



MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

(UGC-AUTONOMOUS INSTITUTION)

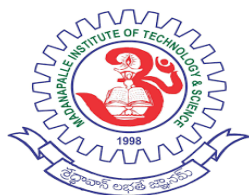
Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi
NAAC Accredited with A+ Grade, NIRF India Rankings 2024 - Band: 201-300 (Engg.)
NBA Accredited - B.Tech. (CIVIL, CSE, ECE, EEE, MECH,CST), MBA & MCA



7 AFFORDABLE AND
CLEAN ENERGY



CURRICULUM



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B. Tech (R20,R23) Regulation Curriculum			SDG linked to the Curriculum	
S.No	Course Code	Course Name	SDG Mapped	Department
1	23CHE901	Environmental Science	7	CIVIL
2	20ECE416	Digital Image and Video Processing	7	ECE
3	20ECE417	Wireless Sensor Networks	7	
4	20ECE418	Satellite Communication	7	
5	20ECE420	RFICs	7	
6	20ECE602	Sensors and Instrumentation	7	
7	20ECE603	MATLAB for Engineers	7	
8	20ECE604	PCB Designing	7	
9	20ECE608	Internet of Things	7	
10	20ECE111	VLSI Design	7	
11	20ECE112	Antenna and Microwave Engineering	7	
12	20ECE113	Digital Communication	7	
13	20ECE209	VLSI Design Laboratory	7	
14	20ECE210	Microwave Engineering Laboratory	7	
15	20ECE211	Digital Communication Laboratory	7	
16	20ECE401	Nano Electronics	7	
17	20ECE402	Electronics Packaging and Testing	7	

18	20ECE405	Embedded Systems	7	
19	20ECE406	Fiber Optic Communication	7	
20	20ECE407	Software for Embedded Systems	7	
21	20ECE408	Wireless Communication	7	
22	20ECE409	FPGA Based System Design	7	
23	20ECE410	Cognitive Radio	7	
24	20ECE411	Pattern Recognition and its Applications	7	
25	20ECE412	Mobile Communication Networks	7	
26	20ECE413	RADAR Engineering	7	
27	20ECE414	Speech and Audio Processing	7	
28	20ME103	Basic Thermodynamics	7	MECH
29	20ME105	Fluid Mechanics and Hydraulic Machinery	7	
30	20ME111	Heat Transfer	7	
31	20ME209	Thermal Engineering Laboratory	7	
32	20ME410	Renewable Energy Systems	7	
33	20ME411	Carbon Footprint Estimation and Reduction	7	
34	20ME412	Electric Vehicle Technology	7	
35	20CSE112	Machine Learning	7	
36	20CSE114	Internet of Things	7	
37	20CSE210	Machine Learning Laboratory	7	
38	20CSE212	Internet of Things Laboratory	7	
39	20CSE401	Cryptography and Network Security	7	
40	20CSE402	Real-Time Operating Systems	7	
41	20CSE403	Artificial Intelligence	7	

42	20CSE404	Web Technologies	7
43	20CSE405	Digital Image Processing	7
44	20CSE406	Data Warehousing and Data Mining	7
45	20CSE407	Data Visualization Techniques	7
46	20CSE409	Network Design and Technologies	7
47	20CSE411	DevOps	7
48	20CSE413	Deep Learning	7
49	20CSE417	Big Data Analytics	7
50	20CSE423	Reinforcement Learning	7
51	20CSE604	Python for Data Science	7
52	20CSE605	Full Stack Development	7
53	20CSE606	AI Tools, Techniques, and Applications	7
54	20CSE607	Blockchain Architecture	7
55	20EEE101	Basic Electrical Engineering	
56	20EEE102	Electrical Circuit Analysis	
57	20EEE104	DC Machines and Transformers	
58	20EEE109	Power Systems – I	
59	20EEE110	Power Electronics	
60	20EEE208	Power System – I Laboratory	
61	20EEE112	Measurements and Transducers	
62	20EEE113	Signals and Systems	
63	20EEE114	Power Systems – II (Analysis)	
64	20EEE210	Measurements and Transducers Laboratory	
65	20EEE211	Power Systems – II Laboratory	

CSE

66	20EEE212	Power Electronics Laboratory		EEE	
67	20EEE401	Modern Control Systems			
68	20EEE402	Industrial Electrical Systems			
69	20EEE404	Electrical Safety			
70	20EEE405	Electrical and Hybrid Vehicles			
71	20EEE406	Electrical Drives and Control			
72	20EEE407	Energy Audit and Conservation Management			
73	20EEE413	Smart Power Grid			
74	20EEE414	Power System Operation and Control			
75	20EEE415	Wind and Solar Energy Systems			
76	20EEE416	Power Quality			
77	20EEE601	Electrical Home			
78	20EEE603	Internet of Things			
79	20EEE604	Programming for Electrical Eng.			
80	0CSE101	Programming for Problem Solving (Python)			CSE(DS)
81	20CSE102	C Programming and Data Structures			
82	20CSD108	Python for Data Science			
83	20CSD112	Machine Learning			
84	20CSD113	Big Data Analytics			
85	20CSD114	Deep Learning			
86	20CSD215	Robotics			