


**INSTITUTE OF AERONAUTICAL ENGINEERING**

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

**ELECTRICAL AND ELECTRONICS ENGINEERING**  
**ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT**

Name of the faculty:	<b>Mr. S SRIKANTH</b>	Department:	<b>Electrical and Electronics Engineering</b>
Regulation:	<b>IARE - R18</b>	Batch:	<b>2019-2023</b>
Course Name:	<b>Power Electronics</b>	Course Code:	<b>AEEB20</b>
Semester:	<b>V</b>	Target Value:	<b>60% (1.8)</b>

**Attainment of COs:**

Course Outcome		Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	Explain the static and dynamic characteristics of power semiconductor devices used for power conversion in converter circuits.	3.00	2.50	2.9	Attained
CO2	Select series or parallel connection of SCRs to enhance power handling capacity in real time applications.	0.90	2.50	1.2	Not Attained
CO3	Summarize the various firing circuits and commutation techniques useful for minimizing switching losses of SCRs.	0.30	2.40	0.7	Not Attained
CO4	Demonstrate the working principle of thyristor based ac-dc converters and calculate the performance parameters under various load conditions.	2.30	2.40	2.3	Attained
CO5	Examine the effect of source inductance on the rectifier output while assessing the performance of converters.	0.90	2.40	1.2	Not Attained
CO6	Identify the switching techniques and control strategies of chopper circuit for regulating dc power and perform steady state analysis.	0.90	2.40	1.2	Not Attained

**Action Taken Report: (To be filled by the concerned faculty / course coordinator)**

CO2: Delivering more lectures on series and parallel connection of SCRs

CO3: Provide more real time applications to get understand the performance of ac-dc converters

CO5: Conducting Guest lecture on converters

CO6: Conducting tutorial classes con chopper control techniques

  
Course Coordinator


  
Mentor


  
Head of the Department