



**Sandip Foundation's  
Sandip Institute of Technology & Research Centre, Nashik  
Department of Electronics & Telecommunication**

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**Date: 02/04/2015**

**Name of Event:** Expert Lecture on “Power Electronics”.

**Name of Event Co-ordinator:**

Prof. Omkar S. Vaidya  
(Asst. Prof. - E & TC Dept., SITRC, Nashik)

**Name of resource person:**

Dr. D. M. Chandwadkar  
Professor & Head,  
E & TC Dept.,  
KKWIEER, Nashik.

**Name and Address of Company:**

KKWIEER, Amrutdham, Panchwati, Nashik.

**Objectives:**

- To introduce students to different power devices to study their construction, characteristics and turning on circuits.
- To give an exposure to students of working & analysis of controlled rectifiers for different loads, inverters, DC choppers, AC voltage controllers and resonant converters.
- To study the different motor drives, various power electronics applications like UPS, SMPS, etc. and some protection circuits.

**Outcome:**

- Students understood a triggering / gate drive circuit for a power device.
- Students analyzed working of various converters circuits.
- Students came to know various over voltage and over current fault conditions with its circuitry.
- Students compared zero current switching (ZCS) and zero voltage switching (ZVS) resonant converters.

**Photos:**



