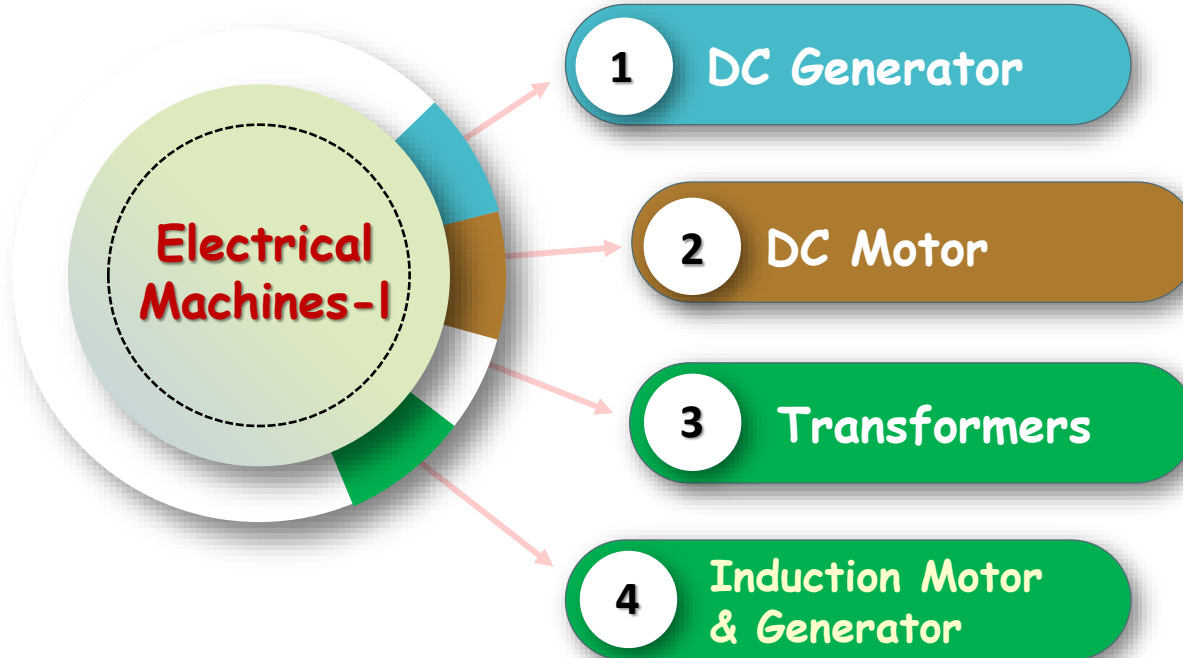


Why Should We Study Electrical Machines-I?





Course Outlines



Electrical Machines-I

❑ Topics to be Covered:

- ✓ DC Generators,
- ✓ DC Motors,
- ✓ Single-phase Transformers,
- ✓ Three-phase Transformers,
- ✓ Autotransformer,
- ✓ Three-phase Induction Motor,
- ✓ Induction Generator.

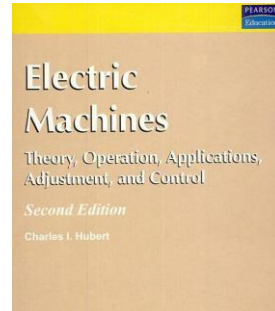
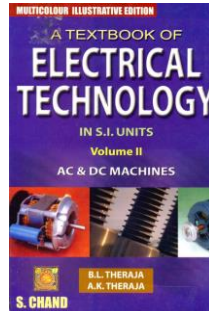




Reference Books



1. **Book-01** : **A Textbook of Electrical Technology Vol. 2**
-By B.L. Theraja and A. K. Theraja
2. **Book-02** : **Electric Machinery Fundamentals (5th Edition)**
-By Stephen Chapman
3. **Book-03** : **Electric Machines: Theory, Operating Applications, and Controls**
-By Charles I. Hubert
4. **Book-04** : **Objective Electrical Technology**
-By V.K Mehta and Rohit Mehta



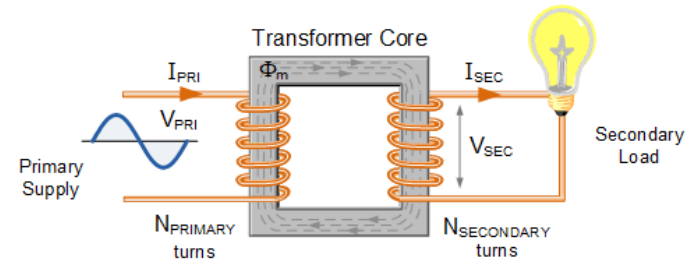
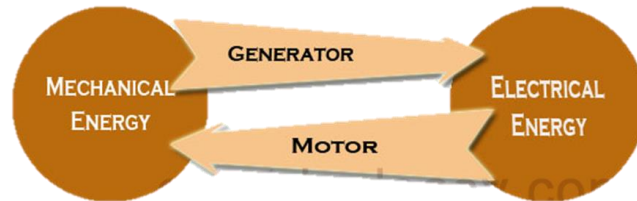
Introduction

- ✓ What is an Electrical Machine?
- ✓ Types of Electrical Machines.

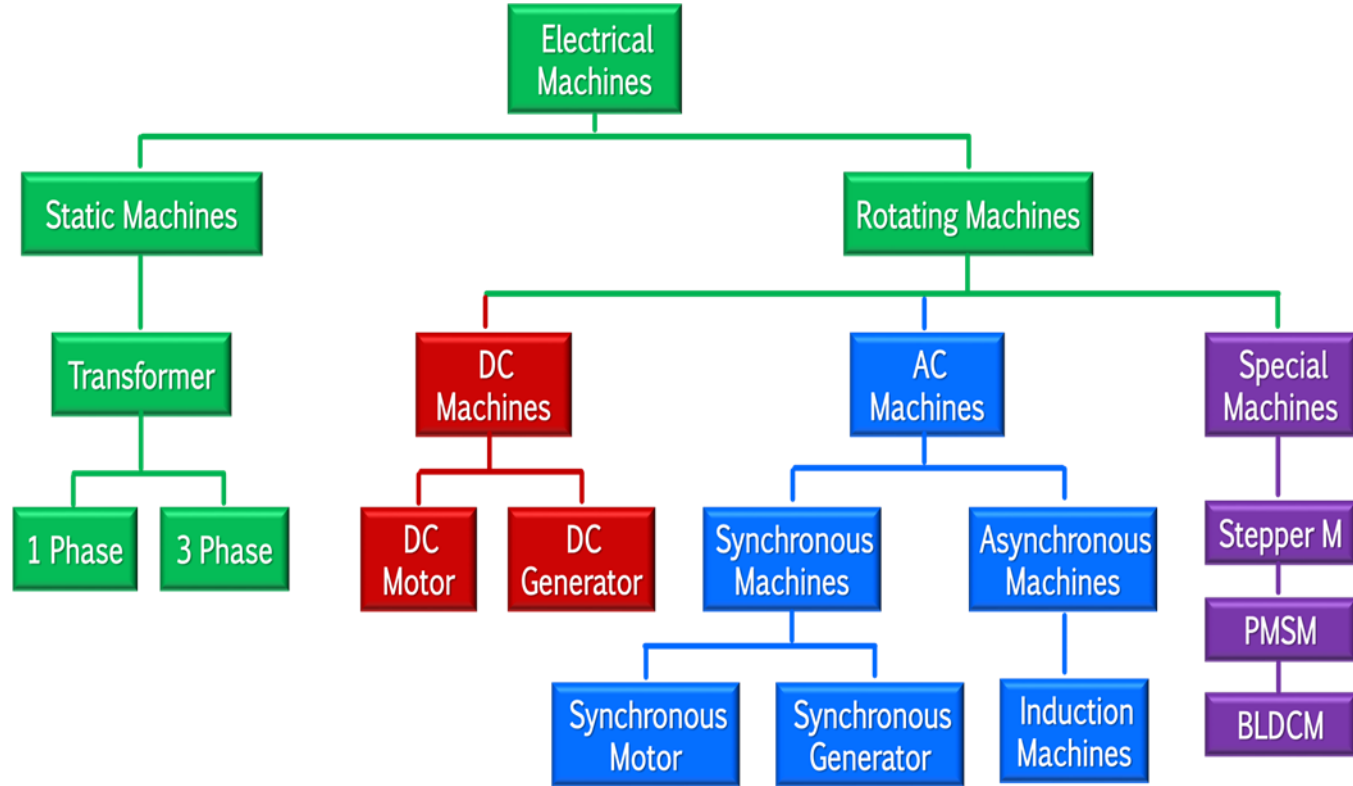
Electrical Machines

What is An Electrical Machine?

- An electrical machine is **a device which converts mechanical energy into electrical energy or vice versa.**
- Electrical machines **also include transformers**, which do not actually make conversion between mechanical and electrical form but they **convert AC current from one voltage level to another voltage level.**



Types of Electrical Machines



Course Materials

- ✓ All Books with Solutions
- ✓ Slides
- ✓ Hand Notes (BL Theraja, VK Mehta, Chapman, Hubert)
- ✓ Solution of Previous Questions



Thank You

