

Course: Advance power electronics and Control

Course Code: noc19-ee15

Session: 2018-19

Duration: 8 Weeks

Assessment procedures: Weekly Assignment (25%) + proctored certification Exam (75%)

Curriculum of the Course:

Week 1:

- Basic Concept of Switches
- Device Physics

Week 2:

- Device Physics, and Single Phase Converter
- Application and Analysis of Switches
- Single Phase Converter

Week 3 :

- Single Phase Converter
- Three Phase Converter Controlling Anger
- Multipulse Converter
- Effect of Source Inductance and PWM Rectiers

Week 4 :

- PWM Rectiers and
- Power Factor Improvement Techniques
- non- isolated DC- DC converters

Week 5 :

- Non- isolated
- isolated DC- DC Converters
- Choppers

Week 6 :

- Isolated DC- DC Converters IV
- VSI & CSI
- MLI
- ZSI

Week 7 :

- SVM
- AC to AC Converters
- Cyclo converter
- Matrix Converter

Week 8 :

- Linear Control in Power Electronics
- Nonlinear Control in Power Electronics

- Applications
- Conclusions

List of students enrolled

S. No	Name of Student
1	ADIL RAYEES ANSARI
2	Abhishek sharma
3	Tarun
4	Deepak Agrawal
5	ajit kumawat
6	Akshat joshi
7	ANMOL KUMAR JOSHI
8	Rohit Arora
9	Arpit Sharma
10	Avik sharma
11	aman chauhan
12	DARSHAN SHARMA
13	deepanshu mittal
14	Aditya Chauhan
15	ISHANT BHATIA
16	Divyansh Jain
17	Labhesh Jain
18	jayant rajpurohit
19	Kartik tank
20	Harsh Khandelwal
21	Kuldeep singh
22	Ajay kumawat
23	aditya sharma
24	manish faujdar
25	aayushi meena

26	faizuddin ahmed
27	nishpax jain
28	Nitish kumar thapar
29	Pragya jain
30	Pranjali Verma
31	priya gupta
32	rohit jonwal
33	Ravi Shankar verma
34	Sakshi Sharma
35	Yash sharma
36	Shubham Sharma
37	Man mohan singh
38	Unnati
39	VIKAS