



ADITYA ENGINEERING COLLEGE

An Autonomous Institution

Approved by AICTE • Permanently Affiliated to JNTUK • Accredited by NAAC with 'A' Grade
Recognised by UGC under sections 2(f) and 12(B) of UGC Act, 1956

Aditya Nagar, ADB Road, Surampalem - 533437, Near Kakinada, E.G.Dt., Ph:99498 76662

LIST OF CHOICE BASED/ ELECTIVE COURSES OFFERED DURING THE ACADEMIC YEAR 2021- 22

S.No	Program Code	Programme Name	No of Elective courses offered
1	01	B. Tech. Civil Engineering	32
2	02	B. Tech. Electrical and Electronics Engineering	35
3	03	B. Tech. Mechanical Engineering	41
4	04	B. Tech. Electronics and Communication Engineering	30
5	05	B. Tech. Computer Science and Engineering	20
6	12	B. Tech. Information Technology	12
7	26	B. Tech. Mining Engineering	29
8	27	B. Tech. Petroleum Technology	28
9	35	B. Tech Agricultural Engineering	26
10	87	M. Tech. (Structural Engineering)	19
11	52	M. Tech. (Power Electronics and Drives)	21
12	21	M. Tech. (Thermal Engineering)	25
13	72	M. Tech. (VLSI Design)	19
14	58	M. Tech. (Computer Science & Engineering)	18
15	8	M. Tech. (Petroleum Engineering)	14
16	1E	MBA	39
17	1M	IMBA	36
18	1F	MCA	26
19		Common Elective courses (Various combination of Programs)	22
TOTAL			492


CONVENOR

ACADEMIC COMMITTEE


PRINCIPAL
ADITYA ENGINEERING COLLEGE
SURAMPALAM - 533 437


PRINCIPAL

PRINCIPAL
Aditya Engineering College
SURAMPALAM



ADITYA ENGINEERING COLLEGE

An Autonomous Institution

Approved by AICTE • Permanently Affiliated to JNTUK • Accredited by NAAC with 'A' Grade
Recognised by UGC under sections 2(f) and 12(B) of UGC Act, 1956

Aditya Nagar, ADB Road, Surampalem - 533437, Near Kakinada, E.G.Dt., Ph:99498 76662

LIST OF ELECTIVE COURSES OFFERED IN THE ACADEMIC YEAR 2021-2022.

S. No	Semester	Course type	Course Code	Course Name	Offered by
1	V	Professional Elective-I	191CE5E02	Construction Technology & Management	B.Tech CE
2	V	Professional Elective-I	191CE5E04	Subsurface Investigation and Instrumentation	B.Tech CE
3	V	Professional Elective-I	191CE5E01	Airport Planning and Design	B.Tech CE
4	V	Professional Elective-I	191CE5E05	Urban Hydrology	B.Tech CE
5	V	Professional Elective-I	191CE5E03	Environmental Pollution and Control	B.Tech CE
6	VI	Professional Elective -II	191CE6E10	Repair and Rehabilitation of Structures	B.Tech CE
7	VI	Professional Elective -II	191CE6E07	Ground Improvement Techniques	B.Tech CE
8	VI	Professional Elective -II	191CE6E09	Railway Engineering	B.Tech CE
9	VI	Professional Elective -II	191CE6E08	Hydropower Development	B.Tech CE
10	VI	Professional Elective -II	191CE6E06	Air Pollution Engineering.	B.Tech CE
11	VI	Professional Elective -III	191CE6E13	Finite Element Methods	B.Tech CE
12	VI	Professional Elective -III	191CE6E12	Expansive Soils	B.Tech CE


PRINCIPAL

ADITYA ENGINEERING COLLEGE
SURAMPALAM - 533 437

S. No	Semester	Course type	Course Code	Course Name	Offered by
13	VI	Professional Elective –III	191CE6E11	Docks and Harbour Engineering	B.Tech CE
14	VI	Professional Elective –III	191CE6E15	Water Resources System Analysis	B.Tech CE
15	VI	Professional Elective –III	191CE6E14	Industrial Waste & Waste-Water Engineering	B.Tech CE
16	VII	Professional Elective – IV	171CE7E10	Advanced Structural Engineering	B.Tech CE
17	VII	Professional Elective – IV	171CE7E11	Watershed Management	B.Tech CE
18	VII	Professional Elective – IV	171CE7E12	Design of Tall Buildings	B.Tech CE
19	VII	Professional Elective – V	171CE7E13	Bridge Engineering	B.Tech CE
20	VII	Professional Elective – V	171CE7E14	Environmental Impact Assessment and Management	B.Tech CE
21	VII	Professional Elective – V	171CE7E15	Water Resources Systems Planning	B.Tech CE
22	VIII	Professional Elective – VI	171CE8E16	Urban Transportation Planning Engineering	B.Tech CE
23	VIII	Professional Elective – VI	171CE8E17	Soil Dynamics and Foundations	B.Tech CE
24	VIII	Professional Elective – VI	171CE8E18	Solid And Hazardous Waste Management	B.Tech CE
25	VIII	Professional Elective – VI	171CE8E19	Air Pollution and Control	B.Tech CE
26	VIII	Open Elective	171CE8O01	Electronic Instrumentation	B.Tech CE
27	VIII	Open Elective	171CE8O02	Database Management Systems	B.Tech CE
28	VIII	Open Elective	171CE8O03	Alternative Energy Sources	B.Tech CE

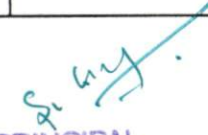

PRINCIPAL
CITY ENGINEERING COLLEGE
RAMPALAM - 533 437

S. No	Semester	Course type	Course Code	Course Name	Offered by
29	VIII	Open Elective	171CE8O04	Waste Water Management	B.Tech CE
30	VIII	Open Elective	171CE8O05	Fundamentals of Liquefied Natural Gas	B.Tech CE
31	VIII	Open Elective	171CE8O06	Green Fuel Technologies	B.Tech CE
32	VIII	Open Elective	171CE8O07	Green Engineering Systems	B.Tech CE
33	V	Professional Elective-I	191EE5E03	Renewable energy systems	B.Tech EEE
34	V	Professional Elective-I	191EE5E02	Electrical Machine Modeling and Analysis	B.Tech EEE
35	V	Professional Elective-I	191EE5E01	Advanced Control Systems	B.Tech EEE
36	V	Open Elective I	191EE5O01	Electrical Safety	B.Tech EEE
37	V	Open Elective I	191EE5O02	Electrical Materials	B.Tech EEE
38	V	Open Elective I	191EE5O03	Basic Electrical Measurements	B.Tech EEE
39	VI	Professional Elective-II	191EE6E07	Electrical Distribution Systems	B.Tech EEE
40	VI	Professional Elective-II	191EE6E05	Advanced Power Electronics Converters	B.Tech EEE
41	VI	Professional Elective-II	191EE6E06	Digital Control Systems	B.Tech EEE
42	VI	Professional Elective-II	191EE6E08	Energy Audit, Conservation & Management	B.Tech EEE
43	VI	Professional Elective-III	191EE6E11	High Voltage Transmission	B.Tech EEE
44	VI	Professional Elective-III	191EE6E12	Switched mode power Converters	B.Tech EEE


PRINCIPAL

ADITYA ENGINEERING COLLEGE
SURAMPALEM - 533 437

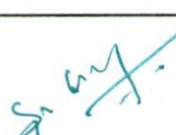
S. No	Semester	Course type	Course Code	Course Name	Offered by
45	VI	Professional Elective-III	191EE6E09	Control Systems Design	B.Tech EEE
46	VI	Professional Elective-III	191EE6E10	Electrical Safety	B.Tech EEE
47	VI	Open Elective II	191EE6O04	Energy Audit and Conservation Management	B.Tech EEE
48	VI	Open Elective II	191EE6O05	Non-Conventional Energy resources	B.Tech EEE
49	VI	Open Elective II	191EE6O06	Instrumentation	B.Tech EEE
50	VII	Professional Elective – IV	171EE7E11	Optimization Techniques	B.Tech EEE
51	VII	Professional Elective – IV	171EE7E12	Digital Signal Processing	B.Tech EEE
52	VII	Professional Elective – IV	171EE7E13	Special Electrical Machines	B.Tech EEE
53	VII	Professional Elective – V	171EE7E14	High Voltage Engineering	B.Tech EEE
54	VII	Professional Elective – V	171EE7E15	Electric Power Quality	B.Tech EEE
55	VII	Professional Elective – V	171EE7E16	EHVAC Transmission	B.Tech EEE
56	VII	Professional Elective – VI	171EE8E17	HVDC Transmission	B.Tech EEE
57	VII	Professional Elective – VI	171EE8E18	Flexible AC Transmission Systems	B.Tech EEE
58	VIII	Professional Elective – VI	171EE8E19	Power System Reforms	B.Tech EEE
59	VIII	Professional Elective – VI	171EE8E20	Digital Control Systems	B.Tech EEE
60	VIII	Open Elective	171EE8O01	Energy Audit, Conservation and Management	B.Tech EEE


PRINCIPAL
ADITYA ENGINEERING COLLEGE
SURAMPALEM - 533 437

S. No	Semester	Course type	Course Code	Course Name	Offered by
61	VIII	Open Elective	171EE8O02	VLSI Design	B.Tech EEE
62	VIII	Open Elective	171EE8O03	Unix and Shell Programming	B.Tech EEE
63	VIII	Open Elective	171EE8O04	Neural Networks And Fuzzy Logic	B.Tech EEE
64	VIII	Open Elective	171EE8O05	Robotics	B.Tech EEE
65	VIII	Open Elective	171EE8O06	Vehicular Electric Power Systems	B.Tech EEE
66	VIII	Open Elective	171EE8O07	Internet of Things	B.Tech EEE
67	VIII	Open Elective	171EE8O08	Cyber Security	B.Tech EEE
68	V	Professional Elective-I	191ME5E01	Automobile Engineering	B.Tech ME
69	V	Professional Elective-I	191ME5E02	Composite Materials	B.Tech ME
70	V	Professional Elective-I	191ME5E03	Fluid Engineering	B.Tech ME
71	V	Professional Elective-I	191ME5E04	Mechanical Vibrations	B.Tech ME
72	V	Professional Elective-I	191ME5E05	Metrology & Instrumentation	B.Tech ME
73	V	Professional Elective-I	191ME5E06	Organizational Behaviour	B.Tech ME
74	V	Open Elective-I	191ME5O01	Renewable Energy Sources	B.Tech ME
75	V	Open Elective-I	191ME5O02	Fundamentals of Mechanical Engineering	B.Tech ME
76	V	Open Elective-I	191ME5O03	Supply Chain Management	B.Tech ME


 PRINCIPAL
 ADITYA ENGINEERING COLLEGE
 SURAMPALAM - 533 437

S. No	Semester	Course type	Course Code	Course Name	Offered by
77	V	Open Elective-I	191ME5O04	3D Printing	B.Tech ME
78	V	Open Elective-I	191ME5O05	Entrepreneurship Development and incubation	B.Tech ME
79	VI	Professional Elective-II	191ME6E07	Industrial Engineering and Management	B.Tech ME
80	VI	Professional Elective-II	191ME6E08	Mechatronics	B.Tech ME
81	VI	Professional Elective-II	191ME6E09	Non-Destructive Evaluation	B.Tech ME
82	VI	Professional Elective-II	191ME6E10	Refrigeration and Air Conditioning	B.Tech ME
83	VI	Professional Elective-II	191ME6E11	Robotics	B.Tech ME
84	VI	Professional Elective-III	191ME6E12	Additive Manufacturing	B.Tech ME
85	VI	Professional Elective-III	191ME6E13	Alternative Fuels	B.Tech ME
86	VI	Professional Elective-III	191ME6E14	Design for Manufacturing	B.Tech ME
87	VI	Professional Elective-III	191ME6E15	Green Engineering Systems	B.Tech ME
88	VI	Professional Elective-III	191ME6E16	Lean Manufacturing	B.Tech ME
89	VI	Open Elective-II	191ME6O06	Solar Energy Utilization	B.Tech ME
90	VI	Open Elective-II	191ME6O07	Basic Thermodynamics and Heat Transfer	B.Tech ME
91	VI	Open Elective-II	191ME6O08	Introduction to hydraulics and pneumatics	B.Tech ME
92	VI	Open Elective-II	191ME6O10	Robotics	B.Tech ME


 PRINCIPAL
 ADITYA ENGINEERING COLLEGE
 SURAMPALEM - 533 437

S. No	Semester	Course type	Course Code	Course Name	Offered by
93	VI	Open Elective-II	191ME6O11	Management Science	B.Tech ME
94	VI	Open Elective-II	191ME6O09	3D Printing	B.Tech ME
95	VI	Open Elective-II	191ME6O12	Entrepreneurship Development and incubation	B.Tech ME
96	VII	Professional Elective-IV	171ME7E10	Computational Fluid Dynamics	B.Tech ME
97	VII	Professional Elective-IV	171ME7E11	Green Engineering Systems	B.Tech ME
98	VII	Professional Elective-IV	171ME7E12	Nano Materials and Technology	B.Tech ME
99	VII	Professional Elective-V	171ME7E13	Gas Dynamics	B.Tech ME
100	VII	Professional Elective-V	171ME7E14	Condition Monitoring	B.Tech ME
101	VII	Professional Elective-V	171ME7E15	Flexible Manufacturing Systems	B.Tech ME
102	VIII	Professional Elective-VI	171ME8E16	Production Planning and Control	B.Tech ME
103	VIII	Professional Elective-VI	171ME8E17	Advanced Materials	B.Tech ME
104	VIII	Professional Elective-VI	171ME8E18	Thermal Equipment Design	B.Tech ME
105	VIII	Open Elective	171ME8O01	Java Programming	B.Tech ME
106	VIII	Open Elective	171ME8O02	Electrical Safety Management	B.Tech ME
107	VIII	Open Elective	171ME8O03	Entrepreneur Resource Planning	B.Tech ME
108	VIII	Open Elective	171ME8O04	Computer Graphics	B.Tech ME


PRINCIPAL
ADITYA ENGINEERING COLLEGE
SURAMPALEM - 533 437

S. No	Semester	Course type	Course Code	Course Name	Offered by
109	V	Professional Elective-I	191EC5E03	Electromagnetic Interference & Compatibility	B.Tech ECE
110	V	Professional Elective-I	191EC5E01	Computer System Architecture	B.Tech ECE
111	V	Professional Elective-I	191EC5E02	Digital System Design-I	B.Tech ECE
112	V	Professional Elective-I	191EC5E04	Python Programming	B.Tech ECE
113	V	Open Elective -I	191EC5O01	Signals & Systems	B.Tech ECE
114	V	Open Elective -I	191EC5O02	Digital Electronics and Logic Design	B.Tech ECE
115	V	Open Elective -I	191EC5O03	Semi conductor devices	B.Tech ECE
116	VI	Professional Elective -II	191EC6E07	Information Theory and Coding	B.Tech ECE
117	VI	Professional Elective -II	191EC6E06	Embedded Systems	B.Tech ECE
118	VI	Professional Elective -II	191EC6E05	Digital System Design-II	B.Tech ECE
119	VI	Professional Elective -II	191EC6E08	Soft Computing Techniques	B.Tech ECE
120	VI	Professional Elective -III	191EC6E11	Radar Systems	B.Tech ECE
121	VI	Professional Elective -III	191EC6E10	Embedded C	B.Tech ECE
122	VI	Professional Elective -III	191EC6E09	Design for Testability	B.Tech ECE
123	VI	Professional Elective -III	191EC6E12	Signal Transform Techniques	B.Tech ECE
124	VI	Open Elective -II	191EC6O04	Biomedical Instrumentation	B.Tech ECE

S. No	Semester	Course type	Course Code	Course Name	Offered by
125	VI	Open Elective -II	191EC6O05	ECAD Tools	B.Tech ECE
126	VII	Professional Elective -IV	171EC7E10	Digital Signal Processors	B.Tech ECE
127	VII	Professional Elective -IV	171EC7E11	Embedded Systems	B.Tech ECE
128	VII	Professional Elective -IV	171EC7E12	Cellular and Mobile Communications	B.Tech ECE
129	VII	Professional Elective - V	171EC7E13	Analog IC Design	B.Tech ECE
130	VII	Professional Elective -V	171EC7E14	Cryptography and Network Security	B.Tech ECE
131	VII	Professional Elective -V	171EC7E15	Radar Systems	B.Tech ECE
132	VIII	Professional Elective -VI	171EC8E16	Mixed Signal IC Design	B.Tech ECE
133	VIII	Professional Elective -VI	171EC8E17	Wireless Sensors and Networks	B.Tech ECE
134	VIII	Professional Elective -VI	171EC8E18	Satellite Communications	B.Tech ECE
135	VIII	Open Elective	171EC8O01	Basic Concrete Technology	B.Tech ECE
136	VIII	Open Elective	171EC8O02	Disaster Management	B.Tech ECE
137	VIII	Open Elective	171EC8O03	Neural Networks	B.Tech ECE
138	VIII	Open Elective	171EC8O04	Web Technologies	B.Tech ECE
139	V	Professional Elective-I	191CS5E04	Functional and Logic Programming	B.Tech CSE. IT
140	V	Professional Elective-I	191CS5E01	Advanced Computer Architecture	B.Tech CSE. IT



PRINCIPAL

ADITYA ENGINEERING COLLEGE
SURAMPALEM - 533 437

S. No	Semester	Course type	Course Code	Course Name	Offered by
141	V	Professional Elective-I	191CS5E02	Artificial Intelligence	B.Tech CSE. IT
142	V	Professional Elective-I	191CS5E05	Software Requirement and Estimation	B.Tech CSE. IT
143	V	Professional Elective-I	191CS5E03	Computer Graphics	B.Tech CSE. IT
144	V	Open Elective I	191CS5O01	Data Structures	B.Tech CSE
145	V	Open Elective I	191CS5O02	Object Oriented Programming through C++	B.Tech CSE
146	V	Open Elective I	191CS5O03	Java Programming	B.Tech CSE
147	V	Open Elective I	191CS5O04	R Programming	B.Tech CSE
148	VI	Professional Elective-II	191CS6E09	Scripting languages	B.Tech CSE. IT
149	VI	Professional Elective-II	191CS6E06	Advance Operating Systems	B.Tech CSE. IT
150	VI	Professional Elective-II	191CS6E08	Machine Learning	B.Tech CSE. IT
151	VI	Professional Elective-II	191CS6E10	Software Testing Methodologies	B.Tech CSE. IT
152	VI	Professional Elective-II	191CS6E07	Image Processing	B.Tech CSE. IT
153	VI	Professional Elective-III	191CS6E11	C# .Net	B.Tech CSE. IT
154	VI	Professional Elective-III	191CS6E13	Distributed Systems	B.Tech CSE. IT
155	VI	Professional Elective-III	191CS6E14	Natural Language Processing	B.Tech CSE. IT
156	VI	Professional Elective-III	191CS6E15	Software Quality Assurance	B.Tech CSE. IT

S. No	Semester	Course type	Course Code	Course Name	Offered by
157	VI	Professional Elective-III	191CS6E12	Cloud Computing	B.Tech CSE. IT
158	VI	Open Elective II	191CS6O05	Python Programming	B.Tech CSE
159	VI	Open Elective II	191CS6O06	Operating Systems	B.Tech CSE
160	VI	Open Elective II	191CS6O07	Web Technologies	B.Tech CSE
161	VI	Open Elective II	191CS6O08	Cyber Security	B.Tech CSE
162	VI	Open Elective II	191CS6O09	AR/VR	B.Tech CSE
163	VII	Professional Elective –IV	171CS7E13	Software Project Management	B.Tech CSE, IT
164	VII	Professional Elective –IV	171CS5E14	Big Data Analytics	B.Tech CSE
165	VII	Professional Elective –IV	171CS7E15	Image Processing	B.Tech CSE, IT
166	VII	Professional Elective –IV	171CS7E16	Cyber Laws	B.Tech CSE, IT
167	VII	Professional Elective – V	171CS7E18	Artificial Intelligence and Machine Learning	B.Tech CSE
168	VII	Professional Elective – V	171CS7E19	Information Retrieval Systems	B.Tech CSE. IT
169	VII	Professional Elective – V	171CS7E20	Mobile Computing	B.Tech CSE
170	VIII	Professional Elective – VI	171CS8E21	Agile Methodologies	B.Tech CSE. IT
171	VIII	Professional Elective – VI	171CS8E22	Cyber Security	B.Tech CSE. IT
172	VIII	Professional Elective – VI	171CS8E23	Distributed Databases	B.Tech CSE. IT

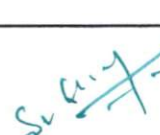

PRINCIPAL
ADITYA ENGINEERING COLLEGE
SURAMPalem - 533 437

S. No	Semester	Course type	Course Code	Course Name	Offered by
173	VIII	Professional Elective – VI	171CS8E24	Distributed Systems	B.Tech CSE
174	VIII	Open Elective	171CS8O01	Microprocessor and Multi Core Systems	B.Tech CSE
175	VIII	Open Elective	171CS8O02	Embedded Systems	B.Tech CSE
176	VIII	Open Elective	171CS8O03	Soft Computing	B.Tech CSE
177	VIII	Open Elective	171CS8O04	Operations Research	B.Tech CSE
178	VIII	Open Elective	171CS8O05	Optical Communications	B.Tech CSE
179	VIII	Open Elective	171CS8O06	Renewable Energy sources	B.Tech CSE
180	VIII	Open Elective	171CS8O07	Nano Technology and its Applications	B.Tech CSE
181	V	Open Elective-I	191IT5O01	Data Base Management Systems	B.Tech IT
182	V	Open Elective-I	191IT5O02	Computer Graphics	B.Tech IT
183	VI	Open Elective-II	191IT6O03	Computer Organization	B.Tech IT
184	VI	Open Elective-II	191IT6O04	AI Tools & Techniques	B.Tech IT
185	VI	Open Elective-II	191IT6O05	Robotic Process Automation	B.Tech IT
186	VII	Professional Elective-IV	171IT7E06	Machine Learning	B.Tech IT
187	VII	Professional Elective-V	171IT7E07	Human Computer Interaction	B.Tech IT
188	VII	Professional Elective-V	171IT7E08	Distributed Systems	B.Tech IT

S. No	Semester	Course type	Course Code	Course Name	Offered by
189	VII	Professional Elective-V	171IT7E09	Decision Support System	B.Tech IT
190	VIII	Professional Elective-VI	171IT8E10	Pattern Recognition	B.Tech IT
191	VIII	Open Elective	171IT8O01	Management Information System	B.Tech IT
192	VIII	Open Elective	171IT8O02	Computer Vision	B.Tech IT
193	V	Professional Elective-I	191PT5E03	Well Engineering and Design	B.Tech PT
194	V	Professional Elective-I	191PT5E02	Pipeline Engineering	B.Tech PT
195	V	Professional Elective-I	191PT5E01	Natural Gas Engineering and Processing	B.Tech PT
196	V	Open Elective -I	191PT5O01	Process Intensification in Petroleum Industry	B.Tech PT
197	V	Open Elective -I	191PT5O02	Fundamentals of Petroleum Industry	B.Tech PT
198	VI	Professional Elective -II	191PT6E06	Well Completions, Testing and Services	B.Tech PT
199	VI	Professional Elective -II	191PT6E05	Operational and Maintenance of Pipelines	B.Tech PT
200	VI	Professional Elective -II	191PT6E04	Fundamentals of Liquefied Natural gas	B.Tech PT
201	VI	Professional Elective -II	191PT7E09	Unconventional Hydrocarbon Resources	B.Tech PT
202	VI	Professional Elective -III	191PT7E08	Storage and Transportation of Crude oil and Natural gas	B.Tech PT
203	VI	Professional Elective -III	191PT7E07	Advanced Separation Techniques	B.Tech PT
204	VI	Open Elective -II	191PT6O03	Unconventional Hydrocarbon Resources	B.Tech PT


 PRINCIPAL
 ADITYA ENGINEERING COLLEGE
 SURAMPALAM - 533 437

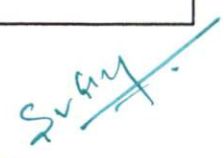
S. No	Semester	Course type	Course Code	Course Name	Offered by
205	VI	Open Elective –II	191PT6O04	Asset Management	B.Tech PT
206	VII	Professional Elective – IV	171PT7E10	Coal Bed Methane	B.Tech PT
207	VII	Professional Elective – IV	171PT7E11	Offshore Engineering	B.Tech PT
208	VII	Professional Elective – IV	171PT7E12	Petroleum Corrosion Technology	B.Tech PT
209	VII	Professional Elective – V	171PT7E13	Shale Gas Reservoir Engineering	B.Tech PT
210	VII	Professional Elective – V	171PT7E14	Subsea Engineering	B.Tech PT
211	VII	Professional Elective – V	171PT7E15	Reservoir Modeling and Simulation	B.Tech PT
212	VIII	Professional Elective – VI	171PT8E16	HSE and FE in Petroleum Industry	B.Tech PT
213	VIII	Professional Elective – VI	171PT8E17	Reliability and Risk Management in Petroleum Operations	B.Tech PT
214	VIII	Professional Elective – VI	171PT8E18	Deep Sea Production Systems	B.Tech PT
215	VIII	Open Elective	171PT8O01	Green Technologies	B.Tech PT
216	VIII	Open Elective	171PT8O02	Non-Conventional Sources of Energy	B.Tech PT
217	VIII	Open Elective	171PT8O03	Alternative Energy Sources for Automobiles	B.Tech PT
218	VIII	Open Elective	171PT8O04	Waste Water Treatment	B.Tech PT
219	VIII	Open Elective	171PT8O05	Computational Fluid Dynamics	B.Tech PT
220	VIII	Open Elective	171PT8O06	Process Intensification in Petroleum Industry	B.Tech PT


PRINCIPAL
ADITYA ENGINEERING COLLEGE
SURAMPalem - 533 437

S. No	Semester	Course type	Course Code	Course Name	Offered by
221	V	Professional Elective-I	191AG5E01	Engineering Properties of Biological Materials	B.Tech Ag.E
222	V	Professional Elective-I	191AG5E02	Mechanical Measurement and Instrumentation	B.Tech Ag.E
223	V	Professional Elective-I	191AG5E03	Theory of Structures	B.Tech Ag.E
224	V	Open Elective-I	191AG5O01	Basic Crop Production Practices	B.Tech Ag.E
225	VI	Professional Elective-II	191AG6E06	Human Engineering and Safety	B.Tech Ag.E
226	VI	Professional Elective-II	191AG6E04	Agricultural Structures	B.Tech Ag.E
227	VI	Professional Elective-II	191AG6E05	Agro Industries and By- Product Utilization	B.Tech Ag.E
228	VI	Professional Elective-III	191AG6E07	Design of Agricultural Machinery	B.Tech Ag.E
229	VI	Professional Elective-III	191AG6E09	Watershed Planning and Management	B.Tech Ag.E
230	VI	Professional Elective-III	191AG6E08	Seed Processing and Storage Engineering	B.Tech Ag.E
231	VI	Open Elective-II	191AG6O02	Weather Forecast in Agriculture	B.Tech Ag.E
232	VI	Open Elective-II	191AG6O03	Bio-Energy Systems Design and Applications	B.Tech Ag.E
233	VII	Professional Elective-IV	171AG7E09	Seed Processing and Storage Engineering	B.Tech Ag.E
234	VII	Professional Elective-IV	171AG7E10	Food Processing Plant Design and Layout	B.Tech Ag.E
235	VII	Professional Elective-IV	171AG7E11	Food Packaging Technology	B.Tech Ag.E
236	VII	Professional Elective-V	171AG7E12	Aqua Cultural Engineering	B.Tech Ag.E


PRINCIPAL
ADITYA ENGINEERING COLLEGE
SURAMPALEM - 533 437

S. No	Semester	Course type	Course Code	Course Name	Offered by
237	VII	Professional Elective-V	171AG7E13	Soil Dynamics in Tillage and Traction	B.Tech Ag.E
238	VII	Professional Elective-V	171AG7E14	Computational Fluid Dynamics	B.Tech Ag.E
239	VIII	Professional Elective-VI	171AG8E15	Hydraulic Devices and Control	B.Tech Ag.E
240	VIII	Professional Elective-VI	171AG8E16	Watershed Management	B.Tech Ag.E
241	VIII	Professional Elective-VI	171AG8E17	Design of Agricultural Machinery	B.Tech Ag.E
242	VIII	Open Elective	171AG8O01	Digital Control systems	B.Tech Ag.E
243	VIII	Open Elective	171AG8O02	Industrial Pollution Control Engineering	B.Tech Ag.E
244	VIII	Open Elective	171AG8O03	Mechatronics	B.Tech Ag.E
245	VIII	Open Elective	171AG8O04	Water Resources Systems Planning and Management	B.Tech Ag.E
246	VIII	Open Elective	171AG8O05	Image Processing Techniques	B.Tech Ag.E
247	V	Professional Elective-I	191MI5E02	Environmental Impact Assessment	B.Tech Min.E
248	V.	Professional Elective-I	191MI5E03	Planning of Underground Coal Mining Project	B.Tech Min.E
249	V	Professional Elective-I	191MI5E04	Sustainable Mining	B.Tech Min.E
250	V	Professional Elective-I	191MI5E01	Drilling & Blasting	B.Tech Min.E
251	V	Open Elective-I	19MI5O01	Overview of Mining	B.Tech Min.E
252	VI	Professional Elective-II	191MI6E06	Mine Health & Safety Engineering	B.Tech Min.E


PRINCIPAL
ADITYA ENGINEERING COLLEGE
SURAMPALEM - 533 437

S. No	Semester	Course type	Course Code	Course Name	Offered by
253	VI	Professional Elective-II	191MI6E07	Planning of Underground Metal Mining Project	B.Tech Min.E
254	VI	Professional Elective-II	191MI6E05	Green Mining	B.Tech Min.E
255	VI	Professional Elective-II	191MI6E08	Rock Fragmentation Engineering	B.Tech Min.E
256	VI	Professional Elective-III	191MI6E10	Environmental Pollution & Control	B.Tech Min.E
257	VI	Professional Elective-III	191MI6E11	Planning of Surface Mining Project	B.Tech Min.E
258	VI	Professional Elective-III	191MI6E09	Deep Sea Mining	B.Tech Min.E
259	VI	Professional Elective-III	191MI6E12	Rock Excavation Engineering	B.Tech Min.E
260	VI	Open Elective-II	191MI6O02	Industrial Safety Practices	B.Tech Min.E
261	VI	Open Elective-II	191MI6O03	Electrical Equipment's in Mines	B.Tech Min.E
262	VII	Professional Elective-IV	171MI7E10	Planning of UGMM Project	B.Tech Min.E
263	VII	Professional Elective-IV	171MI7E11	Planning of UGCM Project	B.Tech Min.E
264	VII	Professional Elective-IV	171MI7E12	Planning of Surface Mining Project	B.Tech Min.E
265	VII	Professional Elective-V	171MI7E13	Mine Mechanization	B.Tech Min.E
266	VII	Professional Elective-V	171MI7E14	Advance Underground Coal Mining Technology	B.Tech Min.E
267	VII	Professional Elective-V	171MI7E15	Mine Blasting operation	B.Tech Min.E
268	VIII	Professional Elective-VI	171MI8E16	Mine Systems Engineering	B.Tech Min.E


PRINCIPAL
ADITYA ENGINEERING COLLEGE
SURAMPALEM - 533 437

S. No	Semester	Course type	Course Code	Course Name	Offered by
269	VIII	Professional Elective-VI	171MI8E17	Advance Surface Mining Technology	B.Tech Min.E
270	VIII	Professional Elective-VI	171MI8E18	Advance Underground metal mining Technology	B.Tech Min.E
271	VIII	Open Elective	171MI8O01	Environmental Impact Assessment	B.Tech Min.E
272	VIII	Open Elective	171MI8O02	Mine Closure and Reclamation	B.Tech Min.E
273	VIII	Open Elective	171MI8O03	Fundamentals of Communication	B.Tech Min.E
274	VIII	Open Elective	171MI8O04	Remote Sensing and GIS	B.Tech Min.E
275	VIII	Open Elective	171MI8O05	Quantitative Decision Making	B.Tech Min.E
276	I	Professional Elective -I	192TE1E01	Advanced IC Engines, Electric and Hybrid vehicles	M.Tech TE
277	I	Professional Elective -I	192TE1E02	Gas Dynamics	M.Tech TE
278	I	Professional Elective -I	192TE1E03	Cryogenic Engineering	M.Tech TE
279	I	Professional Elective -I	192TE1E04	Advanced Thermodynamics	M.Tech TE
280	I	Professional Elective -II	192TE1E05	Gas Turbines	M.Tech TE
281	I	Professional Elective -II	192TE1E06	Alternative Fuel Technologies	M.Tech TE
282	I	Professional Elective -II	192TE1E07	Energy Conservation and Management	M.Tech TE
283	I	Professional Elective -II	192TE1E08	Theory and Technology of Fuel Cells	M.Tech TE
284	II	Professional Elective -III	192TE2E09	Equipment Design for Thermal Systems	M.Tech TE


PRINCIPAL
ADITYA ENGINEERING COLLEGE
SURAMPalem - 533 437

S. No	Semester	Course type	Course Code	Course Name	Offered by
285	II	Professional Elective -III	192TE2E10	Solar Energy Technologies	M.Tech TE
286	II	Professional Elective -III	192TE2E11	Advanced Power Plant Engineering	M.Tech TE
287	II	Professional Elective -III	192TE2E12	Combustion, Emissions and Environment	M.Tech TE
288	II	Professional Elective -IV	192TE2E13	Jet propulsion and Rocket Engineering	M.Tech TE
289	II	Professional Elective -IV	192TE2E14	Automotive Engineering	M.Tech TE
290	II	Professional Elective -IV	192TE2E15	Modeling of I.C.Engines	M.Tech TE
291	II	Professional Elective -IV	192TE2E16	Renewable Energy Technologies	M.Tech TE
292	III	Professional Elective -V	192TE3E17	Optimization Techniques and Applications	M.Tech TE
293	III	Professional Elective -V	192TE3E18	Design and Analysis of Experiments	M.Tech TE
294	III	Professional Elective -V	192TE3E19	Convective Heat Transfer	M.Tech TE
295	III	Professional Elective -V	192TE3E20	Waste to Energy	M.Tech TE
296	III	Open Elective	192TE3O01	Energy Systems	M.Tech TE
297	III	Open Elective	192TE3O02	Fuels& Combustion	M.Tech TE
298	III	Open Elective	192TE3O03	Green Engineering Technology	M.Tech TE
299	III	Open Elective	192TE3O04	IC Engines	M.Tech TE
300	III	Open Elective	192TE3O05	Automotive Technology	M.Tech TE

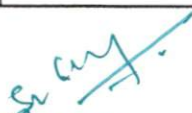

 PRINCIPAL
 ADITYA ENGINEERING COLLEGE
 SURAMPALEM - 533 437

S. No	Semester	Course type	Course Code	Course Name	Offered by
301	I	Professional Elective – I	192PD1E01	Modern Control Theory	M.Tech PD
302	I	Professional Elective – I	192PD1E02	Power Quality and Custom Power Devices	M.Tech PD
303	I	Professional Elective – I	192PD1E03	Programmable Logic Controllers & Applications	M.Tech PD
304	I	Professional Elective – II	192PD1E04	Artificial Intelligence Techniques	M.Tech PD
305	I	Professional Elective – II	192PD1E05	Renewable Energy Technologies	M.Tech PD
306	I	Professional Elective – II	192PD1E06	HVDC Transmission and Flexible AC Transmission Systems	M.Tech PD
307	II	Professional Elective – III	192PD2E07	Control & Integration of Renewable Energy Systems	M.Tech PD
308	II	Professional Elective – III	192PD2E08	Hybrid Electric Vehicles	M.Tech PD
309	II	Professional Elective – III	192PD2E09	Digital Control Systems	M.Tech PD
310	II	Professional Elective – IV	192PD2E10	Advanced Digital Signal Processing	M.Tech PD
311	II	Professional Elective – IV	192PD2E11	Applications of Power Converters	M.Tech PD
312	II	Professional Elective – IV	192PD2E12	Microcontrollers	M.Tech PD
313	III	Professional Elective – V	192PD3E13	Digital Signal Processing Controlled Drives	M.Tech PD
314	III	Professional Elective – V	192PD3E14	Smart Grid Technologies	M.Tech PD
315	III	Professional Elective – V	192PD3E15	Modeling & Simulation of Power Electronic Systems	M.Tech PD
316	III	Open Elective	192PD3O01	Renewable Energy Technologies	M.Tech PD

S. No	Semester	Course type	Course Code	Course Name	Offered by
317	III	Open Elective	192PD3O02	Hybrid Electric Vehicles	M.Tech PD
318	III	Open Elective	192PD3O03	Energy Audit and conservation Management	M.Tech PD
319	III	Open Elective	192PD3O04	Neural Networks and Fuzzy Logic	M.Tech PD
320	III	Open Elective	192PD3O05	Industrial Safety	M.Tech PD
321	III	Open Elective	192PD3O06	Composite Materials	M.Tech PD
322	I	Professional Elective-I	192CS1E01	Big Data Analytics	M.Tech CSE
323	I	Professional Elective-I	192CS1E02	Digital Image Processing	M.Tech CSE
324	I	Professional Elective-I	192CS1E03	Advanced Operating Systems	M.Tech CSE
325	I	Professional Elective-II	192CS1E04	Advanced Computer Networks	M.Tech CSE
326	I	Professional Elective-II	192CS1E05	Internet of Things	M.Tech CSE
327	I	Professional Elective-II	192CS1E06	Object Oriented Software Engineering	M.Tech CSE
328	II	Professional Elective-III	192CS2E07	Advanced Databases and Mining	M.Tech CSE
329	II	Professional Elective-III	192CS2E08	Ad Hoc & Sensor Networks	M.Tech CSE
330	II	Professional Elective-III	192CS2E09	Soft Computing	M.Tech CSE
331	II	Professional Elective-IV	192CS2E10	Cloud Computing	M.Tech CSE
332	II	Professional Elective-IV	192CS2E11	Principles of computer security	M.Tech CSE


PRINCIPAL
ADITYA ENGINEERING COLLEGE
SURAMPalem - 533 437

S. No	Semester	Course type	Course Code	Course Name	Offered by
333	II	Professional Elective-IV	192CS2E12	High Performance Computing	M.Tech CSE
334	III	Professional Elective-V	192CS3E13	Deep Learning	M.Tech CSE
335	III	Professional Elective-V	192CS3E14	Social Network Analysis	M.Tech CSE
336	III	Open Elective	192CS3O01	Python Programming	M.Tech CSE
337	III	Open Elective	192CS3O02	Principles of Cyber Security	M.Tech CSE
338	III	Open Elective	192CS3O03	Internet of Things	M.Tech CSE
339	III	Open Elective	192CS3O04	Machine Learning	M.Tech CSE
340	I	Professional Elective – I	192VD1E01	VLSI Technology	M.Tech VLSI
341	I	Professional Elective – I	192VD1E02	Nano materials and Nanotechnology	M.Tech VLSI
342	I	Professional Elective – I	192VD1E03	MEMS Technology	M.Tech VLSI
343	I	Professional Elective – II	192VD1E04	Device Modelling	M.Tech VLSI
344	I	Professional Elective – II	192VD1E05	Nano-Electronics	M.Tech VLSI
345	I	Professional Elective – II	192VD1E06	Photonics	M.Tech VLSI
346	II	Professional Elective – III	192VD2E07	Design For Testability	M.Tech VLSI
347	II	Professional Elective – III	192VD2E08	IoT & Its Applications	M.Tech VLSI
348	II	Professional Elective – III	192VD2E09	VLSI Signal Processing	M.Tech VLSI


PRINCIPAL
ADITYA ENGINEERING COLLEGE
SURAMPALEM - 533 437

S. No	Semester	Course type	Course Code	Course Name	Offered by
349	II	Professional Elective – IV	192VD2E10	Microcontrollers & programmable Digital Signal Processors	M.Tech VLSI
350	II	Professional Elective – IV	192EM2E11	Network Security & Cryptography	M.Tech VLSI
351	II	Professional Elective – IV	192VD2E11	Low Power VLSI Design	M.Tech VLSI
352	III	Professional Elective – V	192VD3E12	Scripting Languages for VLSI	M.Tech VLSI
353	III	Professional Elective – V	192VD3E13	Digital System Design & Verification	M.Tech VLSI
354	III	Professional Elective – V	192EM3E14	Hardware Software co-design	M.Tech VLSI
355	III	Open Elective	192ES3O02	Digital System Design	M.Tech VLSI
356	III	Open Elective	192VD3O01	Physical Design Automation	M.Tech VLSI
357	III	Open Elective	192VD3O02	VLSI Technology	M.Tech VLSI
358	III	Open Elective	192VD3O03	Nano-electronics	M.Tech VLSI
359	I	Professional Elective - I	192ST1E01	Matrix Analysis of Structures	M.Tech ST
360	I	Professional Elective - I	192ST1E02	Analytical & Numerical Meth for Structural Engineering	M.Tech ST
361	I	Professional Elective - I	192ST1E03	Design of RCC Foundations	M.Tech ST
362	I	Professional Elective - II	192ST1E04	Bridge Engineering	M.Tech ST
363	I	Professional Elective - II	192ST1E05	Repair and Rehabilitation of Structures	M.Tech ST
364	I	Professional Elective - II	192ST1E06	Advanced Reinforced Concrete Design	M.Tech ST


 PRINCIPAL
 ADITYA ENGINEERING COLLEGE
 SURAMPALEM - 533 437

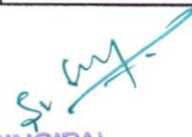
S. No	Semester	Course type	Course Code	Course Name	Offered by
365	II	Professional Elective – III	192ST2E07	Stability of Structures	M.Tech ST
366	II	Professional Elective – III	192ST2E08	Advanced Steel Design	M.Tech ST
367	II	Professional Elective – III	192ST2E09	Analysis of Offshore Structures	M.Tech ST
368	II	Professional Elective – IV	192ST2E10	Earthquake Resistant Design of Buildings	M.Tech ST
369	II	Professional Elective – IV	192ST2E11	Precast and Prefabricated Structures	M.Tech ST
370	II	Professional Elective – IV	192ST2E12	Earth Retaining Structures	M.Tech ST
371	III	Professional Elective – V	192ST3E13	Design of Pre-stressed Concrete structures	M.Tech ST
372	III	Professional Elective – V	192ST3E14	Structural Health Monitoring	M.Tech ST
373	III	Professional Elective – V	192ST3E15	Industrial Structures	M.Tech ST
374	III	Open Elective	19ST3O01	Repair and Rehabilitation of Structures	M.Tech ST
375	III	Open Elective	19ST3O02	Green Building Systems	M.Tech ST
376	III	Open Elective	19ST3O03	Basic Concrete Technology	M.Tech ST
377	III	Open Elective	19ST3O04	Basic Foundation Engineering	M.Tech ST
378	I	Professional Elective – I	192PE1E01	Advanced Numerical Methods and Applied Statistics	M.Tech PE
379	I	Professional Elective – I	192PE1E02	CBM& Shale Gas Engineering	M.Tech PE
380	I	Professional Elective – II	192PE1E03	Transportation of Oil and Gas	M.Tech PE


PRINCIPAL
ADITYA ENGINEERING COLLEGE
SURAMPALEM - 533 437

S. No	Semester	Course type	Course Code	Course Name	Offered by
381	I	Professional Elective – II	192PE1E04	Advanced Well Logging Techniques & Well Testing Analysis	M.Tech PE
382	II	Professional Elective – III	192PE2E05	Advanced EOR Techniques	M.Tech PE
383	II	Professional Elective – III	192PE2E06	Advanced Well Completions	M.Tech PE
384	II	Professional Elective – IV	192PE2E07	Flow Assurance	M.Tech PE
385	II	Professional Elective – IV	192PE2E08	Advanced Horizontal Well Technology	M.Tech PE
386	III	Open Elective	192PE3O01	Introduction to Petroleum Engineering	M.Tech PE
387	III	Open Elective	192PE3O02	Process Intensification	M.Tech PE
388	III	Open Elective	192PE3O03	Fundamentals of Liquefied Natural Gas	M.Tech PE
389	III	Open Elective	192PE3O04	Subsea Engineering	M.Tech PE
390	III	Open Elective	192PE3O05	Geology	M.Tech PE
391	III	Open Elective	192PE3O06	HSE in Petroleum Industry	M.Tech PE
392	I	Open Elective-I	194MB1O01	Cross Cultural Management.	MBA
393	I	Open Elective-I	194MB1O02	Rural Innovation Projects.	MBA
394	I	Open Elective-I	194MBMOO C1	MOOCs: SWAYAM/NPTEL (related to Management Courses other than listed courses in the	MBA
395	II	Open Elective-II	194MB2O04	Project Management	MBA


PRINCIPAL
ADITYA ENGINEERING COLLEGE
SURAMPALEM - 533 437

S. No	Semester	Course type	Course Code	Course Name	Offered by
396	II	Open Elective-II	194MB2O05	Technology Management	MBA
397	II	Open Elective-II	194MB2O06	Lean Management.	MBA
398	II	Open Elective-II	194MB2O07	Data base Management System	MBA
399	III	Elective-I	194HR3E01	Leadership and Change Management	MBA
400	III	Elective-I	194FI3E01	Analysis and Portfolio Management	MBA
401	III	Elective-I	194MA3E01	Consumer Behavior	MBA
402	III	Elective-I	194SY 3E01	Data Mining for Business Decisions	MBA
403	III	Elective-II	194HR3E02	Performance Evaluation and Compensation Management	MBA
404	III	Elective-II	194FI3E02	Managing Banks and Financial Institutions	MBA
405	III	Elective-II	194MA3E02	Retail Management	MBA
406	III	Elective-II	194SY3E02	Managing Software Projects	MBA
407	III	Elective-III	194HR3E03	Human Capital Management	MBA
408	III	Elective-III	194FI3E03	Financial Markets and Services	MBA
409	III	Elective-III	194MA 3E03	Strategic Marketing Management	MBA
410	III	Elective-III	194SY 3E03	Web Designing	MBA


PRINCIPAL
ADITYA ENGINEERING COLLEGE
SURAMPalem - 533 437

S. No	Semester	Course type	Course Code	Course Name	Offered by
411	III	Elective-IV	194HR 3E04	Manpower Planning, Recruitment, and Selection	MBA
412	III	Elective-IV	194FI3E04	Taxation	MBA
413	III	Elective-IV	194MA 3E04	Digital and Social Media Marketing	MBA
414	III	Elective-IV	194SY 3E04	Business Analytics	MBA
415	IV	Elective-V	194HR4E05	Labour Welfare and employment laws	MBA
416	IV	Elective-V	194FI4E05	Financial Derivatives	MBA
417	IV	Elective-V	194MA4E05	Services Marketing	MBA
418	IV	Elective-V	194SY4E05	Big Data Analytics	MBA
419	IV	Elective-VI	194HR4E06	International HRM	MBA
420	IV	Elective-VI	194FI4E06	Global Financial Management	MBA
421	IV	Elective-VI	194MA4E06	Promotional and Distribution Management	MBA
422	IV	Elective-VI	194SY4E06	Enterprise Resource Planning	MBA
423	IV	Elective-VII	194HR4E07	Employee Relations and Engagement	MBA
424	IV	Elective-VII	194FI4E07	Risk Management	MBA
425	IV	Elective-VII	194MA4E07	Green Marketing	MBA


 PRINCIPAL
 ADITYA ENGINEERING COLLEGE
 SURAMPalem - 533 437

S. No	Semester	Course type	Course Code	Course Name	Offered by
426	IV	Elective-VII	194SY4E07	Cyber Laws & Security	MBA
427	IV	Elective-VIII	194HR 4E08	Strategic HRM	MBA
428	IV	Elective-VIII	194FI4E08	Behavioral Finance	MBA
429	IV	Elective-VIII	194MA4E08	Global Marketing Management	MBA
430	IV	Elective-VIII	194SY4E08	Artificial Intelligence and Machine Learning	MBA
431	VII	Elective-I	175HR7E01	Human Resource Planning	IMBA
432	VII	Elective-I	175FI7E01	Security Analysis	IMBA
433	VII	Elective-I	175MA7E01	Consumer Behavior	IMBA
434	VII	Elective-I	175SY7E01	E-Business	IMBA
435	VII	Elective-II	175HR7E02	Leadership Management	IMBA
436	VII	Elective-II	175FI7E02	Banking and Insurance Management	IMBA
437	VII	Elective-II	175MA7E02	Rural Marketing	IMBA
438	VII	Elective-II	175SY7E02	Relational Database Management Systems	IMBA
439	VII	Elective-III	175HR7E03	Compensation and Reward Management	IMBA
440	VII	Elective-III	175FI7E03	Advanced Management Accounting	IMBA


PRINCIPAL
ADITYA ENGINEERING COLLEGE
SURAMPALEM - 533 437

S. No	Semester	Course type	Course Code	Course Name	Offered by
441	VII	Elective-III	175MA7E03	Supply Chain Management	IMBA
442	VII	Elective-III	175SY7E03	Web Designing (full stack)	IMBA
443	VIII	Elective-IV	175HR8E04	Performance Management	IMBA
444	VIII	Elective-IV	175FI8E04	Strategic Financial Management	IMBA
445	VIII	Elective-IV	175MA8E04	Customer Relationship Management	IMBA
446	VIII	Elective-IV	175SY8E04	System Analysis & Design	IMBA
447	VIII	Elective-V	175HR8E05	Strategic Human Resource Management	IMBA
448	VIII	Elective-V	175FI8E05	Portfolio Management	IMBA
449	VIII	Elective-V	175MA8E05	Strategic Marketing Management	IMBA
450	VIII	Elective-V	175SY8E05	Business Intelligence	IMBA
451	VIII	Elective-VI	175HR8E06	Organizational Development & Change Management	IMBA
452	VIII	Elective-VI	175FI8E06	Financial Markets and Services	IMBA
453	VIII	Elective-VI	175MA8E06	Services Marketing	IMBA
454	VIII	Elective-VI	175SY8E06	Enterprise Resource Planning	IMBA
455	IX	Elective-VII	175HR9E07	Global Human Resource Management	IMBA


PRINCIPAL
ADITYA ENGINEERING COLLEGE
SURAMPALEM - 533 437

S. No	Semester	Course type	Course Code	Course Name	Offered by
456	IX	Elective-VII	175FI9E07	Global Financial Management	IMBA
457	IX	Elective-VII	175MA9E07	Promotion and Distribution Management	IMBA
458	IX	Elective-VII	175SY9E07	Cyber Laws & Security	IMBA
459	IX	Elective-VIII	175HR9E08	Labour Welfare & Legislation	IMBA
460	IX	Elective-VIII	175FI9E08	Risk Management	IMBA
461	IX	Elective-VIII	175MA9E08	Global Marketing Management	IMBA
462	IX	Elective-VIII	175SY9E08	Information Systems & Audit	IMBA
463	IX	Elective-IX	175HR9E09	Management of Industrial Relations	IMBA
464	IX	Elective-IX	175FI9E09	Tax Management	IMBA
465	IX	Elective-IX	175MA9E09	Retail Marketing	IMBA
466	IX	Elective-IX	175SY9E09	SAP	IMBA
467	II	Professional Elective-I	203MC2E01	No SQL Databases	MCA
468	II	Professional Elective-I	203MC2E02	Design and Analysis of Algorithms	MCA
469	II	Professional Elective-I	203MC2E03	Mobile Application Development	MCA
470	II	Professional Elective-I	203MC2E04	Artificial Intelligence	MCA

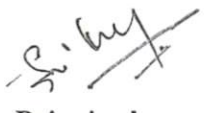

PRINCIPAL
ADITYA ENGINEERING COLLEGE
SURAMPALEM - 533 437

S. No	Semester	Course type	Course Code	Course Name	Offered by
471	II	Professional Elective-I	203MC2E05	Accounting for Managers	MCA
472	III	Professional Elective –II	203MC3E06	Soft Computing	MCA
473	III	Professional Elective –II	203MC3E07	Software Project Management	MCA
474	III	Professional Elective –II	203MC3E08	Cloud Computing	MCA
475	III	Professional Elective –II	203MC3E09	Optimization Techniques	MCA
476	III	Professional Elective –II	203MC3E10	Cyber Security	MCA
477	IV	Professional Elective –III	203MC4E11	Digital Marketing	MCA
478	IV	Professional Elective –III	203MC4E12	Human Resource Management	MCA
479	IV	Professional Elective –III	203MC4E13	Deep Learning	MCA
480	IV	Professional Elective –III	203MC4E14	Ad-hoc and Sensor Networks	MCA
481	IV	Professional Elective –III	203MC4S01	MOOCs-1 (NPTEL/SWAYAM)	MCA
482	IV	Professional Elective – IV	203MC4E15	Network Programming	MCA
483	IV	Professional Elective – IV	203MC4E16	Block Chain technologies	MCA
484	IV	Professional Elective – IV	203MC4E17	Software Testing Methodologies	MCA
485	IV	Professional Elective – IV	203MC4E18	Big Data Analytics	MCA


PRINCIPAL
ADITYA ENGINEERING COLLEGE
SURAMPalem - 533 437

S. No	Semester	Course type	Course Code	Course Name	Offered by
486	IV	Professional Elective – IV	203MC4S02	MOOCs-2 (NPTEL/SWAYAM)	MCA
487	V	Professional Elective – V	193MC5E07	Digital Marketing	MCA
488	V	Professional Elective – V	193MC5E08	Natural Language Processing	MCA
489	V	Professional Elective – V	193MC5E09	MOOCs-3 (NPTEL/SWAYAM)	MCA
490	V	Professional Elective – VI	193MC5E10	Internet of Things	MCA
491	V	Professional Elective – VI	193MC5E11	DevOps	MCA
492	V	Professional Elective – VI	193MC5E12	MOOCs-4 (NPTEL/SWAYAM)	MCA


Convenor
Academic Committee


Principal
PRINCIPAL
Aditya Engineering College
SURAMPALEM


PRINCIPAL
ADITYA ENGINEERING COLLEGE
SURAMPALEM - 533 437