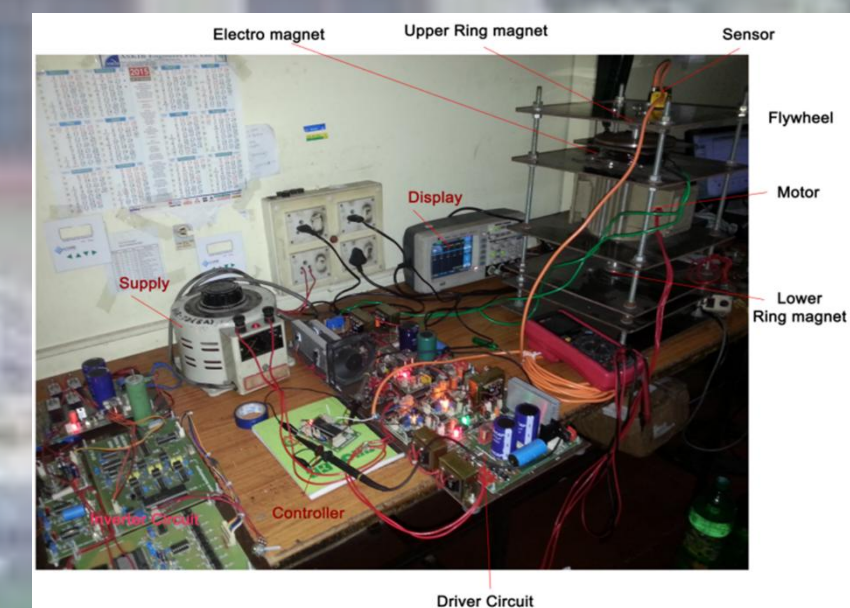


Power Electronics, Machines and Drives

M. Tech and PhD

INDIAN INSTITUTE OF ENGINEERING
SCIENCE AND TECHNOLOGY, SHIBPUR



Faculty Members: 08

No. of seats: 18

GATE Paper: EE, BE/BTECH in EE

RESEARCH AREAS:

1. Power Electronic Converters for Induction Heating, levitation, Welding and WBG-based HF converter
2. Design, development and control of (i) SRM, (ii) PMAC, (iii) Linear machines
3. Electric Machines and Drives for EV, Battery packs, Distributed Generation, FACTS
4. Matrix converter, Z-source converter and wind energy recovery through DFIG
5. Motion Control, Embedded Systems and Power Quality in Power Electronics
6. Topologies and control of Power Electronic Converter, battery chargers and industrial inverters

AREAS OF FOCUS

1. Electric Vehicle
2. Industrial Drives
3. Induction heating and welding
4. Real-time simulation

PROSPECTIVE EMPLOYERS

ALSTOM, GE HEALTHCARE, TI, GLOBAL FOUNDRIES, OLA, BROSE, CROMPTON GREAVES