MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE (MITS)
(Deemed to be University)
NAAC Accredited with A+ Grade, NIRF India Rankings 2025 - Band: 201-300 (Engg.)
NBA Accredited - B.Tech. (CIVIL, CSE, ECE, EEE, MECH,CST), MBA & MCA



SDG 7

AFFORDABLE AND CLEAN ENERGY

CURRICULUM MAPPING

SDG 7 — CURRICULUM MAPPING REGISTER

R25, R23 Curriculum mapping

S. No	Course Code	Name of the Course	SDG	Department / Programme
1	25BAEEETC02	Basic Electrical and Electronics Engineering	7	CIVIL, EEE, ECE, MECH, Bioinformatics
2	25BAEEELC01	Basic Electrical and Electronics Engineering Laboratory	7	CIVIL, EEE, ECE, MECH
3	25MBVESDC04	Low Power VLSI Design	7	M.Tech VLSI
4	25BACIVTC02	Introduction to Environment and Sustainability	7	B.Tech CSE (Cyber Security), Civil, EEE, ECE, MECH, others
5	25BAEEETC01	Fundamentals of Electrical Energy Systems	7	EEE
6	25BAEEETC04	Electric Circuit Analysis	7	EEE
7	25BAEEETC05	DC Machines and Transformers	7	EEE
8	25BAEEELC02	DC Machines and Transformers Laboratory	7	EEE
9	25BAEEETC09	AC Rotating Machines	7	EEE
10	25BAEEELC05	AC Rotating Machines Laboratory	7	EEE
11	25BAEEELC08	Power Electronics Laboratory	7	EEE
12	25BAEEETC12	Transmission and Distribution of Electrical Power	7	EEE
13	25BAEEETC13	Power System Analysis	7	EEE
14	25BAEEETC14	Electric Vehicle Technology	7	EEE
15	25BAEEELC09	Power System Simulation Laboratory	7	EEE
16	25BAEEELC10	Electric Vehicle Laboratory	7	EEE

S. No	Course Code	Name of the Course	SDG	Department / Programme
17	25BAEEETC15	Solid State Drives and Control	7	EEE
18	25BAEEETC16	Smart Grid	7	EEE
19	25BAEEELC11	Electrical Drives Laboratory	7	EEE
20	25BAEEEDC03	Energy Storage Technology	7	EEE
21	25BAEEEDC07	Power and Energy Management	7	EEE
22	25BAEEEDC13	Energy Efficient Lighting System	7	EEE
23	25BAEEEDC14	Power System Design	7	EEE
24	25BAEEEDC17	High Voltage Transmission Systems	7	EEE
25	25BAMECTC03	Engineering Thermodynamics	7	MECH
26	25BAMECTC08	Fluid Mechanics and Hydraulic Machines	7	MECH
27	25BAMECLC05	Fluid Mechanics and Hydraulic Machines Laboratory	7	MECH
28	25BAMECTC11	Heat Transfer	7	MECH
29	25BAMECLC07	Heat Transfer Laboratory	7	MECH
30	25BAMECTC12	Electric Vehicles and Battery Management	7	MECH
31	25BAMECTC13	Thermal Engineering	7	MECH
32	25BAMECLC09	Thermal Engineering Laboratory	7	MECH
33	25BAMECDC01	Refrigeration and Air Conditioning	7	MECH
34	25BAMECDC02	Renewable Energy Systems	7	MECH

S. No	Course Code	Name of the Course	SDG	Department / Programme
35	25BAMECDC10	Power Plant Engineering	7	MECH
36	25BAMECDC15	Waste to Energy Conversion Technologies	7	MECH
37	25BAECEDC01	Low Power VLSI	7	ECE
38	23CHE901	Environmental Science	7	CIVIL
39	25MBEVTTC01	Electric Vehicle System Architecture	7	M.Tech EVT
40	25MBEVTTC02	Power Electronic Converters	7	M.Tech EVT
41	25MBEVTLC01	EV Simulation and Modeling Laboratory	7	M.Tech EVT
42	25MBEVTLC02	Power Electronic Converters Laboratory	7	M.Tech EVT
43	25MBEVTTC03	EV Motor Drives and Control	7	M.Tech EVT
44	25MBEVTLC03	EV Motor Drives and Control Laboratory	7	M.Tech EVT
45	25MBEVTTC05	EVs in Smart Grid	7	M.Tech EVT
46	25MBEVTDC01	Energy Storage Devices and Systems	7	M.Tech EVT
47	25MBEVTDC02	Battery Management System	7	M.Tech EVT
48	25MBEVTDC03	Thermal Management of EV systems	7	M.Tech EVT
49	25MBEVTDC04	Control Systems for Electric Vehicle	7	M.Tech EVT
50	25MBEVTDC09	Life-Cycle Analysis for EV	7	M.Tech EVT
51	25MBEVTDC11	Battery Charging Infrastructure	7	M.Tech EVT
52	25MBEVTDC12	EV Standards and Testing	7	M.Tech EVT
53	25MBEVTDM04	Intelligent Controllers for Power Quality Enhancement	7	M.Tech EVT