



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

Criteria 1: Curriculum Design and Development

Sub Criteria 1.2.1

List of New Courses for the Academic Year 2020-21

S.No	Programme Code	Programme Name	Course Name	Course Code	Regulation
1	01	B.Tech CE	Communicative English	20HS1T01	AR20
2	01	B.Tech CE	Differential equations and linear algebra	201BS1T01	AR20
3	01	B.Tech CE	Engineering Physics	201BS1T02	AR20
4	01	B.Tech CE	Engineering Graphics	201ES1T05	AR20
5	01	B.Tech CE	Communicative English Lab	201HS1L01	AR20
6	01	B.Tech CE	Engineering Physics Lab	201BS1L01	AR20
7	01	B.Tech CE	Environmental Science	201MC1T01	AR20
8	01	B.Tech CE	Partial Differential Equations and Vector Calculus	201BS2T05	AR20
9	01	B.Tech CE	Chemistry of Materials	201BS2T08	AR20
10	01	B.Tech CE	Engineering Mechanics	201ES2T06	AR20
11	01	B.Tech CE	Engineering Chemistry Lab	201BS2L05	AR20
12	01	B.Tech CE	Programming for Problem Solving Using C	201ES2T08	AR20
13	01	B.Tech CE	Programming for Problem Solving Using C Lab	201ES2L10	AR20
14	01	B.Tech CE	Professional Communication Skills Lab	201MC2L01	AR20
15	01	B.Tech CE	Constitution of India	201MC2T02	AR20
16	01	B.Tech CE	Integral Transforms and Applications of Partial Differential Equations	201BS3T12	AR20
17	01	B.Tech CE	Strength of Materials -I	201CE3T01	AR20
18	01	B.Tech CE	Fluid Mechanics	201CE3T02	AR20
19	01	B.Tech CE	Structural Analysis	201CE3T03	AR20
20	01	B.Tech CE	Computer Aided Drafting Lab	201SO3L01	AR20
21	01	B.Tech CE	Numerical Methods and Statistical Techniques	201BS4T15	AR20
22	01	B.Tech CE	Engineering Geology	201CE4T05	AR20
23	01	B.Tech CE	Strength of Materials -II	201CE4T06	AR20
24	01	B.Tech CE	Hydraulics and Hydraulic Machinery	201CE4T07	AR20
25	01	B.Tech CE	Soil Mechanics	201CE4T08	AR20
26	01	B.Tech CE	Management Science	201HS4T02	AR20
27	01	B.Tech CE	3D Modeling Using Revit	201CE4L05	AR20



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28	01	B.Tech CE	Essence of Indian Traditional Knowledge	201MC4T04	AR20
29	01	B.Tech CE	Irrigation and water resource Engineering	191CE5T09	AR19
30	01	B.Tech CE	Engineering Geology	191CE5T10	AR19
31	01	B.Tech CE	Employability Skills -III	191HS5T06	AR19
32	01	B.Tech CE	Social Relative Project	191PR5P02	AR19
33	01	B.Tech CE	Survey Camp	191MC5A07	AR19
34	01	B.Tech CE	Highway Engineering	191CE6T14	AR19
35	01	B.Tech CE	Transportation Engineering	191CE6L07	AR19
36	01	B.Tech CE	Computer Aided Design Lab	191CE6L08	AR19
37	01	B.Tech CE	Employability Skills -IV	191HS6T07	AR19
38	01	B.Tech CE	Environmental Engineering	171CE7T19	AR17
39	01	B.Tech CE	Estimation, Specification and Contracts	171CE7T21	AR17
40	01	B.Tech CE	Industry Oriented (Internship) Minor Project	171CE7P01	AR17
41	01	B.Tech CE	Major Project	171CE8P02	AR17
42	02	B.Tech EEE	Engineering Graphics and Design	201ES1I01	AR20
43	02	B.Tech EEE	Data Structures through C Lab	201ES2L06	AR20
44	02	B.Tech EEE	Design of Electrical Circuits using Engineering Software Tools	201SO3L02	AR20
45	02	B.Tech EEE	Digital Electronics lab	201EE4L05	AR20
46	02	B.Tech EEE	IoT Applications of Electrical Engineering	201SC4L14	AR20
47	02	B.Tech EEE	Python programming	191ES3T11	AR19
48	02	B.Tech EEE	Python programming Lab	191ES3L15	AR19
49	02	B.Tech EEE	Analog Electronic Circuits Lab	191EE4L03	AR19
50	02	B.Tech EEE	Industry Oriented (Internship) Minor Project	171EE7P01	AR17
51	02	B.Tech EEE	Digital Signal Processing	171EE7E12	AR17
52	02	B.Tech EEE	EHVAC Transmission	171EE7E16	AR17
53	02	B.Tech EEE	Vehicular Electric Power Systems	171EE8O06	AR17
54	02	B.Tech EEE	Internet of Things	171EE8O07	AR17
55	02	B.Tech EEE	Cyber Security	171EE8O08	AR17
56	03	B.Tech ME	Engineering Graphics	201ES1T05	AR20



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57	03	B.Tech ME	Computer Aided Drafting Lab	201ES2L12	AR20
58	03	B.Tech ME	Integral Transforms and Applications of Partial Differential equations	191BS3T11	AR19
59	03	B.Tech ME	Essence of Indian Traditional Knowledge	191MC3A04	AR19
60	03	B.Tech ME	Numerical Methods & Statistical Techniques	191BS4T16	AR19
61	03	B.Tech ME	Internet of Things	191ES4T15	AR19
62	03	B.Tech ME	Computer Aided Machine Drawing	191ME4L04	AR19
63	03	B.Tech ME	Biology For Engineers	191MC4A06	AR19
64	03	B.Tech ME	Green Engineering Systems	171ME7E11	AR17
65	03	B.Tech ME	Nano Materials and Technology	171ME7E12	AR17
66	03	B.Tech ME	Flexible Manufacturing Systems	171ME7E15	AR17
67	03	B.Tech ME	CAD/CFD Lab	171ME7L07	AR17
68	03	B.Tech ME	CAM/Mechatronics Lab	171ME7L08	AR17
69	03	B.Tech ME	Java Programming	171ME8O01	AR17
70	03	B.Tech ME	Electrical Safety Management	171ME8O02	AR17
71	03	B.Tech ME	Neural Networks & Fuzzy Logic	171EE8O04	AR17
72	03	B.Tech ME	Data Base Management Systems	171CE8O02	AR17
73	03	B.Tech ME	Entrepreneur Resource Planning	171ME8O03	AR17
74	03	B.Tech ME	Computer Graphics	171ME8O04	AR17
75	04	B.Tech ECE	Numerical Methods & Vector Calculus	191BS3T13	AR19
76	04	B.Tech ECE	Electronic Devices and Circuits	191EC3T01	AR19
77	04	B.Tech ECE	Signals and Systems	191EC3T03	AR19
78	04	B.Tech ECE	Electronic Devices and Circuits Lab	191EC3L01	AR19
79	04	B.Tech ECE	Digital Electronics and Logic Design Lab	191ES3L16	AR19
80	04	B.Tech ECE	Essence of Indian Traditional Knowledge	191MC3A04	AR19
81	04	B.Tech ECE	Control Systems	191ES4T17	AR19
82	04	B.Tech ECE	Analog Electronic Circuits – Lab	191EC4L02	AR19
83	04	B.Tech ECE	Biology for Engineers	191MC4A06	AR19
84	04	B.Tech ECE	Digital Signal Processors	171EC7E10	AR17
85	04	B.Tech ECE	Industry Oriented (Internship) Minor Project	171EC7P01	AR17
86	04	B.Tech ECE	Mixed Signal IC Design	171EC8E16	AR17
87	04	B.Tech ECE	Basic Concrete Technology	171EC8O01	AR17
88	04	B.Tech ECE	Waste Water Management	171CE8O04	AR17



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89	04	B.Tech ECE	Disaster Management	17IEC8O02	AR17
90	04	B.Tech ECE	Neural Networks	17IEC8O03	AR17
91	04	B.Tech ECE	Alternative Energy Sources	17ICE8O03	AR17
92	04	B.Tech ECE	Database Management Systems	17ICE8O02	AR17
93	04	B.Tech ECE	Web Technologies	17IEC8O04	AR17
94	04	B.Tech ECE	Green Fuel Technologies	17ICE8O06	AR17
95	05	B.Tech CSE	Computer Engineering Workshop	20IES1I02	AR20
96	05	B.Tech CSE	Data Structures through C	20IES2T07	AR20
97	05	B.Tech CSE	Advanced Data Structures	20ICS3T01	AR20
98	05	B.Tech CSE	Object Oriented Programming through C++	20ICS3T02	AR20
99	05	B.Tech CSE	Object Oriented Programming through C++ Lab	20ICS3L01	AR20
100	05	B.Tech CSE	Operating Systems Lab	20ICS3L02	AR20
101	05	B.Tech CSE	Unix and Shell Programming Lab	20ICS3L03	AR20
102	05	B.Tech CSE	Skill Oriented Course-I 1. Applications of python-numpy	20ISO3L05	AR20
103	05	B.Tech CSE	2.web application development using full stack frontend development-module -I	20ISO3L06	AR20
104	05	B.Tech CSE	Discrete Mathematics	19IBS3T14	AR19
105	05	B.Tech CSE	Software Engineering	19ICS3T01	AR19
106	05	B.Tech CSE	Object Oriented Programming through Java	19ICS3T02	AR19
107	05	B.Tech CSE	Probability and Statistics	19IBS4T18	AR19
108	05	B.Tech CSE	Internet of Things	19IES4T15	AR19
109	05	B.Tech CSE	Computer Organization	19ICS4T07	AR19
110	05	B.Tech CSE	Internet of Things Lab	19IES4L17	AR19
111	05	B.Tech CSE	Employability Skills - II	19IMC4A05	AR19
112	05	B.Tech CSE	UML and Design Patterns	17ICS7T19	AR17



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113	05	B.Tech CSE	Management Science	171HS7T05	AR17
114	05	B.Tech CSE	Image Processing	171CS7E15	AR17
115	05	B.Tech CSE	Cyber Laws	171CS7E16	AR17
116	05	B.Tech CSE	Middleware Technologies	171CS7E17	AR17
117	05	B.Tech CSE	Artificial Intelligence and Machine Learning	171CS7E18	AR17
118	05	B.Tech CSE	UML and Design Patterns Lab	171CS7L12	AR17
119	05	B.Tech CSE	Big Data Analytics Lab	171CS7L13	AR17
120	05	B.Tech CSE	Industry Oriented (Internship) Minor Project	171CS7P01	AR17
121	05	B.Tech CSE	Agile Methodologies	171CS8E21	AR17
122	05	B.Tech CSE	Distributed Databases	171CS8E23	AR17
123	05	B.Tech CSE	Microprocessor and Multi Core Systems	171CS8O01	AR17
124	05	B.Tech CSE	Soft Computing	171CS8O03	AR17
125	05	B.Tech CSE	Optical Communications	171CS8O05	AR17
126	05	B.Tech CSE	Renewable Energy sources	171CS8O06	AR17
127	05	B.Tech CSE	Nano Technology and its Applications	171CS8O07	AR17
128	12	B.Tech IT	Formal Languages and Automata Theory	201CS4T05	AR20
129	12	B.Tech IT	R Programming Lab	201CS4L06	AR20
130	12	B.Tech IT	Skill Oriented Course 2 Applications of python- pandas	201SC4L18	AR20
131	12	B.Tech IT	Web application development using full stack frontend development module-II	201SC4L19	AR20
132	12	B.Tech IT	Object Oriented Programming through Java Lab	191CS3L01	AR19
133	12	B.Tech IT	Theory of Computation	191IT4T01	AR19



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134	12	B.Tech IT	Industry Oriented (Internship) Minor Project	17IT7P01	AR17
135	12	B.Tech IT	Pattern Recognition	17IT7E10	AR17
136	12	B.Tech IT	Computer Vision	17IT8O02	AR17
137	26	B.Tech Min.E	Numerical Methods and Integral Transforms	19IBS3T15	AR19
138	26	B.Tech Min.E	Internet Of Things	19IES3T10	AR19
139	26	B.Tech Min.E	Complex Variables and Statistical Methods	19IBS4T19	AR19
140	26	B.Tech Min.E	Geo-statistics	191MI4T08	AR19
141	26	B.Tech Min.E	Mine mechanization	171MI7E13	AR17
142	26	B.Tech Min.E	Advance Underground Coal Mining Technology	171MI7E14	AR17
143	26	B.Tech Min.E	Mine Blasting operation	171MI7E15	AR17
144	26	B.Tech Min.E	Planning of UGMM Project	171MI7E10	AR17
145	26	B.Tech Min.E	Planning of UGCM Project	171MI7E11	AR17
146	26	B.Tech Min.E	Planning of Surface Mining Project	171MI7E12	AR17
147	26	B.Tech Min.E	Mine Planning and Design Lab	171MI7L07	AR17
148	26	B.Tech Min.E	Mechanical Engineering Lab	17IES7L16	AR17
149	26	B.Tech Min.E	Industry Oriented (Internship) Minor Project	171MI7P01	AR17
150	26	B.Tech Min.E	Advance Surface Mining Technology	171MI8E17	AR17
151	26	B.Tech Min.E	Advanced Underground Metal Mining Technology	171MI8E18	AR17
152	26	B.Tech Min.E	Environmental Impact Assessment	171MI8O01	AR17
153	27	B.Tech PT	Skill oriented course -Industry Exploration Project	201SO3L12	AR20
154	27	B.Tech PT	Skill oriented course- Python Programming	201SC4L21	AR20



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155	27	B.Tech PT	Geology and Sedimentology	191PT3T02	AR19
156	27	B.Tech PT	Industry Oriented (Internship) Minor Project	171PT7P01	AR17
157	27	B.Tech PT	Reliability and Risk Management in Petroleum Operations	171PT8E17	AR17
158	27	B.Tech PT	Deep Sea Production Systems	171PT8E18	AR17
159	27	B.Tech PT	Green Technologies	171PT8O01	AR17
160	27	B.Tech PT	Non-Conventional Sources of Energy	171PT8O02	AR17
161	27	B.Tech PT	Alternative Energy Sources for Automobiles	171PT8O03	AR17
162	27	B.Tech PT	Waste Water Treatment	171PT8O04	AR17
163	27	B.Tech PT	Computational Fluid Dynamics	171PT8O05	AR17
164	27	B.Tech PT	Process Intensification in Petroleum Industry	171PT8O06	AR17
165	27	B.Tech PT	Major Project	171PT8P02	AR17
166	35	B.Tech Ag.E	Soil Science and Agronomy Field Lab	201ES1L04	AR20
167	35	B.Tech Ag.E	Computer Aided Drafting Lab	201ES2L12	AR20
168	35	B.Tech Ag.E	Integral Transforms and Applications of Partial Differential Equations	191BS3T11	AR19
169	35	B.Tech Ag.E	Principles of Agronomy and Soil Science Lab	191AG3L01	AR19
170	35	B.Tech Ag.E	Numerical Methods & Statistical Techniques	191BS4T16	AR19
171	35	B.Tech Ag.E	Ground Water Hydrology Lab	191AG4L04	AR19
172	35	B.Tech Ag.E	Farm Power and Tractor Systems Lab	191AG4L05	AR19
173	35	B.Tech Ag.E	Heat and Mass Transfer lab	191AG4L06	AR19
174	35	B.Tech Ag.E	Farm Machinery and Equipment – II	171AG7T19	AR17
175	35	B.Tech Ag.E	Seed Processing and Storage Engineering	171AG7E09	AR17



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176	35	B.Tech Ag.E	Food Packaging Technology	171AG7E11	AR17
177	35	B.Tech Ag.E	Aqua Cultural Engineering	171AG7E12	AR17
178	35	B.Tech Ag.E	Soil Dynamics in Tillage and Traction	171AG7E13	AR17
179	35	B.Tech Ag.E	Computational Fluid Dynamics	171AG7E14	AR17
180	35	B.Tech Ag.E	Farm Machinery Lab – II	171AG7L06	AR17
181	35	B.Tech Ag.E	Dairy and Food Engineering Lab	171AG7L07	AR17
182	35	B.Tech Ag.E	Industry Oriented (Internship) Minor Project	171AG7P01	AR17
183	35	B.Tech Ag.E	Hydraulic Devices and Control	171AG8E15	AR17
184	35	B.Tech Ag.E	Design of Agricultural Machinery	171AG8E17	AR17
185	35	B.Tech Ag.E	Industrial Pollution Control Engineering	171AG8O02	AR17
186	35	B.Tech Ag.E	Mechatronics	171AG8O03	AR17
187	35	B.Tech Ag.E	Water Resources Systems Planning and Management	171AG8O04	AR17
188	35	B.Tech Ag.E	Operations Research	171CS8O04	AR17
189	35	B.Tech Ag.E	Image Processing Techniques	171AG8O05	AR17
190	35	B.Tech Ag.E	Major Project	171AG8P02	AR17
191	1E	MBA	Management and Organizational Behavior	194MB1T01	AR19
192	1E	MBA	Managerial Economics	194MB1T02	AR19
193	1E	MBA	Accounting for Managers	194MB1T03	AR19
194	1E	MBA	Quantitative Analysis for Business Decisions	194MB1T04	AR19
195	1E	MBA	Legal and Business Environment	194MB1T05	AR19
196	1E	MBA	Business Communication and Soft Skills	194MB1T06	AR19



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197	1E	MBA	Cross Cultural Management.	194MB1O01	AR19
198	1E	MBA	Business Communication and Soft Skills Lab.	194MB1L01	AR19
199	1E	MBA	Information Technology – Lab – I (Spreadsheet and Tally)	194MB1L02	AR19
200	1E	MBA	Marketing Management	194MB2T09	AR19
201	1E	MBA	Operations Management	194MB2T10	AR19
202	1E	MBA	Project Management.	194MB2O04	AR19
203	1E	MBA	IT-Lab – 2 (R Programming)	194MB2L03	AR19
204	1E	MBA	Operations Research	194MB3T13	AR19
205	1E	MBA	Leadership and Change Management	194HR3E01	AR19
206	1E	MBA	Performance Evaluation and Compensation Management	194HR3E02	AR19
207	1E	MBA	Human Capital Management	194HR3E03	AR19
208	1E	MBA	Manpower Planning, Recruitment, and Selection	194HR3E04	AR19
209	1E	MBA	Investment Analysis and Portfolio Management	194FI3E01	AR19
210	1E	MBA	Managing Banks and Financial Institutions	194FI3E02	AR19
211	1E	MBA	Financial Markets and Services	194FI3E03	AR19
212	1E	MBA	Taxation	194FI3E04	AR19
213	1E	MBA	Consumer Behavior	194MA3E01	AR19
214	1E	MBA	Retail Management	194MA3E02	AR19
215	1E	MBA	Digital and Social Media Marketing	194MA3E04	AR19
216	1E	MBA	Industrial Project based on Summer Internship	194MB3P01	AR19
217	1E	MBA	Supply Chain Management and Analytics	194MB4T14	AR19



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218	1E	MBA	Innovation and Entrepreneurship	194MB4T15	AR19
219	1E	MBA	Labour Welfare and employment laws	194HR4E05	AR19
220	1E	MBA	International HRM	194HR4E06	AR19
221	1E	MBA	Employee Relations and Engagement	194HR4E07	AR19
222	1E	MBA	Financial Derivatives	194FI4E05	AR19
223	1E	MBA	Risk Management	194FI4E07	AR19
224	1E	MBA	MOOCs: SWAYAM/NPTEL	194MB2O07	AR19
225	1F	MCA	Operating Systems and Linux Lab	203MC1L01	AR20
226	1F	MCA	Socially Relevant Project using Design Thinking	203MC1P01	AR20
227	1F	MCA	Software Engineering and Design Patterns	203MC2T08	AR20
228	1F	MCA	Bridge Course (Python Programming to be taken through MOOCs)	203MC2S01	AR20
229	1F	MCA	IoT Lab	203MC3L08	AR20
230	1F	MCA	Internship / Industry Oriented Mini Project/ Skill Development Course	203MC3P02	AR20
231	1F	MCA	No SQL Databases	203MC2E01	AR20
232	1F	MCA	Soft Computing	203MC3E06	AR20
233	1F	MCA	Deep Learning	203MC4E13	AR20
234	1F	MCA	Block Chain technologies	203MC4E16	AR20
235	1F	MCA	IT Workshop (Lab)	193MC1L03	AR19
236	1F	MCA	Full Stack Technologies	193MC4T17	AR19
237	1F	MCA	Full Stack Technologies Lab	193MC4L10	AR19
238	1F	MCA	Data Mining with R Lab	193MC4L11	AR19



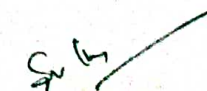
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239	1F	MCA	Big Data Analytics	193MC5T20	AR19
240	1F	MCA	Machine Learning	193MC5T21	AR19
241	1F	MCA	Digital Marketing	193MC5E07	AR19
242	1F	MCA	Natural Language Processing	193MC5E08	AR19
243	1F	MCA	DevOps	193MC5E11	AR19
244	1F	MCA	Machine Learning with Python Lab	193MC5L15	AR19
245	1F	MCA	Statistics With R Programming	173MC1T04	AR17
246	1F	MCA	English Language Communication Skills Lab	173MC1L01	AR17
247	1F	MCA	Statistics With R Programming Lab	173MC1L03	AR17
248	1F	MCA	Operating System & Computer Graphics Lab	173MC2L06	AR17
249	1F	MCA	Cloud Computing	173MC4E03	AR17
250	1F	MCA	Artificial Intelligence	173MC4E05	AR17
251	1F	MCA	Advanced Java & Web Technologies Lab	173MC4L10	AR17
252	1F	MCA	Python Programming	173MC5T21	AR17
253	1F	MCA	Computer Forensics	173MC5E08	AR17
254	1F	MCA	Internet of Things	173MC5E10	AR17
255	1F	MCA	Operating Systems and Linux Lab	203MC1L01	AR20
256	1F	MCA	Socially Relevant Project using Design Thinking	203MC1P01	AR20
257	1F	MCA	Software Engineering and Design Patterns	203MC2T08	AR20
258	1F	MCA	Bridge Course (Python Programming to be taken through MOOCs)	203MC2S01	AR20


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SURAMPalem - 533 437