SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
M.Tech I Year I Semester Supplementary Examinations February-2025
ELECTRIC DRIVE SYSTEMS
(Power Electronics)

Time: 3 Hours   **Max. Marks: 60**

(Answer all Five Units **5 x 12 = 60** Marks)

UNIT-I

1	Explain briefly about Fundamentals of torque equation.	CO1	L2	12M

OR

2	Derive the expression for torque equation in electrical drives.	CO1	L2	12M

UNIT-II

3	Explain briefly about steady state stability of motor load systems.	CO2	L2	12M

OR

4	What is steady state stability of electric drives and explain it briefly.	CO2	L2	12M

UNIT-III

5	Explain four quadrant DC Motor drive.	CO3	L4	12M

OR

6	Design a current controller of DC Motor Drive?	CO3	L3	12M

UNIT-IV

7	Write the classification of frequency changers and explain.	CO4	L2	12M

OR

8	Describe the speed control of Inverter-Driven induction motor.	CO4	L4	12M

UNIT-V

9	Describe the principle of operation of a switched reluctance motor.	CO5	L2	12M

OR

10	What are the types of electric traction services, Explain briefly?	Co5	L2	12M

*** END ***