

# SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po]. Coimbatore - 641 107

#### An Autonomous Institution

Accredited by NBA - AICTE and Accredited by NAAC - UGC with 'A' Grade Approved by AICTE. New Delhi & Affiliated to Anna University, Chennai

### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

COURSE NAME: 19EE504 SPECIAL ELECTRICAL MACHINES

III YEAR / Vth SEMESTER EEE

Unit 1 - PMBLDC

By

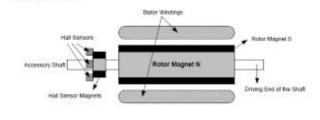
Dr. C. Udhaya Shankar ASP / EEE & Senior Innovator / I-HUB





## Overview

- · BLDC Motor- Introduction
- Mechanical Commutator of DC motors
- · Electronic Commutator of BLDC motor
- · Comparison.



#### **BLDC Motor - Introduction**

- · PM square wave motor
- · Armature winding in stator
- · PM rotor
- Commutation is implemented electronically with a drive amplifier that uses semiconductor switches to change current in the windings based on rotor position feedback.

