



# Dr.J.KARTIGEYAN

**Designation** : Associate Professor & HOD

**Qualification** : B.E., M.Tech., Ph.D.,

**Specialization:** Electrical Drives and Control

**Date of Birth** : 20.11.1982

**Email** : [hodeee@jbiet.edu.in](mailto:hodeee@jbiet.edu.in)

**Contact** : 9489562011

## Work Experience:

- Teaching : 6 Years and 8 Months
- Research : 3 Years and 6 Months
- Industry : NIL
- Others : NIL

## Research Interests:

Switched Reluctance Motor, Magnetic Materials in Electrical Machines

## Recent Publications:

- J.Kartigeyan and M.Ramaswamy, "Fault Tolerance of 12/8 Switched Reluctance Motor Using Fuzzy logic Controller," *International Journal of Scientific & Engineering Research*, Vol. 7(11), pp. 325-330, 2016.
- Kartigeyan and M.Ramaswamy, "Effect of Steel Lamination on Core Losses in Switched Reluctance Motors," *International Journal of Electrical Engineering & Technology*, Vol. 7(6), pp. 64-74, 2016.
- Kartigeyan and M.Ramaswamy, "Effect of Material Properties on Core Loss in Switched Reluctance Motor Using Non-Oriented Electrical Steels," *Journal of Magnetism*, Vol. 22(1), pp. 93-99, 2017. Indexed in both the Science Citation Index-Expanded (SCIE) in the Web of Science and the SCOPUS.
- Kartigeyan and M.Ramaswamy, "Magnetic Materials for Rotating Electrical Machines: A Selection Perspective," *International Journal of Applied Engineering Research*, Vol. 13(2), pp. 1506-1513, 2018. SCOPUS.
- Kartigeyan and M.Ramaswamy, "Core Loss Model for Switched Reluctance Motor in Electric Vehicles", *International Journal of Creative Research Thoughts*, Vol. 6(1), pp. 139-146, 2018.

## Recent Articles Accepted for Publication:

- J.Kartigeyan, M.Ramaswamy and G.Nithya, "Magnetic Performance of 3-phase 12/8 Poles Switched Reluctance Motor", *International Journal for Research in Applied Science and Engineering Technology*.
- J.Kartigeyan, M.Ramaswamy and G.Nithya, "Core Loss Model for Switched Reluctance Motor Using Electrical Steels", *International Journal for Research in Applied Science and Engineering Technology*.

## Recent Communicated Article:

- J.Kartigeyan and M.Ramaswamy, "Effect of Soft Magnetic Materials on Torque Profile of Switched Reluctance Motor for Electric Vehicle," *Pacific Science Review A: Natural Science and Engineering (Elsevier Publishers)*.

## Recent Workshops and Short Term Training Programme Attended:

- Participated in the workshop on **Emerging Trends in Energy Systems Management**, Annamalai University, Chidambaram in 2014.
- Attended short term training programme on **Trends and Issues in Modelling and Design of Digital Systems**, Annamalai University, Chidambaram in 2015.
- Attended workshop on **Emerging Trends in the Operation and Control of Smart Grid**, Annamalai University, Chidambaram in 2016.
- Participated in the workshop on **cRIO for Renewable Energy Applications**, Annamalai University, Chidambaram in 2017.
- Attended workshop on **Emerging Challenges in the Operation and Control of Solar Power Plants**, Annamalai University, Chidambaram in 2018.

## Funding Proposal Submitted:

- J.Kartigeyan, **Modernisation of Electrical Machines Laboratory**, MODROBS, *All India Council for Technical Education*, Amount: Rs. 6, 77, 200 /- , Status: Submitted.

## Projects Guided:

UG: 14

PG: 7