



2 -	d2. Work in stressful environment and within constraints.
3 -	d3. Communicate effectively.
4 -	d4. Effectively manage tasks, time, and resources.

#### **Course Topic And Contents :**

Topic	No. of hours	Lecture	Tutorial / Practical
Introduction	5	3	2
Power Electronic Switches	15	9	6
Power loss and thermal analysis	10	6	4
Power electronic converters	25	15	10
Induction motors	20	12	8

#### **Teaching And Learning Methodologies :**

Interactive lectures
Problem-based learning
Experiential learning
Report writing

#### **Course Assessment :**

Methods of assessment	Relative weight %	Week No	Assess What
Assignment	5.00		
final	40.00		
Lab Exper.	10.00		
midterms	30.00		
Participation	5.00		
Quizzes	10.00		

#### **Recommended books :**

1. M. H. Rashid. Power Electronics: Circuits, Devices, and Applications, 4th ed. Pearson Education Inc., 2013 (Text Book).
2. Ned Mohan, Power Electronics: A First Course, John Wiley and Sons Ltd, 2011.
3. Stephan J. Chapman, Electric Machinery Fundamentals, 5th ed, McGraw-Hill Education; 2011.