



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 New Courses Introduced Program Wise for the Academic Year

2019-2020

S. No	Program Code	Program Name	Number of New Courses
1	1	B. Tech. (Civil Engineering)	5
2	2	B. Tech. (Electrical and Electronics Engineering)	12
3	3	B. Tech. (Mechanical Engineering)	4
4	4	B. Tech. (Electronics and Communication Engineering)	5
5	5	B. Tech. (Computer Science and Engineering)	11
6	12	B. Tech. (Information Technology)	19
7	27	B. Tech. (Petroleum Technology)	4
8	35	B. Tech. (Agricultural Engineering)	8
9	26	B. Tech. (Mining Engineering)	11
10	21	M. Tech. (Thermal Engineering)	1
11	52	M. Tech. (Power Electronics and Drives)	7
12	58	M. Tech. (Computer Science & Engineering)	12
13	72	M. Tech. (VLSI Design)	16
14	87	M. Tech. (Structural Engineering)	9
15	8	M. Tech. (Petroleum Engineering)	9
16	25	M. Tech. (Software Engineering)	13
17	55	M. Tech. (Embedded Systems)	15
18	1E	Master of Business Administration	11
19	1M	Integrated Master of Business Administration	28
20	1F	Master of Computer Applications	5
B.Tech Common Courses			16
M.Tech Common Courses			10
Total Number of New Courses			231


Convenor

Academic Committee



Principal
PRINCIPAL

ADITYA ENGINEERING COLLEGE
SURAMPALAM - 533 437



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List of New Courses for the Academic Year 2019-2020

S.No	Program Code	Program Name	Course Name	Course Code
1	01	B.Tech CE	Civil Engineering Workshop	191ES2L04
2	01	B.Tech CE	MOOCs - I	171CE5S01
3	01	B.Tech CE	Surveying Camp	171CE5P03
4	01	B.Tech CE	MOOCs - II	171CE6S02
5	01	B.Tech CE	Irrigation Design & Drawing	R1641018
6	02	B.Tech EEE	Data Structures Through C	191ES2T05
7	02	B.Tech EEE	Basic Civil and Mechanical Engineering	191ES2T06
8	02	B.Tech EEE	Basic Civil and Mechanical Engineering Lab	191ES2L05
9	02	B.Tech EEE	Electrical Engineering Workshop	191ES2L06
10	02	B.Tech EEE	MOOCs - I	171EE5S01
11	02	B.Tech EEE	Electrical Safety	171EE5E03
12	02	B.Tech EEE	Computer Architecture	171EE6E04
13	02	B.Tech EEE	Distributed Generation and Microgrid	171EE6E06
14	02	B.Tech EEE	MOOCs - II	171EE6S02
15	02	B.Tech EEE	Electrical Machine Modeling and Analysis	R164102A
16	02	B.Tech EEE	Programmable Logic Controllers and Applications	R164102C
17	02	B.Tech EEE	HVDC Transmission	R1642022

S.No	Program Code	Program Name	Course Name	Course Code
18	03	B.Tech ME	Mechanical Engineering Workshop	191ES2L07
19	03	B.Tech ME	Mechanical Vibrations	171ME5E02
20	03	B.Tech ME	Mechatronics Lab	R1641038
21	03	B.Tech ME	Thermal Equipment Design	R164203A
22	04	B.Tech ECE	Electronics Engineering Workshop	191ES2L09
23	04	B.Tech ECE	MOOCs – I	171EC5S01
24	04	B.Tech ECE	CPLD and FPGA Architectures	171EC6E04
25	04	B.Tech ECE	MOOCs – II	171EC6S02
26	04	B.Tech ECE	System Design through Verilog	R164104C
27	05	B.Tech CSE	MOOCs – I	171CS5S01
28	05	B.Tech CSE	Bio Informatics	171CS6E06
29	05	B.Tech CSE	Human Computer Interaction	171CS6E07
30	05	B.Tech CSE	Pattern Recognition	171CS6E09
31	05	B.Tech CSE	Storage Area Networks	171CS6E11
32	05	B.Tech CSE	MOOCs – II	171CS6S02
33	05	B.Tech CSE	Software Architecture & Design Patterns	R1641052
34	05	B.Tech CSE	Software Architectures & Design Patterns Lab	R1641057
35	05	B.Tech CSE	Scripting Languages	R164105F
36	05	B.Tech CSE	Concurrent and Parallel Programming	R164205A
37	05	B.Tech CSE	Operation Research	R164205C

S.No	Program Code	Program Name	Course Name	Course Code
38	12	B Tech IT	Computer Networks	171IT5T02
39	12	B Tech IT	Artificial Intelligence	171IT5E01
40	12	B Tech IT	MOOCs – I	171IT5S01
41	12	B Tech IT	Neural Networks	171IT6E02
42	12	B Tech IT	Design and Analysis of Algorithms	171IT6E03
43	12	B Tech IT	Advanced Computer Networks	171IT6E04
44	12	B Tech IT	Multimedia Programming	171IT6E05
45	12	B Tech IT	Unified Modeling Language Lab	171IT6L03
46	12	B Tech IT	MOOCs – II	171IT6S02
47	12	B Tech IT	Data Ware Housing and Business Intelligence	R1641121
48	12	B Tech IT	Internet of Things	R164112A
49	12	B Tech IT	Multimedia Programming	R164112B
50	12	B Tech IT	Machine Learning	R164112C
51	12	B Tech IT	Decision Support System	R164112D
52	12	B Tech IT	Mobile computing Lab	R1641126
53	12	B Tech IT	Cryptography and Network Security Lab	R1641128
54	12	B Tech IT	Management Information System	R1642121
55	12	B Tech IT	Cyber Security	R164212A
56	12	B Tech IT	Software Quality Assurance	R164212B
57	27	B.Tech PT	Petroleum Technology Worrkshop	191ES2L13

S.No	Program Code	Program Name	Course Name	Course Code
58	27	B.Tech PT	Well Engineering & Design	171PT5E01
59	27	B.Tech PT	Storage & Transportation of Crude Oil and Natural Gas.	171PT6E05
60	27	B.Tech PT	Shale Gas Reservoir Engineering	R164227A
61	35	B.Tech Ag.E	Agricultural Engineering Workshop	191ES2L14
62	35	B.Tech Ag.E	Rural Water Supply, Sanitation and Environmental Engineering	171AG5E02
63	35	B.Tech Ag.E	MOOCs – I	171AG5S01
64	35	B.Tech Ag.E	Green House / Poly House Technology	171AG6E06
65	35	B.Tech Ag.E	Optimization, Operations Research and Systems Engineering	171AG6E07
66	35	B.Tech Ag.E	Industrial Engineering and Management	171AG6E08
67	35	B.Tech Ag.E	MOOCs - II	171AG6S02
68	35	B.Tech Ag.E	Green House Technologies	R164135B
69	26	B.Tech Min.E	Mining Engineering Workshop	191ES2L12
70	26	B.Tech Min.E	Maintenance and Reliability Engineering	171MI5E01
71	26	B.Tech Min.E	Industrial Management and Labor Relations	171MI5E03
72	26	B.Tech Min.E	MOOCS-I	171MI5S01
73	26	B.Tech Min.E	Mineral Exploration	171MI6E06
74	26	B.Tech Min.E	Advance Surveying Technology	171MI6E07
75	26	B.Tech Min.E	Mine Subsidence Engineering	171MI6E08
76	26	B.Tech Min.E	MOOCS-II	171MI6S02
77	26	B.Tech Min.E	Computer Applications in Mining	R1641261

S.No	Program Code	Program Name	Course Name	Course Code
78	26	B.Tech Min.E	Computer Applications in Mining Lab	R1641267
79	26	B.Tech Min.E	Mine Economics & Investment	R1642261
80	01, 02, 03, 04, 05, 12, 26, 27, 35	All B.Tech Programs	Constitution of India	191MC1A02
81	01, 35	CE, Ag.E	Essential Electrical and Electronics Engineering Lab	191ES2L03
82	01, 02, 03, 04, 05, 12, 26, 27, 35	All B.Tech Programs	Engineering Exploration Project	191PR2P01
83	05, 12	CSE, IT	Essential Electrical and Electronics Engineering	191ES2T03
84	05, 12	CSE, IT	Data Structures through C++	191ES2T09
85	05, 12	CSE, IT	Data Structures Through C++ Lab	191ES2L10
86	05, 12	CSE, IT	Advanced Computer Architecture	171CS5E02
87	01, 02, 03, 04, 05, 12, 26, 27, 35	All B.Tech Programs	Employability Skills - III	171HS5T06
88	01, 02, 03, 04, 05, 12, 26, 27, 35	All B.Tech Programs	Employability Skills - IV	171HS6T07
89	05, 12	CSE, IT	Software Quality Assurance	171CS6E05
90	05, 12	CSE, IT	Social Networks and Semantic Web	171CS6E08
91	05, 12	CSE, IT	Parallel Computing	171CS6E10
92	05, 12	CSE, IT	E - Commerce	171CS6E12
93	05, 12	CSE, IT	Big Data Analysis	R164105A
94	05, 12	CSE, IT	Information Retrieval Systems	R164105B
95	05, 12	CSE, IT	Artificial Neural Network	R164205B
96	21	M.Tech TE	Modeling of I.C Engines	192TE2E15

S.No	Program Code	Program Name	Course Name	Course Code
97	52	M.Tech PED	Power Electronics Simulation Laboratory	192PD1L01
98	52	M.Tech PED	Electric Drives Simulation Laboratory	192PD2L03
99	52	M.Tech PED	Control & Integration of Renewable Energy Systems	192PD2E07
100	52	M.Tech PED	Hybrid Electric Vehicles	192PD2E08
101	52	M.Tech PED	Digital Control Systems	192PD2E09
102	52	M.Tech PED	Advanced Digital Signal Processing	192PD2E10
103	52	M.Tech PED	Applications of Power Converters	192PD2E11
104	58	M.Tech CSE	Advanced Computer Networks	192CS1E04
105	58	M.Tech CSE	Object Oriented Software Engineering	192CS1E06
106	58	M.Tech CSE	Advanced Computing Lab	192CS1L02
107	58	M.Tech CSE	MEAN Stack Technologies	192CS2T04
108	58	M.Tech CSE	Advanced Databases and Mining	192CS2E07
109	58	M.Tech CSE	Ad Hoc & Sensor Networks	192CS2E08
110	58	M.Tech CSE	Soft Computing	192CS2E09
111	58	M.Tech CSE	Principles of computer security	192CS2E11
112	58	M.Tech CSE	High Performance Computing	192CS2E12
113	58	M.Tech CSE	Machine Learning with Python lab	192CS2L03
114	58	M.Tech CSE	MEAN Stack Technologies Lab	192CS2L04
115	58	M.Tech CSE	Mini Project with Seminar	192CS2P01
116	72	M.Tech VLSID	VLSI Technology	192VD1E01

S.No	Program Code	Program Name	Course Name	Course Code
117	72	M.Tech VLSID	Nano materials and Nanotechnology	192VD1E02
118	72	M.Tech VLSID	MEMS Technology	192VD1E03
119	72	M.Tech VLSID	Device Modelling	192VD1E04
120	72	M.Tech VLSID	Nano-Electronics	192VD1E05
121	72	M.Tech VLSID	Photonics	192VD1E06
122	72	M.Tech VLSID	CMOS Analog IC Design Lab	192VD1L01
123	72	M.Tech VLSID	CMOS Digital IC Design Lab	192VD1L02
124	72	M.Tech VLSID	Mixed Signal & RF IC Design	192VD2T03
125	72	M.Tech VLSID	Physical Design Automation	192VD2T04
126	72	M.Tech VLSID	IoT & Its Applications	192VD2E08
127	72	M.Tech VLSID	Microcontrollers & programmable Digital Signal Processors	192VD2E10
128	72	M.Tech VLSID	Network Security & Cryptography	192EM2E11
129	72	M.Tech VLSID	Mixed Signal IC Design Lab	192VD2L03
130	72	M.Tech VLSID	Physical Design Automation Lab	192VD2L04
131	72	M.Tech VLSID	Mini Project with Seminar	192VD2P01
132	87	M.Tech ST	Advanced Concrete Technology	192ST1T03
133	87	M.Tech ST	Design of RCC Foundations	192ST1E03
134	87	M.Tech ST	Analytical & Numerical Method for Structural Engineering	192ST1E02
135	87	M.Tech ST	Advanced Reinforced Concrete Design	192ST1E06
136	87	M.Tech ST	Advanced Steel Design	192ST2E08

S.No	Program Code	Program Name	Course Name	Course Code
137	87	M.Tech.ST	Analysis of offshore Structures	1925T2E09
138	87	M.Tech ST	Precast and Prefabricated Structures	1925T2E11
139	87	M.Tech ST	Earth Retaining Structures	1925T2E12
140	87	M.Tech ST	Structural Design Laboratory	192ST2L04
141	08	M.Tech PE	CBM & Shale Gas Engineering	192PE1E02
142	08	M.Tech PE	Transportation of Oil and Gas	192PE1E03
143	08	M.Tech PE	Advanced Well Logging Techniques & Well Testing Analysis	192PE1E04
144	08	M.Tech PE	Drilling Simulation Laboratory	192PE1L02
145	08	M.Tech PE	Advanced EOR Techniques	192PE2E05
146	08	M.Tech PE	Advanced Well Completions	192PE2E06
147	08	M.Tech PE	Advanced Horizontal Well Technology	192PE2E08
148	08	M.Tech PE	Flow Assurance Laboratory	192PE2L04
149	08	M.Tech PE	Mini Project with Seminar	192PE2P01
150	25	M.Tech SE	Software Engineering	192SO1T01
151	25	M.Tech SE	Advanced-Data Structures	192SO1T02
152	25	M.Tech SE	Machine Learning	192SO1E02
153	25	M.Tech SE	Internet of Things	192CO1E05
154	25	M.Tech SE	Advanced-Data Structures Lab	192SO1L01
155	25	M.Tech SE	Software Engineering Lab – I	192SO1L02
156	25	M.Tech SE	Mathematical Foundations of Computer Science	192SO2T04

S.No	Program Code	Program Name	Course Name	Course Code
157	25	M.Tech SE	Software Testing Methodologies	192SO2E06
158	25	M.Tech SE	Agile Software Development	192SO2E07
159	25	M.Tech SE	Design Patterns	192SO2E11
160	25	M.Tech SE	Software Testing Lab	192SE2L03
161	25	M.Tech SE	Software Engineering Lab – II	192SE2L04
162	25	M.Tech SE	Mini Project with Seminar	192SE2P01
163	55	M.Tech ES	Microcontrollers and Programmable Digital Signal Processors	192EM1T02
164	55	M.Tech ES	Digital Signal and Image Processing	192EM1E01
165	55	M.Tech ES	Parallel Processing	192EM1E02
166	55	M.Tech ES	VLSI signal processing	192EM1E03
167	55	M.Tech ES	Programming Languages for Embedded Systems	192EM1E04
168	55	M.Tech ES	System Design with Embedded Linux	192EM1E05
169	55	M.Tech ES	CAD for Digital System	192EM1E06
170	55	M.Tech ES	Embedded System Design Lab (using Embedded-C)	192EM1L01
171	55	M.Tech ES	Microcontrollers and Programmable Digital Signal Processors Lab	192EM1L02
172	55	M.Tech ES	Memory Architectures	192EM2E07
173	55	M.Tech ES	SoC Design	192EM2E08
174	55	M.Tech ES	Communication Buses and Interfaces	192EM2E10
175	55	M.Tech ES	Physical Design Automation	192EM2E12
176	55	M.Tech ES	Digital System Design Lab	192EM2L04

S.No	Program Code	Program Name	Course Name	Course Code
177	55	M.Tech ES	Mini Project with Seminar	192EM2P01
178	21, 52, 58, 72, 08, 25, 55	All M.Tech Programs except ST	Research methodology and IPR	192HS1T01
179	21, 52, 58, 72, 87, 08, 25, 55	All M.Tech Programs	English for Research Paper Writing	192MC1A01
180	21, 52, 58, 72, 87, 08, 25, 55	All M.Tech Programs	Disaster Management	192MC1A02
181	21, 52, 58, 72, 87, 08, 25, 55	All M.Tech Programs	Sanskrit for Technical Knowledge	192MC1A03
182	21, 52, 58, 72, 87, 08, 25, 55	All M.Tech Programs	Value Education	192MC1A04
183	21, 52, 58, 72, 87, 08, 25, 55	All M.Tech Programs	Constitution of India	192MC1A05
184	21, 52, 58, 72, 87, 08, 25, 55	All M.Tech Programs	Pedagogy Studies	192MC1A06
185	21, 52, 58, 72, 87, 08, 25, 55	All M.Tech Programs	Stress Management by Yoga	192MC1A07
186	21, 52, 58, 72, 87, 08, 25, 55	All M.Tech Programs	Personality Development through Life Enlightenment Skills	192MC1A08
187	21, 52, 58, 72, 87, 08, 25, 55	All M.Tech Programs	Soft Skills	192MC1A09
188	1E	MBA	Management and Organizational Behavior	194MB1T01
189	1E	MBA	Business Communication and Soft Skills Lab	194MB1L01
190	1E	MBA	Cross Cultural Management	194MB1O01
191	1E	MBA	Rural Innovation Projects	194MB1O02
192	1E	MBA	MOOCs: SWAYAM/NPTEL	194MBMOOC1
193	1E	MBA	Technology Management	194MB2O05
194	1E	MBA	Lean Management	194MB2O06
195	1E	MBA	Data base Management System.	194MB2O07
196	1E	MBA	Project Management	194MB2O04

S.No	Program Code	Program Name	Course Name	Course Code
197	1E	MBA	Information Technology – Lab – I (Spreadsheet and Tally)	194MB1L02
198	1E	MBA	IT-Lab – 2 (R Programming)	194MB2L03
199	1M	IMBA	Knowledge Management	16IM701
200	1M	IMBA	Strategic Cost Management	16IM702
201	1M	IMBA	HR Planning	16IM703A
202	1M	IMBA	Leadership Management	16IM704A
203	1M	IMBA	Compensation and Reward Management	16IM705A
204	1M	IMBA	Security Analysis	16IM703B
205	1M	IMBA	Banking and Insurance Management	16IM704B
206	1M	IMBA	Advanced Management Accounting	16IM705B
207	1M	IMBA	Consumer Behavior	16IM703C
208	1M	IMBA	Rural Marketing	16IM704C
209	1M	IMBA	Supply Chain Management	16IM705C
210	1M	IMBA	E-Business	16IM703D
211	1M	IMBA	RDBMS	16IM704D
212	1M	IMBA	Web Designing	16IM705D
213	1M	IMBA	Total Quality Management	16IM801
214	1M	IMBA	Project Management	16IM802
215	1M	IMBA	Performance Management	16IM804A
216	1M	IMBA	Strategic Human Resource Management	16IM805A

S.No	Program Code	Program Name	Course Name	Course Code
217	1M	IMBA	Organizational Development & Change Management	16IM806A
218	1M	IMBA	Strategic Financial Management	16IM804B
219	1M	IMBA	Portfolio Management	16IM805B
220	1M	IMBA	Financial Markets and Services	16IM806B
221	1M	IMBA	Customer Relationship Management	16IM804C
222	1M	IMBA	Strategic Marketing Management	16IM805C
223	1M	IMBA	Services Marketing	16IM806C
224	1M	IMBA	System Analysis & Design	16IM804D
225	1M	IMBA	Business Intelligence	16IM805D
226	1M	IMBA	Enterprise Resource Planning	16IM806D
227	1F	MCA	IT Workshop (Lab)	193MC1L03
228	1F	MCA	Operating Systems & Linux Lab	193MC2L06
229	1F	MCA	Python Programming	173MC5T21
230	1F	MCA	Computer Forensics	173MC5E08
231	1F	MCA	Internet of Things	173MC5E10


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Program Name: B.Tech Civil Engineering Comparison of new courses introduced in Academic year 2019-2020

List of Courses for the Academic Year 2018-2019			List of Courses for the Academic Year 2019-2020			
Semester	Course Code	Course Name	Semester	Course Code	Course Name	Percentage of content changed for existing year
I	171HS1T01	English - I	I	191HS1T01	Communicative English	90
	171BS1T01	Mathematics - I		191BS1T01	Differential Equations and Linear Algebra	20
	171HS1T02	Environmental Studies		191BS1T02	Engineering Physics	60
	171BS1T03	Engineering Chemistry		191ES1T01	Programming for Problem Solving Using C	10
	171ES1T02	Engineering Mechanics		191HS1L01	Communicative English Lab-I	5
	171ES1T01	Computer Programming		191BS1L01	Engineering Physics Lab	60
	171HS1L01	English Communication Skills Lab - I		191ES1L01	Programming for Problem Solving Using C Lab	10
	171BS1L01	Engineering Chemistry Lab		191ES1L02	Basic Engineering Workshop	55
	171ES1L01	Computer Programming Lab		191MC1A01	Environmental Science	25
				191MC1A02	Constitution of India	100
II	171HS2T03	English - II	II	191BS2T05	Partial Differential Equations and Vector Calculus	40
	171BS2T02	Mathematics - II		191BS2T06	Chemistry of Materials	70
	171BS2T06	Mathematics - III		191ES2T02	Engineering Graphics and Design	55
	171BS2T07	Engineering Physics		191ES2T03	Essential Electrical and Electronics Engineering	10
	171ES2T03	Engineering Drawing		191ES2T04	Engineering Mechanics	15
	171ES2T04	Basic Mechanical Engineering		191HS2L02	Communicative English Lab- II	0
	171HS2L02	English Communication Skills Lab - II		191BS2L04	Engineering Chemistry Lab	50
	171BS2L02	Engineering Physics Lab		191ES2L03	Essential Electrical and Electronics Engineering Lab	100
	171ES2L02	Engineering Workshop and IT Workshop		191ES2L04	Civil Engineering Workshop	100
				191PR2P01	Engineering Exploration Project	100
III	171BS3T10	Probability and Statistics	III	171BS3T10	Probability and Statistics	0
	171ES3T05	Basic Electrical and Electronics Engineering		171ES3T05	Basic Electrical and Electronics Engineering	0
	171ES3T09	Strength of Materials - I		171ES3T09	Strength of Materials - I	0
	171CE3T01	Building Materials and Construction		171CE3T01	Building Materials and Construction	0
	171CE3T02	Surveying		171CE3T02	Surveying	0
	171CE3T03	Fluid Mechanics		171CE3T03	Fluid Mechanics	0
	171CE3L01	Surveying Lab		171CE3L01	Surveying Lab	0
	171ES3L03	Strength of Materials Lab		171ES3L03	Strength of Materials Lab	0
	171HS3A09	Professional Ethics and Human Values		171HS3A09	Professional Ethics and Human Values	0
	171HS3A10	Employability Skills - I		171HS3A10	Employability Skills - I	0
	171CE4T04	Building Planning and Computer Aided Drawing		171CE4T04	Building Planning and Computer Aided Drawing	0
	171CE4T05	Concrete Technology		171CE4T05	Concrete Technology	0
	171CE4T06	Engineering Geology				
	171CE4T07	Hydraulics and Hydraulic Machinery				

IV	171CE4T08	Strength of Materials – II	IV	171CE4T06	Engineering Geology	0
	171CE4T09	Structural Analysis - I		171CE4T07	Hydraulics and Hydraulic Machinery	0
	171CE4L02	Fluid Mechanics and Hydraulic Machinery Lab		171CE4T08	Strength of Materials – II	0
	171CE4L03	Concrete Technology Lab		171CE4T09	Structural Analysis - I	0
	171HS4A08	Intellectual property rights and patents		171CE4L02	Fluid Mechanics and Hydraulic Machinery Lab	0
	171HS4A11	Employability Skills - II		171CE4L03	Concrete Technology Lab	10
	171HS4A04	Managerial Economics and Financial Analysis		171HS4A08	Intellectual property rights and patents	0
V	R1631011	Management Science	V	171HS4A11	Employability Skills - II	0
	R1631012	Engineering Geology		171HS4A04	Managerial Economics and Financial Analysis	0
	R1631013	Structural Analysis -II		171HS5T05	Management Science	20
	R1631014	Design & Drawing of Reinforced Concrete Structures		171CE5T10	Design and Drawing of Reinforced Concrete Structures	0
	R1631015	Transportation Engineering - II		171CE5T11	Transportation Engineering	32
	R1631016	Concrete Technology Lab		171CE5T12	Structural Analysis - II	0
	R1631017	Geology Lab		171CE5T13	Water Resource Engineering - I	17*
VI	R1631018	Transportation Engineering Lab	VI	171CE5E01	(PE I)Construction Technology and Management	33
	R1632011	Design & Drawing of Steel Structures		171CE5E02	Urban Hydrology	0
	R1632012	Geotechnical Engineering - I		171CE5E03	Traffic Engineering	17
	R1632013	Environmental Engineering -I		171HS5T06	Employability Skills - III	100
	R1632014	Water Resource Engineering -I		171CE5L04	Engineering Geology Lab	25
	R1632015A	Electronic Instrumentation		171CE5L05	Transportation Engineering Lab	20
	R1632015B	Data Base Management Systems		171CE5S01	MOOCs – I	100
	R163201C	Alternative Energy Sources		171CE5P03	Surveying Camp	100
	R163201D	Waste water Management		171CE6T14	Design and Drawing of Steel Structures	0
	R163227B	Fundamentals of Liquefied Natural Gas		171CE6T15	Geotechnical Engineering - I	33
	RT41016F	Green Fuel Technologies		171CE6T16	Water Resource Engineering - II	0
	R163201C	Geotechnical Engineering Lab		171CE6T17	Prestressed Concrete	0
	R1632017	Environmental Engineering Lab		171CE6E04	PE II Ground Water Development	0
	R1632018	Computer Aided Engineering Lab		171CE6E05	Pavement Analysis and Design	17
	RT41011	Environmental Engineering – II	VI	171CE6E06	Repair and Rehabilitation of Structures	0*
	RT41012	Prestressed Concrete		171CE6E07	PE III Ground Improvement Techniques	0
	RT41013	Construction Technology and Management		171CE6E08	Finite Element Methods	17
	RT41014	Water Resources Engineering-II		171CE6E09	Earthquake Resistant Design	0

VII	RT41015	Remote Sensing and GIS Applications		171HS6T07	Employability Skills - IV	100
	RT41016	(ELECTIVE - I) Ground Improvement Techniques		171CE6L06	Geotechnical Engineering Lab	20
	RT41017	Air Pollution and Control		171CE6L07	Irrigation Design and Drawing	0
	RT41018	Matrix methods of Structural Analysis		171CE6S02	MOOCs - II	100
	RT41019	Urban Hydrology		R1641011	Environmental Engineering - II	0
	RT4101A	Advanced Surveying		R1641012	Water Resource Engineering - II	0
	RT4101B	Interior Designs and Decorations		R1641013	Geotechnical Engineering - II	0
	RT4101L	Environmental Engineering Lab		R1641014	Remote Sensing & GIS Applications	0*
	RT4101M	GIS & CAD Lab		R164101A	Finite Element Methods(Elective I)	0
VIII	RT42011	Estimating, Specifications & Contracts	VII	R164101B	Ground Improvement Techniques	0
	RT42012A	(ELECTIVE -II) Engineering with Geo-synthetics		R164101C	Air Pollution & Control	0
	RT42012B	Environmental Impact Assessment and Management		R164101D	Urban Hydrology	0
	RT42012C	Advanced Structural Engineering		R164101E	Traffic Engineering	0
	RT42012D	Ground Water Development and Management		R164101F	Advanced Structural Engineering(Elective II)	0
	RT42012E	Traffic Engineering		R164101G	Advanced Foundation Engineering	0
	RT42012F	Infrastructure Management		R164101H	Environmental Impact Assessment & Management	0
	RT42013A	Elective-III: Advanced foundation Engineering		R164101I	Ground Water Development	0
	RT42013B	Solid waste Management		R164101J	Pavement Analysis and Design	0
	RT42013C	Earthquake Resistant Design		R1641019	IPR & Patents	0
	RT42013D	Water Shed Management		R1641017	GIS & CAD Lab	0
	RT42013E	Pavement Analysis and Design		R1641018	Irrigation Design & Drawing	100
	RT42013F	Green Buildings	VIII	R1642011	Estimation Specification & Contracts	0*
	RT42014A	Elective-IV: Soil Dynamics and Machine Foundations		R1642012	Construction Technology & Management	0
	RT42014B	Environmental and Industrial Hygiene		R1642013	Prestressed Concrete	0
	RT42014C	Repair and Rehabilitation of Structures		R164201A	Bridge Engineering (Elective III)	0
	RT42014D	Water Resources System Planning and Management		R164201B	Soil Dynamics and Foundations	0
	RT42014E	Urban Transportation Planning Safety Engineering		R164201C	Solid and Hazardous Waste Management	0
	RT42014G	Bridge Engineering		R164201D	Water Resources Systems Planning	0
	RT42015	Project Work		R164201E	Urban Transportation Planning Engineering	0
				R1642015	Seminar on Internship Project	0
				R1642016	Project	0



Program coordinator



Head of the Department
Head of the Department
Dept. of Civil Engineering
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Department of Electrical and Electronics Engineering

List of Courses for the Academic Year 2018-19

List of Courses for the Academic Year 2019-20

Semester	Course Code	Course Name	Course Code	Course Name	Percentage of content changed for existing year
I	171HS1T01	English - I	191HS1T01	Communicative English	90
	171BS1T01	Mathematics - I	191BS1T01	Differential Equations and Linear Algebra	20
	171HS1T02	Environmental Studies	191BS1T04	Engineering Chemistry	80
	171BS1T05	Applied Chemistry	191ES1T01	Programming for Problem Solving Using C	10
	171ES1T02	Engineering Mechanics	191HS1L01	Communicative English Lab-I	5
	171ES1T01	Computer Programming	191BS1L02	Engineering Chemistry Lab	60
	171HS1L01	English Communication Skills Lab - I	191ES1L01	Programming for Problem Solving Using C Lab	10
	171BS1L03	Applied Chemistry Lab	191ES1L02	Basic Engineering workshop	50
	171ES1L01	Computer Programming Lab	191MC1A01	Environmental Science	25
II	171HS2T03	English - II	191MC1A02	Constitution of India	100
	171BS2T02	Mathematics - II	191BS2T05	Partial Differential Equations and Vector Calculus	40
	171BS2T06	Mathematics - III	191BS2T07	Applied Physics	40
	171BS2T04	Applied Physics	191ES2T05	Data Structures Through C	100
	171ES2T03	Engineering Drawing	191EE2T01	Electrical Circuits Analysis -I	15
	171EE2T01	Electrical Circuit Analysis - I	191ES2T06	Basic Civil and Mechanical Engineering	100
	171HS2L02	English Communication Skills Lab - I	191HS2L02	Communicative English Lab-II	0
	171BS2L04	Applied Physics Lab	191BS2L05	Applied Physics Lab	40
	171ES2L02	Engineering Workshop and IT Workshop	191ES2L05	Basic Civil and Mechanical Engineering Lab	100
III	171EE3T02	Electrical Circuit Analysis - II	191ES2L06	Electrical Engineering Workshop	100
	171EE3T03	Electrical Machines - I	191PR2P01	Engineering Exploration Project	100
	171EE3T04	Basic Electronics Devices and Circuits	171EE3T02	Electrical Circuit Analysis - II	0
	171EE3T05	Electromagnetic Fields	171EE3T03	Electrical Machines - I	0
	171ES3T10	Thermal and Hydro Prime Movers	171EE3T04	Basic Electronics Devices and Circuits	0
	171HS3T04	Managerial Economics and Financial Analysis	171EE3T05	Electromagnetic Fields	0
	171ES3L04	Thermal and Hydro Prime Movers Lab	171ES3T10	Thermal and Hydro Prime Movers	0
	171EE3L01	Electrical Circuits Lab	171HS3T04	Managerial Economics and Financial Analysis	0
	171HS3A09	Professional Ethics and Human Values	171ES3L04	Thermal and Hydro Prime Movers Lab	0
	171HS3A10	Employability Skills - I	171EE3L01	Electrical Circuits Lab	0
			171HS3A09	Professional Ethics and Human Values	0
			171HS3A10	Employability Skills - I	0

IV	171EE4T06	Electrical Measurements	171EE4T06	Electrical Measurements	0
	171EE4T07	Electrical Machines - II	171EE4T07	Electrical Machines - II	0
	171ES4T24	Digital Circuits and Logic Design	171ES4T24	Digital Circuits and Logic Design	0
	171EE4T08	Control Systems	171EE4T08	Control Systems	0
	171EE4T09	Power Systems – I	171EE4T09	Power Systems – I	0
	171HS4T05	Management Science	171HS4T05	Management Science	0
	171EE4L02	Electronic Devices and Circuits Lab	171EE4L02	Electronic Devices and Circuits Lab	0
	171EE4L03	Electrical Machines - I Lab	171EE4L03	Electrical Machines - I Lab	0
	171HS4A11	Employability Skills - II	171HS4A11	Employability Skills - II	0
V	R1631021	Power Systems-II	171EE5T10	Power Systems – II	10
	R1631022	Renewable Energy Sources	171EE5T11	Power Electronics	15
	R1631023	Signals and Systems	171EE5T12	Pulse and Digital Circuits	15
	R1631024	Pulse & Digital Circuits	171EE5T13	Signals and Systems	25
	R1631025	Power Electronics	171EE5E01	Renewable Energy Sources	10
	R1631026	Electrical Machines-II Laboratory	171EE5E02	Modeling and Analysis of Electrical Machines	0
	R1631027	Control Systems Laboratory	171EE5E03	Electrical Safety	100
	R1631028	Electrical Measurements Laboratory	171HS5T08	Intellectual Property Rights and Patents	5
	R1631029	IPR & Patents	171HS5T06	Employability Skills - III	100
VI	R1632021	Power Electronic Controllers & Drives	171EE5L04	Electrical Measurements Lab	0
	R1632022	Power System Analysis	171EE5L05	Electrical Machines - II Lab	10
	R1632023	Micro Processors and Micro controllers	171EE5L06	Control Systems Lab	20
	R1632024	Data Structures	171EE5S01	MOOCs - I	100
	R163202A	Unix and Shell Programming	171EE6T14	Power Electronic Controllers and Drives	5
	R163204A	OOPS Through JAVA	171EE6T15	Power System Analysis	10
	R163202B	VLSI Design	171EE6T16	Micro Processor and Micro Controllers	30
	R163202D	Robotics	171EE6T17	Data Structures	15
	R163202E	Neural Networks & Fuzzy Logic	171EE6E04	Computer Architecture	100
	R163202F	Energy Audit and Conservation & Management	171EE6E05	Electrical Distribution Systems	0
	R1632026	Power Electronics Laboratory	171EE6E06	Distributed Generation and Microgrid	100
	R1632027	Micro Processors and Micro controllers Laboratory	171EE6E07	Advanced Control Systems	0
	R1632028	Data Structures Laboratory	171EE6E08	PLC and Applications	0
			171EE6E09	Instrumentation	0
			171EE6E10	OOPs through JAVA	0
			171HS6T07	Employability Skills - IV	100
			171EE6L07	Data Structures Lab	0

	R1632029	Professional Ethics & Human Values	171EE6L08	Power Electronics Lab	20
			171EE6S02	MOOCs - II	100
VII	RT41021	Renewable Energy Sources and Systems	R1641021	Utilization of Electrical Energy	0
	RT41022	HVAC & DC Transmission	R1641022	Linear IC Applications	0
	RT41023	Power System Operation & Control	R1641023	Power System Operation & Control	15
	RT41024	Energy Audit, Conservation and Management	R1641024	Switchgear and Protection	0
	RT41025	Instrumentation	R164102A	Electrical Machine Modeling and Analysis	100
	RT41026	Non Conventional Sources of Energy	R164102B	Advanced Control Systems	0
	RT41027	Optimization Techniques	R164102C	Programmable Logic Controllers and Applications	100
	RT41028	VLSI Design	R164102D	Instrumentation	0
	RT41029	Electrical Distribution Systems	R164102E	Optimization Techniques	30
	RT41030	Optimization Techniques	R164102F	Electric Power Quality	0
	RT4102L	Microprocessors & Microcontrollers Lab	R164102G	Special Electrical Machines	0
	RT4102M	Electrical Simulation Lab	R1641027	Electrical Simulation Laboratory	0
	RT4102N	Power systems lab	R1641028	Power Systems lab	0
VIII	RT42021	Digital Control Systems	R1642021	Digital Control Systems	0
	RT42022A	Advanced Control Systems	R1642022	HVDC Transmission	100
	RT42022B	Extra High Voltage Transmission			
	RT42022C	Special Electrical Machines	R1642023	Electrical Distribution Systems	0
	RT42023A	Electric Power Quality			
	RT42023B	Digital Signal Processing	R164202A	High Voltage Engineering	0
	RT42023C	FACTS: Flexible Alternating Current Transmission Systems.			
	RT42024A	OOPS Through Java	R164202B	Flexible Alternating Current Transmission Systems	0
	RT42024B	UNIX and Shell Programming			
	RT42024C	AI Techniques	R164202C	Power System Reforms	0
	RT42024D	Power System Reforms	R1642025	Seminar	0
	RT42024E	Systems Engineering			
	RT42025	Project	R1642026	Project	0

Program Coordinator

Head of the Department
Head of The Department
Dept: Of Electrical & Electronics Engineering
Aditya Engineering College (A9)



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Department of Mechanical Engineering

List of Courses for the Academic Year 2018-19

Semester	Course Code	Course Name
I	17IHS1T01	English - I
	17IBS1T01	Mathematics - I
	17IHS1T02	Environmental Studies
	17IBS1T03	Engineering Chemistry
	17IES1T02	Engineering Mechanics
	17IES1T01	Computer Programming
	17IHS1L01	English Communication Skills Lab - I
	17IBS1L01	Engineering Chemistry Lab
	17IES1L01	Computer Programming Lab
II	17IHS2T03	English - II
	17IBS2T02	Mathematics - II
	17IBS2T06	Mathematics - III
	17IBS2T07	Engineering Physics
	17IES2T03	Engineering Drawing
	17IES2T05	Basic Electrical and Electronics Engineering
	17IHS2L02	English Communication Skills Lab - II
	17IBS2L02	Engineering Physics Lab
	17IES2L02	Engineering Workshop and IT Workshop
III	17IES3T13	Metallurgy & Materials Science
	17IES3T11	Mechanics of Solids
	17IES3T12	Thermodynamics
	17IHS3T04	Managerial Economics and Financial Analysis
	17IES3T14	Fluid Mechanics & Hydraulic Machinery
	17IME3T01	Computer Aided Engineering Drawing Practice
	17IES3L05	Basic Electrical And Electronics Engg. Lab
	17IES3L06	Mechanics of Solids and Metallurgy Lab
	17IHS3A09	Professional Ethics & Human Values
	17IHS3A10	Employability skills-I
IV	17IME4T02	Kinematics of Machinery
	17IME4T03	Thermal Engineering -I
	17IME4T04	Production Technology
	17IME4T05	Design of Machine members-I
	17IME4T06	Industrial Engineering and Management
	17IME4T07	Machine Drawing
	17IHS4T08	Intellectual Property rights and patents
	17IME4L01	Production Technology Lab
	17IES4L07	Fluid mechanics and Hydraulic Machinery Lab
	17IHS4A11	Employability Skills -II
	R1631031	Dynamics of Machinery
	R1631032	Metal Cutting and Machine Tools
	R1631033	Design of Machine members-II
	R1631034	Operations Research

List of Courses for the Academic Year 2019-20

Course Code	Course Name	Percentage of content changed for existing year
19IHS1T01	Communicative English	90
19IBS1T01	Differential Equations and Linear	20
19IBS1T02	Engineering Physics	60
19IES1T01	Programming for Problem Solving using	0
19IHS1L01	Communicative English Lab-I	0
19IBS1L01	Engineering Physics Lab	60
19IES1L01	Programming for Problem Solving using C Lab	0
19IES1L02	Basic Engineering Workshop	72
19IMC1A01	Environment Science	50
19IMC1A02	Constitution of India	100
19IBS2T05	Partial Differential Equations and Vector Calculus	40
19IBS2T06	Chemistry of Materials	70
19IES2T02	Engineering Graphics and Design	45
19IES2T03	Essential Electrical and Electronics Engineering	0
19IES2T04	Engineering Mechanics	20
19IHS2L02	Communicative English Lab-II	0
19IBS2L04	Engineering Chemistry Lab	50
19IES2L03	Essential Electrical and Electronics Engineering Lab	0
19IES2L07	Mechanical Engineering Workshop	100
19IPR2P01	Engineering Exploration Project	100
17IES3T13	Metallurgy & Materials Science	0
17IES3T11	Mechanics of Solids	0
17IES3T12	Thermodynamics	0
17IHS3T04	Managerial Economics and Financial Analysis	0
17IES3T14	Fluid Mechanics & Hydraulic Machinery	0
17IME3T01	Computer Aided Engineering Drawing Practice	0
17IES3L05	Basic Electrical and Electronics Engineering Lab	0
17IES3L06	Mechanics of Solids and Metallurgy Lab	0
17IHS3A09	Professional Ethics & Human Values	0
17IHS3A10	Employability skills-I	0
17IME4T02	Kinematics of Machinery	0
17IME4T03	Thermal Engineering -I	0
17IME4T04	Production Technology	0
17IME4T05	Design of Machine members-I	0
17IME4T06	Industrial Engineering and Management	0
17IME4T07	Machine Drawing	0
17IHS4T08	Intellectual Property rights and patents	0
17IME4L01	Production Technology Lab	0
17IES4L07	Fluid mechanics and Hydraulic Machinery Lab	0
17IHS4A11	Employability Skills -II	0
17IME5T08	Dynamics of Machinery	0
17IME5T09	Metal Cutting and Machine Tools	0
17IME5T10	Thermal Engineering -II	0
17IME5T11	Design of Machine Members-II	20

V	R1631035	Thermal Engineering -II	171ME5T12	Operations Research	0
	R1631036	Theory of Machines Lab	171ME5E01	Automobile Engineering	36
	R1631037	Machine Tools Lab	171ME5E02	Mechanical Vibrations	100
	R1631038	Thermal Engineering Lab	171ME5E03	Additive Manufacturing	0
VI	R1631029	IPR&Patents	171HS5T06	Employability Skills -III	100
	R1632031	Metrology	171ME5L02	Theory of Machines Lab	
	R1632032	Instrumentation and Control systems	171ME5L03	Thermal Engineering Lab	28
	R1632033	Refrigeration and Air Conditioning	171ME5S01	MOOCS-I	0
	R1632034	Heat Transfer	171ME6T13	Heat Transfer	0
	R163201A	Entrepreneurship	171ME6T14	Refrigeration and Air Conditioning	0
	R163201B	Data Base Management Systems	171ME6T15	Metrology and Instrumentation	48
	R163201D	Waste Water Management	171ME6E04	Robotics	0
	R163203B	Computer Graphics	171ME6E05	Design for Manufacturing	0
	R163203C	Industrial Robotics	171ME6E06	Non-Destructive Evaluation	20
	R163203D	Green Engineering Systems	171ME6E07	Unconventional Machining Processes	0
	R1632036	Heat Transfer Lab	171ME6E08	Industrial Hydraulics and Pneumatics	15
	R1632037	Metrology & Instrumentation Lab	171ME6E09	Quality & Reliability Engineering	0
	R1632038	Computational Fluid Dynamics Lab	171HS6T07	Employability Skills-IV	100
VII	R1632039	Professional Ethics & Human Values	171ME6L04	Machine Tools Lab	20
	RT41031	Automobile Engineering	171ME6L05	Heat Transfer Lab	0
	RT41032	CAD/CAM	171ME6L06	Metrology & Instrumentation Lab	24
	RT41033	finite Element Methods	171ME6S02	MOOCS-II	0
	RT41034	Unconventional Machining Process	R1641031	Mechatronics	0
	RT41035	MEMS	R1641032	CAD/CAM	0
	RT41036	Nano technology	R1641033	Finite Element Methods	0
	RT41037	Material Characterization techniques	R1641034	Power Plant Engineering	0
	RT41038	Design for Manufacture	R164103A	Computational Fluid Dynamics	0
	RT41039	Automation in Manufacturing	R164103B	Condition Monitoring	0
	RT4103A	Industrial hydraulics and Pneumatics	R164103C	Additive Manufacturing	0
	RT4103L	Simulation Lab	R164103D	Advanced Materials	0
	RT4103M	Design/Fabrication project	R164103E	Design for Manufacture	0
VIII	RT42031	Production Planning and control	R164103F	Gas Dynamics and Jet Propulsion	0
	RT42032	Green Engineering Systems	R1641037	CAD/CAM Lab	20
	RT42033A	Experimental Stress Analysis	R1641038	Mechatronics Lab	100
	RT42033B	Mechatronics	R1642031	Production Planning and Control	0
	RT42033C	Advanced Materials	R1642032	Unconventional Machining Processes	0
	RT42033D	Power Plant Engineering	R1642033	Automobile Engineering	0
	RT42034A	Non Destructive Evaluation	R164203A	Thermal Equipment Design	100
	RT42034B	Advanced Optimization techniques	R164203B	Non-Destructive Evaluation	16
	RT42034C	Gas Dynamics and Jet Propulsion	R164203C	Quality & Reliability Engineering	0
	RT42034D	Quality & Reliability Engineering	R1642036	Project	0
	RT42035	Project Work			

Program Coordinator

Head of the Department

Head of the Department
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Department of Electronics and Communication Engineering

Programme Name : B.Tech ECE

List of Courses for the Academic Year 2018-2019			List of Courses for the Academic Year 2019-2020		
Semester	Course Code	Course Name	Course Code	Course Name	Percentage of content changed for existing year
I	171HS1T01	English - I	191HS1T01	Communicative English	10
	171BS1T01	Mathematics – I	191BS1T01	Differential Equations and Linear Algebra	20
	171BS1T02	Mathematics - II	191BS1T03	Applied Physics	20
	171BS1T04	Applied Physics	191ES1T01	Programming for Problem Solving Using C	35
	171ES1T03	Engineering Drawing	191HS1L01	Communicative English Lab-I	0
	171ES1T01	Computer Programming	191BS1L03	Applied Physics Lab	0
	171HS1L01	English Communication Skills Lab - I	191ES1L01	Programming for Problem Solving Using C Lab	35
	171BS1L04	Applied Physics Lab	191ES1L02	Basic Engineering Workshop	50
	171ES1L01	Computer Programming Lab	191MC1A01	Environmental Science	20
			191MC1A02	Constitution of India	100
II	171HS2T03	English – II	191BS2T08	Transform Techniques	20
	171BS2T06	Mathematics – III	191BS2T09	Engineering Chemistry	30
	171HS2T02	Environmental Studies	191ES2T02	Engineering Graphics and Design	55
	171BS2T05	Applied Chemistry	191ES2T07	Basic Electrical Engineering	60
	171ES2T06	Electrical and Mechanical Technology	191ES2T08	Network Analysis	10
	171CS2T01	Data Structures through c	191HS2L02	Communicative English Lab-II	0
	171HS2L02	English Communication Skills Lab – II	191BS2L04	Engineering Chemistry Lab	0
	171BS2L03	Applied Chemistry Lab	191ES2L08	Basic Electrical Engineering Lab	6

List of Courses for the Academic Year 2018-2019			List of Courses for the Academic Year 2019-2020		
Semester	Course Code	Course Name	Course Code	Course Name	Percentage of content changed for existing year
II	171ES2L02	Engineering Workshop And IT Workshop	191ES2L09	Electronics Engineering Workshop	100
			191PR2P01	Engineering Exploration Project	100
III	171EC3T01	Electronic Devices and Circuits	171EC3T01	Electronic Devices and Circuits	0
	171EC3T02	Switching Theory and Logic Design	171EC3T02	Switching Theory and Logic Design	0
	171EC3T03	Signals and Systems	171EC3T03	Signals and Systems	0
	171ES3T15	Network Analysis	171ES3T15	Network Analysis	0
	171EC3T04	Random Variables and Stochastic Processes	171EC3T04	Random Variables and Stochastic Processes	0
	171HS3T04	Managerial Economics and Financial Analysis	171HS3T04	Managerial Economics and Financial Analysis	0
	171EC3L01	Electronic Devices and Circuits Lab	171EC3L01	Electronic Devices and Circuits Lab	0
	171ES3L08	Networks and Electrical Technology Lab	171ES3L08	Networks and Electrical Technology Lab	0
	171HS3A09	Professional Ethics and Human Values	171HS3A09	Professional Ethics and Human Values	0
	171HS3A10	Employability Skills – I	171HS3A10	Employability Skills – I	0
IV	171EC4T05	Electronic Circuit Analysis	171EC4T05	Electronic Circuit Analysis	0
	171EC4T06	Electromagnetic Waves and Transmission Lines	171EC4T06	Electromagnetic Waves and Transmission Lines	0
	171EC4T07	Analog Communications	171EC4T07	Analog Communications	0
	171EC4T08	Pulse and Digital Circuits	171EC4T08	Pulse and Digital Circuits	0
	171HS4T05	Management Science	171HS4T05	Management Science	0
	171ES4T28	Linear Control Systems	171ES4T28	Linear Control Systems	0
	171HS4T08	IPR and Patents	171HS4T08	IPR and Patents	0
	171EC4L02	Electronic Circuit Analysis Lab	171EC4L02	Electronic Circuit Analysis Lab	0
	171EC4L03	Analog Communications Lab	171EC4L03	Analog Communications Lab	0
	171HS4A11	Employability Skills – II	171HS4A11	Employability Skills – II	0

List of Courses for the Academic Year 2018-2019			List of Courses for the Academic Year 2019-2020		
Semester	Course Code	Course Name	Course Code	Course Name	Percentage of content changed for existing year
V	R1631041	Computer Architecture and Organization	171EC5T09	Linear IC Applications	4
	R1631042	Linear I C Applications	171EC5T10	Digital IC Applications	0
	R1631043	Digital I C Applications	171EC5T11	Digital Communications	0
	R1631044	Digital Communications	171EC5T12	Antennas and Wave Propagation	0
	R1631045	Antenna and Wave Propagation	171EC5E01	Computer Architecture and Organization	35
	R1631046	Pulse and Digital Circuits Lab	171EC5E02	OOPS through JAVA	0
	R1631047	Linear I C Applications Lab	171EC5E03	Electronic Switching Systems	0
			171HS5T06	Employability Skills - III	100
	R1631048	Digital I C Applications Lab	171EC5L04	Linear IC Applications Lab	6.6
			171EC5L05	Digital IC Applications Lab	0
	R1631049	Professional Ethics & Human Values	171EC5L06	Pulse and Digital Circuits Lab	13.33
			171EC5S01	MOOCs - I	100
VI	R1632041	Micro Processors & Micro Controllers	171EC6T13	Micro Processors and MicroControllers	0
	R1632042	Micro Wave Engineering	171EC6T14	VLSI Design	32
	R1632043	VLSI Design	171EC6T15	Digital Signal Processing	16.6
	R1632044	Digital Signal Processing	171EC6E04	CPLD and FPGA Architectures	100
	R163204A	OOPs through Java	171EC6E05	Operating Systems	16.6
	R163204B	Data Mining	171EC6E06	Computer Networks	16.6
	R163204C	Industrial Robotics	171EC6E07	Digital Design Through Verilog	0
	R163204E	Power Electronics	171EC6E08	Biomedical Engineering	0
	R163204D	Bio-Medical Engineering	171EC6E09	Information Theory and Coding	60
	R163204F	Artificial Neural Networks	171HS6T07	Employability Skills - IV	100

List of Courses for the Academic Year 2018-2019			List of Courses for the Academic Year 2019-2020		
Semester	Course Code	Course Name	Course Code	Course Name	Percentage of content changed for existing year
VI	R1632046	Micro Processors & Micro Controllers Lab	171EC6L07	Micro Processor and Micro Controllers Lab	0
	R1632047	VLSI Lab	171EC6L08	VLSI lab	66.6
	R1632048	Digital Communications Lab	171EC6L09	Digital Communications Lab	20
	R1632049	IPR & Patents	171EC6S02	MOOCs - II	100
VII	RT41041	VLSI Design	R1641041	Radar Systems	20
	RT41042	Computer Networks	R1641042	Digital Image Processing	35
	RT41043	Digital Image Processing	R1641043	Computer Networks	50
	RT41044	Computer Architecture & Organization	R1641044	Optical Communications	0
	RT41045	Electronic Switching Systems	R164104A	TV Engineering	0
	RT41046	Analog IC Design	R164104B	Electronic Switching Systems	12
	RT41047	Object Oriented Programming & O S	R164104C	System Design through Verilog	100
	RT41048	Radar Systems	R164104D	Embedded Systems	5
	RT41049	Advanced Computer Architecture	R164104E	Analog IC Design	0
	RT4104A	Optical Communication	R164104F	Network Security & Cryptography	65
	RT4104B	Digital IC Design			
	RT4104C	Speech Processing	R1641047	Micro Wave Engineering & Optical Lab	20
	RT4104D	Artificial Neural Network & Fuzzy Logic			
	RT4104E	Network Security & Cryptography	R1641048	Digital Signal Processing Lab	60
	RT4104L	VLSI Lab			
	RT4104M	Microwave Engineering Lab			
VIII	RT42041	Cellular Mobile Communication	R1642041	Cellular Mobile Communications	10
	RT42042	Electronic Measurements and Instrumentation	R1642042	Electronic Measurements and Instrumentation	0

List of Courses for the Academic Year 2018-2019			List of Courses for the Academic Year 2019-2020		
Semester	Course Code	Course Name	Course Code	Course Name	Percentage of content changed for existing year
VIII	RT42043A	Satellite Communication	R1642043	Satellite Communications	0
	RT42043B	Mixed signal Design	R164204A	Wireless sensors & Networks	0
	RT42043C	Embedded systems	R164204B	Digital IC Design	0
	RT42043D	RF Circuit Design			
	RT42043E	Cloud Computing	R164204C	Operating Systems	70
	RT42044A	Wireless Sensors and Networks			
	RT42044B	System on Chip	-	Seminar	0
	RT42044C	Low Power IC Design			
	RT42044D	Bio-Medical Instrumentation			
	RT42044E	EMI/EMC	-	Project	0
	RT42045	Project & Seminar			

A. Kaul
Program Coordinator

A. Seidoss
Head of the Department

Head of the Department
Department of E.C.E.
Aditya Engineering College (A3)



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Program Name: B. Tech in Computer Science and Engineering

List of courses for the Academic Year 2018-2019		
Semester	Course Code	Course Name
I	171HS1T01	English – I
	171BS1T01	Mathematics – I
	171BS1T02	Mathematics – II
	171BS1T04	Applied Physics
	171ES1T03	Engineering Drawing
	171ES1T01	Computer Programming
	171HS1L01	English Communication Skills Lab – I
	171BS1L04	Applied Physics Lab
	171ES1L01	Computer Programming Lab
II	171HS2T03	English – II
	171BS2T06	Mathematics – III
	171HS2T02	Environmental Studies
	171BS2T05	Applied Chemistry
	171ES2T02	Engineering Mechanics
	171CS2T01	Data Structures through C
	171HS2L02	English Communication Skills Lab – II
	171BS2L03	Applied Chemistry Lab
	171ES2L02	Engineering Workshop & IT Workshop
III	171BS3T08	Mathematical Foundations of Computer Science
	171ES3T23	Digital Logic Design
	171CS3T02	Statistics with R Programming
	171CS3T03	Object Oriented Programming Through C++
	171HS3T04	Managerial Economics & Financial Analysis
	171CS3T04	Advanced Data Structures
	171CS3L01	Object Oriented Programming Lab
	171CS3L02	Advanced Data Structures Lab

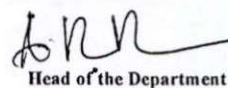
List of courses for the Academic Year 2019-2020		
Course Code	Course Name	% of content revised for the existing year
191HS1T01	Communicative English	0
191BS1T01	Differential Equations and Linear Algebra	100
191BS1T03	Applied Physics	60
191ES1T01	Programming For Problem Solving Using C	100
191HS1L01	Communicative English Lab -I	0
191BS1L03	Applied Physics Lab	0
191ES1L01	Programming For Problem Solving Using C Lab	100
191ES1L02	Basic Engineering Workshop	0
191MC1A01	Environmental Science	0
191MC1A02	Constitution of India	100
191BS2T09	Engineering Chemistry	0
191BS2T10	Numerical Methods and Complex Variables	40
191ES2T02	Engineering Graphics and Design	100
191ES2T03	Essential Electrical and Electronics Engineering	100
191ES2T09	Data Structures through C++	100
191HS2L02	Communicative English Lab-II	100
191BS2L04	Engineering Chemistry Lab	0
191ES2L10	Data Structures Through C++ Lab	0
191ES2L11	IT Workshop	0
191PR2P01	Engineering Exploration Project	100
171BS3T08	Mathematical Foundations of Computer Science	0
171ES3T23	Digital Logic Design	0
171CS3T02	Statistics with R Programming	0
171CS3T03	Object Oriented Programming Through C++	0
171HS3T04	Managerial Economics & Financial Analysis	0
171CS3T04	Advanced Data Structures	0
171CS3L01	Object Oriented Programming Lab	0
171CS3L02	Advanced Data Structures Lab	0

Semester	Course Code	Course Name	Course Code	Course Name	% of content revised for the existing year
	17IHS3A10	Employability Skills – I	17IHS3A10	Employability Skills – I	0
	17IHS3A09	Professional Ethics & Human Values	17IHS3A09	Professional Ethics & Human Values	0
IV	17ICS4T05	Software Engineering	17ICS4T05	Software Engineering	0
	17ICS4T06	Formal Languages & Automata Theory	17ICS4T06	Formal Languages & Automata Theory	0
	17ICS4T07	Java Programming	17ICS4T07	Java Programming	0
	17ICS4T08	Database Management Systems	17ICS4T08	Database Management Systems	0
	17ICS4T09	Principles of Programming Languages	17ICS4T09	Principles of Programming Languages	0
	17ICS4T10	Computer Organization	17ICS4T10	Computer Organization	0
	17ICS4L03	Java Programming Lab	17ICS4L03	Java Programming Lab	0
	17ICS4L04	Database Management Systems Lab	17ICS4L04	Database Management Systems Lab	0
	17IHS4A11	Employability Skills – II	17IHS4A11	Employability Skills – II	0
	17IHS4A08	IPR & Patents	17IHS4A08	IPR & Patents	0
V	R1631051	Compiler Design	17ICS5T11	Compiler Design	0
	R1631052	Unix Programming	17ICS5T12	Python Programming	0
	R1631053	Object Oriented Analysis and Design using UML	17ICS5T13	Design & Analysis of Algorithms	0
	R1631054	Database Management Systems	17ICS5T14	Operating Systems	0
	R1631055	Operating Systems	17ICS5E01	Unix and Shell Programming	0
	R1631056	Unified Modeling Lab	17ICS5E02	Advanced Computer Architecture	100
	R1631057	Operating System & Linux Programming Lab	17ICS5E03	Computer Graphics	0
	R1631058	Database Management System Lab	17ICS5E04	Software Testing Methodologies	80
	R1631049	Professional Ethics & Human Values	17IHS5T06	Employability Skills – III	100
			17ICS5L05	Operating System and Linux Lab	0
			17ICS5L06	Python Programming Lab	0
			17ICS5L07	Software Testing Lab	0
			17ICS5L08	Compiler Design Lab	0
			17ICS5S01	MOOCs – I	100
	R1632049	IPR & Patents	17ICS6T15	Computer Networks	0
	R1632051	Computer Networks	17ICS6T16	Web Technologies	0
	R1632052	Data Warehousing and Mining	17ICS6T17	Data Warehousing and Data Mining	0
	R1632053	Design and Analysis of Algorithms	17ICS6E05	Software Quality Assurance	100
	R1632054	Software Testing Methodologies	17ICS6E06	Bio Informatics	100
	R163205A	Artificial Intelligence	17ICS6E07	Human Computer Interaction	100
	R163205B	Internet of Things	17ICS6E08	Social Networks and Semantic Web	100

Semester	Course Code	Course Name	Course Code	Course Name	% of content revised for the existing year
VI	R163205C	Cyber Security	171CS6E09	Pattern Recognition	100
	R163205D	Digital Signal Processing	171CS6E10	Parallel Computing	100
	R163205E	Embedded Systems	171CS6E11	Storage Area Networks	100
	R163205F	Robotics	171CS6E12	E - Commerce	100
	R1632056	Network Programming Lab	171HS6T07	Employability Skills – IV	100
	R1632057	Software Testing Lab	171CS6L09	Computer Networks Lab	0
	R1632058	Data Warehousing and Mining Lab	171CS6L10	Data Warehousing and Data Mining Lab	0
			171CS6L11	Web Technologies Lab	0
VII			171CS6S02	MOOCs – II	100
	RT41051	Cryptography and Network Security	R1641051	Cryptography and Network Security	0
	RT41052	UML and Design Patterns	R1641052	Software Architecture & Design Patterns	100
	RT41053	Mobile Computing	R1641053	Web Technologies	0
	RT41054	Software Testing Methodologies	R1641054	Managerial Economics and Financial Analysis	100
	RT41055	Simulation Modeling	R1641057	Software Architectures & Design Patterns Lab	100
	RT41056	Information Retrieval Systems	R1641058	Web Technologies Lab	0
	RT41057	Artificial Intelligence	R164105A	Big Data Analysis	100
	RT41058	Multimedia Computing	R164105B	Information Retrieval Systems	100
	RT41059	High Performance Computing	R164105C	Mobile Computing	0
	RT4105A	Digital Forensics	R164105D	Cloud Computing	0
	RT4105B	Hadoop and Big Data	R164105E	Software Project Management	0
	RT4105C	Software Project Management	R164105F	Scripting Languages	100
	RT4105D	Machine Learning			
	RT4105E	Advanced Databases			
	RT4105M	Mobile Application Development Lab			
	RT4105N	Software Testing Lab			
	RT4105O	Hadoop and Bigdata Lab			
	RT4105L	UML and Design Patterns Lab			
VIII	RT42051	Distributed Systems	R1642051	Distributed Systems	0
	RT42052	Management Science	R1642052	Management Science	0
	RT42053A	Human Computer Interaction	R1642053	Machine Learning	0
	RT42053B	Advanced Operating Systems	R1642055	Seminar	0
	RT42053C	Mobile Adhoc & Sensor Networks	R1642056	Project	0
	RT42053D	Pattern Recognition	R164205A	Concurrent and Parallel Programming	100
	RT42053E	Digital Image Processing	R164205B	Artificial Neural Network	100

Semester	Course Code	Course Name	Course Code	Course Name	% of content revised for the existing year
	RT42053F	Micro processors and Multi Core Systems	R164205C	Operation Research	100
	RT42043B	Embedded and Real Time Systems			
	RT42043C	Neural Networks & Soft Computing			
	RT42043D	Social Networks and the Semantic Web			
	RT42043E	Cloud Computing			
	RT42055	Project			


Program Coordinator


Head of the Department

Head of the Department
Department of CSE
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Department of Information Technology

List of Courses for the Academic Year 2018-2019			List of Courses for the Academic Year 2019-2020		
Semester	Course Code	Course Name	Course Code	Course Name	Percentage of content changed for existing year
I	171HS1T01	English – I	191HS1T01	Communicative English	0
	171BS1T01	Mathematics – I	191BS1T01	Differential Equations and Linear Algebra	0
	171BS1T02	Mathematics – II	191BS1T03	Applied Physics	0
	171BS1T04	Applied Physics	191ES1T01	Programming For Problem Solving Using C	0
	171ES1T03	Engineering Drawing	191HS1L01	Communicative English Lab -I	0
	171ES1T01	Computer Programming	191BS1L03	Applied Physics Lab	0
	171HS1L01	English Communication Skills Lab – I	191ES1L01	Programming For Problem Solving Using C Lab	0
	171BS1L04	Applied Physics Lab	191ES1L02	Basic Engineering Workshop	0
	171ES1L01	Computer Programming Lab	191MC1A01	Environmental Science	0
II			191MC1A02	Constitution of India	100
	171HS2T03	English – II	191BS2T10	Numerical Methods and Complex Variables	
	171BS2T06	Mathematics – III	191BS2T09	Engineering Chemistry	0
	171HS2T02	Environmental Studies	191ES2T02	Engineering Graphics and Design	0
	171BS2T05	Applied Chemistry	191ES2T03	Essential Electrical and Electronics Engineering	100
	171ES2T02	Engineering Mechanics	191ES2T09	Data Structures through C++	100
	171CS2T01	Data Structures	191HS2L02	Communicative	0

		through C			English Lab-II	
	171HS2L02	English Communication Skills Lab – II		191BS2L04	Engineering Chemistry Lab	0
	171BS2L03	Applied Chemistry Lab		191ES2L10	Data Structures Through C++ Lab	100
	171ES2L02	Engineering Workshop & IT Workshop		191ES2L11	IT Workshop	0
	171BS3T08	Mathematical Foundations of Computer Science		191PR2P01	Engineering Exploration Project	100
III	171ES3T23	Digital Logic Design		171BS3T08	Mathematical Foundations of Computer Science	50
	171CS3T02	Statistics with R Programming		171ES3T23	Digital Logic Design	100
	171CS3T03	Object Oriented Programming through C++		171CS3T02	Statistics with R Programming	55
	171HS3T04	Managerial Economics & Financial Analysis		171CS3T03	Object Oriented Programming through C++	25
	171CS3T04	Advanced Data Structures		171HS3T04	Managerial Economics & Financial Analysis	0
	171CS3L01	Object Oriented Programming Lab		171CS3T04	Advanced Data Structures	0
	171CS3L02	Advanced Data Structures Lab		171CS3L01	Object Oriented Programming Lab	0
	171HS3A10	Employability Skills – I		171CS3L02	Advanced Data Structures Lab	100
				171HS3A10	Employability Skills – I	0
				171HS3A09	Professional Ethics & Human Values	
IV	171HS3A09	Professional Ethics & Human Values		171CS4T05	Software Engineering	
	171CS4T05	Software Engineering		171IT4T01	Language Processors	
	171IT4T01	Language		171CS4T07	Java Programming	0

		Processors				
	171CS4T07	Java Programming		171CS4T08	Database Management Systems	0
	171CS4T08	Database Management Systems		171HS4T05	Management Science	0
	171HS4T05	Management Science		171CS4T10	Computer Organization	0
	171CS4T10	Computer Organization		171CS4L03	Java Programming Lab	0
	171CS4L03	Java Programming Lab		171CS4L04	Database Management Systems Lab	100
	171CS4L04	Database Management Systems Lab		171HS4A11	Employability Skills – II	100
V	171HS4A11	Employability Skills – II		171HS4A08	IPR & Patents	100
	171HS4A08	IPR & Patents		171IT5T02	Computer Networks	100
	R1631121	Human Computer Interaction		171CS5T12	Python Programming	0
	R1631052	Unix and Shell Programming		171IT5T03	Unix and Shell Programming	0
	R1631122	Advanced Java Programming		171CS5T14	Operating Systems	0
	R1631054	Database Management Systems		171IT5E01	Artificial Intelligence	100
	R1631055	Operating Systems		171CS5E02	Advanced Computer Architecture	100
	R1631123	Advanced Java Programming Lab		171CS5E03	Computer Graphics	0
	R1631124	Unix and Operating Systems Lab		171IT5SE01	Software testing methodologies	0
	R1631125	Database Management System Lab		171HS5T06	Employability Skills – III	100
	R1631049	Professional Ethics & Human Values		171IT5L01	Operating Systems and Computer Networks Lab	0
				171CS5L06	Python Programming Lab	
				171CS5L07	Software Testing	

				Lab	
			171IT5L02	Unix and Shell Programming Lab	
			171IT5S01	MOOCs – I	100
VI	R1632051	Computer Networks	171IT6T04	Object Oriented Analysis and Design Using UML	0
	R1632121	Data Mining	171CS6T16	Web Technologies	0
	R1632122	Web Technologies	171CS6T17	Data Warehousing and Data Mining	0
	R1632054	Software Testing Methodologies	171CS6E05	Software Quality Assurance	100
	R163205A	Artificial Intelligence	171IT6E02	Neural Networks	100
	R1632123A	Social Networks and Semantic Web	171CS6E08	Social Networks and Semantic Web	100
	R1632055D	Digital Signal Processing	171IT6E03	Design and Analysis of Algorithms	100
	R1632055E	Embedded Systems	171IT6E04	Advanced Computer Networks	100
	R1632025D	Robotics	171CS6E10	Parallel Computing	100
	R1632123B	Operations Research	171IT6E05	Multimedia Programming	100
	R1632124	Web Technologies Lab	171CS6E12	E – Commerce	100
	R1632125	Software Testing Lab	171HS6T07	Employability Skills – IV	100
	R1632126	Data Mining Lab	171IT6L03	Unified Modeling Language Lab	100
	R1632049	IPR & Patents	171CS6L10	Data Warehousing and Data Mining Lab	0
			171CS6L11	Web Technologies Lab	
			171IT6S02	MOOCs – II	100
VII	RT41051	Cryptography and Network Security	R1641051	Cryptography and Network Security	0
	RT41052	UML & Design Patterns	R164105C	Mobile Computing	0
	RT41053	Mobile Computing	R1641121	Data Ware Housing and Business Intelligence	100
	RT41121	Embedded and Real Time	R1641054	Managerial Economics and	0

		Systems			Financial Analysis	
	RT41056	Information Retrieval Systems		R164105A	Big Data Analytics	100
	RT41058	Multimedia Computing		R164105B	Information Retrieval Systems	100
	RT4105B	Hadoop and Big Data		R164112A	Internet of Things	100
	RT4105C	Software Project Management		R164112B	Multimedia Programming	100
	RT41122	Computer Vision		R164105D	Cloud Computing	0
	RT4105E	Advanced Databases		R164105E	Software Project Management	0
	RT4112L	UML & Design Patterns Lab		R164112C	Machine Learning	100
	RT4112M	Mobile Application Development Lab		R164112D	Decision Support System	100
	RT4112O	Software Engineering Lab		R1641127	Mobile Computing Lab	100
	RT4112N	Hadoop & Big Data Lab		R1641128	Cryptography and Network Security Lab	100
	RT42053A	Human Computer Interaction		R1641051	Cryptography and Network Security	0
	RT42053B	Advanced Operating Systems				0
	PT42053C	Mobile Adhoc & Sensor Networks				0
	PT42053D	Pattern Recognition				0
	RT42051	Distributed Systems				0
VIII	RT42121	Mathematical Optimization (LP, Scheduling, Simulation, QT, Markov analysis, NLP, PERT CPM Network related problems etc)		R1642051	Distributed Systems	0
				R1642052	Management	0

	RT42052	Management Science		Science	
			R1642121	Management Information System	100
			R164205A	Concurrent and Parallel Programming	0
			R164212A	Cyber Security	100
			R164205B	Artificial Neural Networks	100
			R164212B	Software Quality Assurance	100
			R1642055	Seminar	
			R1642056	Project	


Program Coordinator


Head of the Department
Head of the Department
Department of IT
Aditya Engineering College



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Department of Petroleum Technology

Programme Name :B. Tech PT

List of courses for the Academic Year 2018-2019			List of courses for the Academic Year 2019-2020		
Semester	Course Code	Course Name	Course Code	Course Name	% of content revised for the existing year
I	171HS1T01	English - I	191HS1T01	Communicative English	90
	171BS1T01	Mathematics - I	191BS1T01	Differential Equations and Linear Algebra	20
	171HS1T02	Environmental Studies	191BS1T02	Engineering Physics	60
	171BS1T03	Engineering Chemistry	191ES1T01	Programming for Problem Solving Using C	0
	171ES1T02	Engineering Mechanics	191HS1L01	Communicative English Lab-I	0
	171ES1T01	Computer Programming	191BS1L01	Engineering Physics Lab	60
	171HS1L01	English Communication Skills Lab - I	191ES1L01	Programming for Problem Solving Using C Lab	0
	171BS1L01	Engineering Chemistry Lab	191ES1L02	Basic Engineering Workshop	0
	171ES1L01	Computer Programming Lab	191MC1A01	Environmental Science	25
			191MC1A02	Constitution of India	100

II	171HS2T03	English - II		191BS2T05	Partial Differential Equations and Vector Calculus	40
	171BS2T06	Mathematics - III		191BS2T06	Chemistry of Materials	70
	171BS2T02	Mathematics - II		191ES2T02	Engineering Graphics and Design	0
	171BS2T07	Engineering Physics		191ES2T03	Essential Electrical and Electronics Engineering	10
	171ES2T03	Engineering Drawing		191ES2T04	Engineering Mechanics	0
	171ES2T07	Elements Of Mechanical Engineering		191HS2L02	Communicative English Lab-II	0
	171HS2L02	English Communication Skills Lab - II		191BS2L04	Engineering Chemistry Lab	50
	171BS2L02	Engineering Physics Lab		191ES2L03	Essential Electrical and Electronics Engineering Lab	0
	171ES2L02	Engineering Workshop And IT Workshop		191ES2L13	Petroleum Technology Workshop	100
				191PR2P01	Engineering Exploration Project	100
III	171BS3T09	Complex Variables		171ES3T16	Materials Science and Engineering	0
	171ES3T16	Materials Science And Engineering		171ES3T17	General Geology	0
	171ES3T17	General Geology		171ES3T18	Surveying and Offshore Structures	0
	171ES3T18	Surveying And Offshore Structures		171PT3T01	Chemical Process Calculations	0

	171PT3T01	Chemical Process Calculations		171ES3T05	Basic Electrical and Electronics Engineering	0
	171ES3T05	Basic Electrical And Electronics Engineering		171ES3L09	Basic Engineering Lab	0
	171ES3L09	Basic Engineering Lab		171ES3L10	Geology and Surveying Lab	0
	171ES3L10	Geology And Surveying Lab		171HS3A10	Employability Skills - I	0
	171HS3A10	Employability Skills - I		171HS3A09	Professional Ethics and Human Values	0
	171HS3A09	Professional Ethics And Human Values				
IV	171BS4T10	Probability And Statistics		171BS4T10	Probability and Statistics	0
	171PT4T02	Momentum Transfer		171PT4T02	Momentum Transfer	0
	171PT4T03	Petroleum Geology		171PT4T03	Petroleum Geology	0
	171PT4T04	Thermodynamics For Petroleum Engineers		171PT4T04	Thermodynamics for Petroleum Engineers	0
	171PT4T05	Process Heat Transfer		171PT4T05	Process Heat Transfer	0
	171HS4T05	Management Science		171HS4T05	Management Science	0
	171PT4L01	Momentum Transfer Lab		171PT4L01	Momentum Transfer Lab	0
	171PT4L02	Process Heat Transfer Lab		171PT4L02	Process Heat Transfer Lab	0

	171HS4A11	Employability Skills - II		171HS4A11	Employability Skills - II	0
	171HS4A08	IPR And Patents		171HS4A08	IPR and Patents	0
V	R1631011	Management Science		171PT5T06	Process Dynamics and Control	0
	R1631271	Process Dynamics And Control		171PT5T07	Petroleum Exploration	0
	R1631272	Process Instrumentation		171PT5T08	Process Instrumentation	0
	R1631273	Well Logging And Formation Evaluation		171PT5T09	Well Logging and Formation Evaluation	0
	R1631274	Drilling Technology		171PT5T10	Drilling Technology	0
	R1631275	Mathematical Methods Lab		171PT5E01	Well Engineering and Design	100
	R1631276	Instrumentation Process Dynamics And Control Lab		171PT5E02	Fundamentals of Liquefied Natural Gas	0
	R1631277	Drilling Fluids Lab		171PT5E03	Pipeline Engineering	0
	R1631278	Industrial Visits		171PT5L03	Instrumentation, Process Dynamics and Control Lab	0
	R1631279	Mini Project-I		171PT5L04	Drilling Fluids Lab	0
				171HS5T06	Employability Skills - III	100
				171PT5S01	MOOCs – I	0

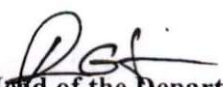
VI

R1632271	Well Completions Testing And Servicing		171PT6T11	Well Completions, Testing and Services	0
R1632272	Petroleum Production Engineering		171PT6T12	Petroleum Production Engineering	0
R1632273	Petroleum Reservoir Engineering-I		171PT6T13	Petroleum Reservoir Engineering - I	0
R1632274	Petroleum Refinery And Petrochemical Engineering		171PT6T14	Surface Production Operations	0
R163227A	Electronoic Instrument		171PT6E04	Petroleum Refining and Petrochemical Engineering	0
R163227C	Big Data Analytics		171PT6E05	Storage and Transportation of Crude Oil and Natural Gas.	0
R163227D	Alternative Energy Sources For Automobiles		171PT6E06	Reservoir Stimulation	0
R163227E	Computational Fluid Dynamics		171PT6E07	Natural Gas Hydrates	0
R163227B	Fundamentals Of Liquefied Natural Gas		171PT6E08	Natural Gas Engineering	0
R1632276	Drilling Simulation Lab		171PT6E09	Horizontal Well Technology	0
R1632277	Petroleum Analysis Lab		171PT6L05	Petroleum Analysis Lab	0
R1632278	Petroleum Reservoir Engineering Lab		171PT6L06	Petroleum Reservoir Simulation Lab	0
R1632279	Summer Internship (4-6 Weeks)		171HS6T07	Employability skills - IV	100
R1632280	Mini Project-II		171PT5S02	MOOCs – II	0

VII	RT41271	Integrated Asset Management		R1641019	IPR and PATENTS	0
	RT41272	Enhanced Oil Recovery Techniques		R1641271	Integrated Asset Management	0
	RT41273	Hse And Fe In Petroleum Industry		R1641272	Petroleum Reservoir Engineering-II	0
	RT41274	Petroleum Reservoir Engineering II		R1641273	Surface Production Operations	0
	RT41016B	Fundamentals Of Petroleum Industry		R1641274	Oil and Gas Processing Plant Design	0
	RT41016F	Green Technologies		R1641277	Petroleum Equipment Design and Simulation Lab	0
	RT41016A	Energy Mangement		R1641278	Petroleum Reservoir Simulation Lab	0
	RT41016C	Offshore Enginnering		R164127A	Natural Gas Hydrates	0
	RT41016D	Pipeline Enginnering		R164127B	pipeline engineering	0
	RT41279	Coal Bed Methane Engineering		R164127C	Horizontal well technology	0
	RT4127L	Petroleum Equipment Design And Simulation Lab		R164127D	Coal Bed Methane Engineering	0
	RT4127M	Petroleum Reservoir Engineering Lab		R164127E	Offshore engineering	0
	RT4127N	Presentation Of Sip Report		R164127F	Reservoir stimulation	0
VIII	RT42275	Project		R1642271	EOR Techniques	0

	RT42271	Petroleum Economics And Regulations And Policies		R1642272	HSE and FE in Petroleum Industry	0
	RT42272A	Reservoir Modeling And Simulation		R1642273	Petroleum Economics Policies and Regulations	100
	RT42272B	Horizontal Well Technology		R164227A	Shale Gas Reservoir Engineering	100
	RT42272C	Lng-Processes And Transportation And Storage		R164227B	Subsea Engineering	0
	RT42273A	Reservoir Stimulation		R164227C	Reservoir Modeling & Simulation	0
	RT42273B	Subsea Engineering		R1642275	Seminar(SIP Report Presentation)	0
	RT42273C	Fundamentals Of Multiphase Flow		R1642276	Project	0
	RT42274A	Natural Gas Hydrates				
	RT42274B	Advanced Natural Gas Engineering				
	RT42274C	Petroleum Biotechnology				


Program Coordinator


Head of the Department

Head of the Department
Department of Petroleum Technology
Aditya Engineering College (A)
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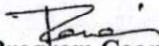
Department of Agricultural Engineering

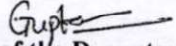
List Of Courses for the Academic Year 2018-2019			List Of Courses for the Academic Year 2019-2020		
Semester	Course Code	Course Name	Course Code	Course Name	Percentage of content changed for existing year
I	171HS1T01	English – I	191HS1T01	Communicative English	90
	171BS1T01	Mathematics – I	191BS1T01	Differential Equations and Linear Algebra	20
	171HS1T02	Environmental Studies	191BS1T02	Engineering Physics	60
	171BS1T03	Engineering Chemistry	191ES1T01	Programming for Problem Solving Using C	0
	171ES1T02	Engineering Mechanics	191HS1L01	Communicative English Lab-I	0
	171ES1T01	Computer Programming	191BS1L01	Engineering Physics Lab	60
	171HS1L01	English Communication Skills Lab – I	191ES1L01	Programming for Problem Solving Using C Lab	0
	171BS1L01	Engineering Chemistry Lab	191ES1L02	Basic Engineering Workshop	10
	171ES1L01	Computer Programming Lab	191MC1A01	Environmental Science	25
II			191MC1A02	Constitution of India	100
	171HS2T03	English – II	191BS2T05	Partial Differential Equations and Vector Calculus	40
	171BS2T02	Mathematics - II	191BS2T06	Chemistry of Materials	70
	171BS2T06	Mathematics - III	191ES2T02	Engineering Graphics and Design	55
	171BS2T07	Engineering Physics	191ES2T03	Essential Electrical & Electronics Engineering	10
	171ES2T03	Engineering Drawing	191ES2T04	Engineering Mechanics	10
	171ES2T08	Theory of Machines	191HS2L02	Communicative English Lab-II	0
	171HS2L02	English Communication Skills Lab – II	191BS2L04	Engineering Chemistry Lab	50
	171BS2L02	Engineering Physics Lab	191ES2L03	Essential Electrical and Electronics Engineering Lab	100
	171ES2L02	Engineering Workshop & IT Workshop	191ES2L14	Agricultural Engineering Workshop	100
			191PR2P01	Engineering Exploration Project	100
	171AG3T01	Principles of Soil Science and Agronomy	171AG3T01	Principles of Soil Science and Agronomy	0
	171AG3T02	Renewable Energy Sources	171AG3T02	Renewable Energy Sources	0
	171AG3T03	Ground Water Hydrology, Wells and Pumps	171AG3T03	Ground Water Hydrology, Wells and Pumps	0
	171ES3T19	Properties and Strength of Materials	171ES3T19	Properties and Strength of Materials	0

III	171ES3T20	Electrical and Electronics Engineering	171ES3T20	Electrical and Electronics Engineering	0
	171ES3T21	Surveying and Leveling	171ES3T21	Surveying and Leveling	0
	171AG3L01	Soil Science and Agronomy Field Lab	171AG3L01	Soil Science and Agronomy Field Lab	0
	171ES3L11	Surveying and Leveling Lab	171ES3L11	Surveying and Leveling Lab	0
	171HS3A10	Employability Skills - I	171HS3A10	Employability Skills - I	0
	171HS3A09	Professional Ethics and Human Values	171HS3A09	Professional Ethics and Human Values	0
IV	171AG4T04	Thermodynamics and Refrigeration Systems	171AG4T04	Thermodynamics and Refrigeration Systems	0
	171AG4T05	Heat and Mass Transfer	171AG4T05	Heat and Mass Transfer	0
	171ES4T25	Fluid Mechanics and Open Channel Hydraulics	171ES4T25	Fluid Mechanics and Open Channel Hydraulics	0
	171AG4T06	Soil Mechanics	171AG4T06	Soil Mechanics	0
	171AG4T07	Surface Water Hydrology	171AG4T07	Surface Water Hydrology	0
	171AG4T08	Engineering Properties of Biological Materials and Food Quality	171AG4T08	Engineering Properties of Biological Materials and Food Quality	0
	171ES4L14	Fluid Mechanics and Open Channel Hydraulics Lab	171ES4L14	Fluid Mechanics and Open Channel Hydraulics Lab	0
	171ES4L15	Machine Drawing and Computer Graphics Lab	171ES4L15	Machine Drawing and Computer Graphics Lab	0
	171HS4A11	Employability Skills – II	171HS4A11	Employability Skills – II	0
	171HS4A08	Intellectual Property Rights and Patents	171HS4A08	Intellectual Property Rights and Patents	0
V	R1631351	Thermodynamics and Refrigeration systems	171AG5T09	Theory of Structures	0
	R1631352	Soil and Water Conservation Engineering	171AG5T10	Irrigation and Drainage Engineering	0
	R1631353	Agricultural Process Engineering	171AG5T11	Agricultural Process Engineering	20
	R1631354	Engineering Properties of Biological Materials and Food Quality	171AG5T12	Agricultural Extension Techniques and Business Management	0
	R1631355	Managerial Economics & Financial Analysis	171AG5T13	Farm Power and Tractor Systems	20
	R1631356	Agricultural Process Engineering Lab	171AG5E01	Agro Industries and Bi-Product Utilization	0
	R1631357	Advanced English Communications Skills Lab	171HS5E01	Managerial Economics and Financial Analysis	20
	R1631358	Field Operation and Maintenance of Tractors Lab - I	171AG5E02	Rural Water Supply, Sanitation and Environmental Engineering	100
	R1631029	IPR & Patents	171HS5T06	Employability Skills - III	100
			171AG5L02	Agricultural Process Engineering Lab	0
			171AG5L03	Field Operation and Maintenance of Tractors Lab	20
			171AG5S01	MOOCs – I	100

VI	R1632351	Irrigation and Drainage Engineering	171AG6T15	Farm Machinery and Equipment – I	0
	R1632352	Farm Machinery and Equipment - I	171AG6T16	Design of Soil, Water Conservation and Farm Structures	0
	R1632353	Design of Soil Water Conservation and Farm Structures	171AG6T17	Post Harvest Engineering for Horticulture Produce	0
	R1632354	Dairy and Food Engineering	171AG6E03	GIS and Remote Sensing	0
	R163235A	Operations Research	171AG6E04	Human Engineering and Safety	0
	R163235B	Digital Control Systems	171AG6E05	Production Technology of Agricultural Machinery	10
	R163235C	Robotics& Automation	171AG6E06	Green House / Poly House Technology	100
	R163235D	Industrial Pollution Control Engineering	171AG6E07	Optimization, Operations Research and Systems Engineering	100
	R163235E	Finite Element Method	171AG6E08	Industrial Engineering and Management	100
	R163235F	Water Resources System Planning and Management	171HS6T07	Employability Skills - IV	100
	R1632356	Farm Machinery Lab - I	171AG6L04	Farm Machinery Lab - I	20
	R1632357	Field Operation and Maintenance of Tractors Lab - 2	171AG6L05	Soil and Water Engineering Lab	0
	R1632358	Soil and Water Engineering Lab	171AG6S02	MOOCs - II	100
VII	RT41351	Micro irrigation engineering	R1641351	Micro Irrigation Engineering	0
	RT41352	Farm machinery and equipments II	R1641352	Farm Machinery and Equipment-II	0
	RT41353	Post harvest engineering for horticulture produce	R1641353	Post- Harvest Engineering for Horticulture Produce	0
	RT41354	Mechanical measurements and instrumentation	R1641354	Mechanical Measurements and Instrumentation	0
	RT41355	Seed processing and storage engineering	R164135A	Seed Processing and Storage Engineering	0
	RT41356	Managerial economics & financial Analysis	R164135B	Green House Technologies	100
	RT41357	Food processing plant design and layout	R164135C	Food Processing Plant Design and Layout	0
	RT41358	Watershed management	R164135D	Watershed Management	0
	RT41359	Food packaging technology	R164135E	Food Packaging Technology	0
	RT41310	Computational Fluid Dynamics	R164135F	Minor Irrigation and Command area development	0
	RT4135L	Field operation and maintenance of tractors and farm machinery lab	R1641357	Farm Machinery Lab-2	0
	RT4135M	Dairy and food engineering lab	R1641358	Dairy and Food Engineering Lab	0
VIII	RT42351	Design of agricultural machinery	R1642351	Design of Agricultural Machinery	20
	RT42352	Agro industries and bi-product utilization	R1642352	Agricultural Extension Techniques and Business Management	0
	RT42353A	GIS and remote sensing	R1642353	Agro Industries and Bi-product Utilization	0
	RT42353B	Human engineering and safety	R164235A	GIS and remote sensing	0
	RT42353C	Production Technology of Agricultural Machinery	R164235B	Human engineering and safety	0

RT42354C	Principles of entrepreneurship	R164235C	Production Technology of Agricultural Machinery	0
RT42354A	Minor Irrigation and Command area development	R1642355	Seminar	0
RT42354B	Hydraulic Devices and Control	R1642356	Project	0
RT42355	Project work			


Program Coordinator


Head of the Department
Head of the Department
Department of Agricultural Engineering
ADITYA ENGINEERING COLLEGE (A9)



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Department of Mining Engineering

List of the Courses for The Academic year 2018-19			List of the Courses for The Academic year 2019-20		
Semester	Course Code	Course Name	Course Code	Course Name	Percentage of content changed for existing year
I	171HS1T01	English - I	191HS1T01	Communicative English	90
	171BS1T01	Mathematics - I	191BS1T01	Differential Equations and Linear Algebra	20
	171HS1T02	Environmental Studies	191MC1A01	Environmental Science	60
	171BS1T03	Engineering Chemistry	191ES1T01	Programming for Problem Solving Using C	0
	171ES1T02	Engineering Mechanics	191BS1L01	Engineering Physics Lab	0
	171ES1T01	Computer Programming	191ES1L01	Programming for Problem Solving Using C Lab	60
	171HS1L01	English Communication Skills Lab - I	191HS1L01	Communicative English Lab-I	10
	171BS1L01	Engineering Chemistry Lab	191ES1L02	Basic Engineering Workshop	20
	171ES1L01	Computer Programming Lab	191BS1T02	Engineering Physics	25
			191MC1A02	Constitution of India	100
II	171HS2T03	English - II	191BS2T05	Partial Differential Equations and Vector Calculus	40
	171BS2T02	Mathematics - II	191BS2T06	Chemistry of Materials	70
	171BS2T06	Mathematics - III	191ES2T04	Engineering Mechanics	20
	171BS2T07	Engineering Physics	191HS2L02	Communicative English Lab-II	20
	171ES2T03	Engineering Drawing	191ES2T02	Engineering Graphics and Design	20
	171ES2T05	Basic Electrical and Electronics Engineering	191ES2T03	Essential Electrical and Electronics Engineering	0
	171HS2L02	English Communication Skills Lab - II	191BS2L04	Engineering Chemistry Lab	50
	171BS2L02	Engineering Physics Lab	191ES2L03	Essential Electrical and Electronics Engineering Lab	5
	171ES2L02	Engineering Workshop and ITWorkshop	191ES2L12	Mining Engineering Workshop	100
			191PR2P01	Engineering Exploration Project	100
	171MI3T01	Introduction To Mining Technology	171MI3T01	Introduction To Mining Technology	0
	171MI3T02	Basic Mechanical Engineering For Mines	171MI3T02	Basic Mechanical Engineering For Mines	0
	171BS3T10	Probability and Statistics	171BS3T10	Probability and Statistics	0
	171ES3T22	Material Engineering	171ES3T22	Material Engineering	0

III	171MI3T03	Mining Geology-I	171MI3T03	Mining Geology-I	0
	171ME3T01	Computer Aided Engineering Drawing Practice	171ME3T01	Computer Aided Engineering Drawing Practice	0
	171ES3L12	Electrical and Electronics Lab	171ES3L12	Electrical and Electronics Lab	0
	171ES3L13	Basic Mechanical Engineering Lab	171ES3L13	Basic Mechanical Engineering Lab	0
	171HS3A09	Professional Ethics and Human Values	171HS3A09	Professional Ethics and Human Values	0
	171HS3A10	Employability Skills-I	171HS3A10	Employability Skills-I	0
IV	171ES4T27	Kinematics Of Machinery	171ES4T27	Kinematics Of Machinery	0
	171MI4T04	Computer Application In Mining	171MI4T04	Computer Application In Mining	0
	171MI4T05	Mining Geology –II	171MI4T05	Mining Geology –II	0
	171MI4T06	Mine Surveying – I	171MI4T06	Mine Surveying – I	0
	171MI4T07	Surface Mining	171MI4T07	Surface Mining	0
	171MI4T08	Fundamentals Of Rock Mechanics	171MI4T08	Fundamentals of Rock Mechanics	0
	171MI4L01	Geology Lab	171MI4L01	Geology Lab	0
	171MI4L02	Computer Application In Mining Lab	171MI4L02	Computer Application In Mining Lab	0
	171HS4A08	Intellectual Property Rights and Patents	171HS4A08	Intellectual Property Rights and Patents	0
	171HS4A11	Employability Skills-II	171HS4A11	Employability Skills-II	0
V	R1631261	Underground Coal Mining Technology	171MI5T09	Under Ground Coal Mining Technology	0
	R1631262	Mine Environment Engineering – I	171MI5T10	Mine Environment Engineering - I	10
	R1631263	Electrical Equipment in Mines	171MI5T11	Basic Geo Mechanics	50
	R1631264	Mine Surveying– II	171MI5T12	Mine Surveying - II	10
	R1631265	Mining Machinery & Mechanization – I	171HS5T04	Managerial Economics and Financial Analysis	50
	R1631266	Advanced English Communication Skills Lab	171MI5E01	Maintenance and Reliability Engineering	100
	R1631267	Mine Surveying Lab	171MI5L04	Mine Surveying Lab	30
	R1631268	Mechanical Engineering Lab	171MI5E03	Industrial Management and Labor Relations	100
	R1631269	Mine Field visit(Mandatory)	171HS5T06	Employability Skills – III	100
			171MI5L03	Rock Mechanics Lab	50
			171MI5E02	Mine Construction and Management	0
			171MI5S01	MOOCs - I	100
	R1632261	Mine Systems Engineering	171MI6T13	Under Ground Metal Mining Technology	0

VI	R1632262	Mineral Engineering and Fuel Technology	171MI6T14	Mineral Processing Technology	40
	R1632263	Mine Environmental Engineering – II	171MI6T15	Mine Environment Engineering - II	15
	R1632264	Mining Machinery & Mechanization – II	171MI6T16	Mining Machinery	50
	R1632035C	Industrial Robotics	171MI6E04	Advanced Geo Mechanics	40
	R1632035A	Entrepreneurship	171MI6E05	Mine Fire and Spontaneous Heating	70
	R1632265A	Quality and Reliability Engineering	171MI6E06	Mineral Exploration	100
	R1632015D	Waste Water Management	171MI6E07	Advance Surveying Technology	100
	R1632265B	Rock Excavation Engineering	171MI6E08	Mine Subsidence Engineering	100
	R163226C	Mine Safety Engineering	171MI6E09	Rock Fragmentation Engineering	50
	R1632266	Mineral Engineering Lab	171HS6T07	Employability Skills - IV	100
	R1632267	Environmental Engineering Lab	171MI6L06	Environmental Engineering Lab	40
	R1632268	Mine Planning & Design Lab	171MI6L05	Mineral Processing Technology Lab	0
	R1632268	Industrial Training	171MI6S02	MOOCs II	100
VII	RT41261	Mine Economics	R1641262	Underground Metal Mining Technology	100
	RT41262	Computer Applications in Mining	R1641261	Computer Applications in Mining	0
	RT41263	Rock Mechanics & Ground Control	R1641263	Rock Mechanics & Ground Control	0
	RT41264	Mine Legislation & General Safety	R1641264	Mine Legislation & General Safety	0
	RT41265	Industrial Robotics	R164126A	Rock Slope Engineering	30
	RT41266	Environmental Impact Assessment	R164126B	Mine Subsidence Engineering	0
	RT41267	Numerical Methods	R164126C	Rock Fragmentation Engineering	0
	RT41268	Industrial Management	R164126D	Deep Sea Mining	0
	RT4126L	Computer Applications in Mining Lab	R164126E	Mine Construction Engineering	0
	RT4126M	Rock Mechanics & Ground Control Lab	R164126F	Tunneling Engineering	0
	RT4126N	Short Survey Camp (One Week)	R1641268	Rock Mechanics & Ground Control Lab	
			R1641267	Computer Applications in Mining Lab	100
			R1641019	IPR & Patents	10
	RT42031	Production Planning and Control	R1642031	Production Planning and Control	0
	RT42262A	Deep Sea Mining		Short Survey Camp (One Week)	
	RT42262B	Mine Construction	R1642261	Mine Economics & Investment	100

VIII	RT42262C	Tunneling Engineering	R1642262	Mine Health and Safety Engineering	0
	RT42263A	Planning of Under Ground Metal Mining Project	R164226A	Planning of Underground Metal Mining Projects	0
	RT42263B	Planning of Under Ground Coal Mining Project	R164226B	Planning of Underground Coal Mining Projects	0
	RT42263C	Planning of Surface Mining Projects	R164226C	Planning of Surface Mining Projects	0
	RT42264A	Maintenance & Reliability Engineering	R1642265	Seminar	0
	RT42264B	Rock Excavation Engineering			
	RT42264C	Mine Health and Safety Engineering			
	RT42265	Project	R1642266	Project	0


Program Coordinator


Head of the Department
Head of the Department
DEPARTMENT OF MINING ENGINEERING
ADITYA ENGINEERING COLLEGE (A.P.)



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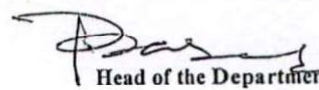
Department of Mechanical Engineering

Thermal Engineering

List of Courses for the Academic Year 2018-19			List of Courses for the Academic Year 2019-20		
Semester	Course Code	Course Name	Course Code	Course Name	Percentage of content changed for existing year
I	172TE1T01	Optimization Techniques & Applications	192TE1T01	Advanced Fluid Mechanics	0
	172TE1T02	Advanced Thermodynamics	192TE1T02	Computational Fluid Dynamics	0
	172TE1T03	Advanced Heat & Mass Transfer	192TE1E01	Advanced IC Engines, Electric and	0
	172TE1T04	Advanced Fluid Mechanics	192TE1E02	Gas Dynamics	0
	172TE1E01	Gas Dynamics	192TE1E03	Cryogenic Engineering	0
	172TE1E02	Refrigeration & Cryogenics	192TE1E04	Advanced Thermodynamics	0
	172TE1E03	Renewable Energy Technologies	192TE1E05	Gas Turbines	40
	172TE1E04	Theory and Technologies of Fuel Cells	192TE1E06	Alternative Fuel Technologies	0
	172TE1E05	Advanced IC Engines	192TE1E07	Energy Conservation and Management	30
	172TE1E06	Solar Energy Technology	192TE1E08	Theory And Technology of Fuel Cells	0
	172TE1E07	Turbo Machines	192HS1T01	Research Methodology And IPR	100
	172TE1E08	Alternative Fuels Technologies	192TE1L01	Computational Fluid Dynamics Lab-I	60
	172TE1L01	Thermal Engineering Lab	19TE1L02	Thermal Engineering Lab -I	50
			192MC1A01/ 192MC2A01	English for Research Paper Writing	100
			192MC1A02/ 192MC2A02	Disaster Management	100
II			192MC1A03/ 192MC2A03	Sanskrit for Technical Knowledge	100
			192MC1A04/ 192MC2A04	Value Education	100
			192MC1A05/ 192MC2A05	Constitution of India	100
			192MC1A06/ 192MC2A06	Pedagogy Studies	100
			192MC1A07/ 192MC2A07	Stress Management By YOGA	100
			192MC1A08/ 192MC2A08	Personality Development Through Life Enlightenment Skills	100
			192MC1A09/ 192MC2A09	Soft Skills	100
	172TE2T05	Fuels, Combustion & Environment	192TE2T03	Advanced Heat Transfer	0
	172TE2T06	Energy Management	192TE2T04	Thermal Measurements and Process Controls	0
	172TE2T08	Finite Element Method	192TE2E09	Equipment Design for Thermal Systems	0
	172TE2T07	Computational Fluid Dynamics	192TE2E10	Solar Energy Technologies	0
	172TE2E09	Materials Technology	192TE2E11	Advanced Power Plant Engineering	48
	172TE2E10	Convective Heat Transfer	192TE2E12	Combustion, Emissions and Environment	40
	172TE2E11	Thermal and Nuclear Power Plants	192TE2E13	Jet Propulsion and Rocket Engineering	0
	172TE2E12	Advanced Automobile Engineering	192TE2E14	Automotive Engineering	30
	172TE2E13	Thermal Measurements and Process Controls	192TE2E15	Modeling And I.C. Engines	100
	172TE2E14	Cryogenic Engineering	192TE2E16	Renewable Energy Technologies	0
	172TE2E15	Jet Propulsion and Rocketry	192TE2L03	Computational Fluid Dynamics Lab-II	30

	172TE2E16	Equipment Design for Thermal Systems	192TE2L04	Thermal Engineering Lab -II	30
	172TE2L02	Thermal Systems Design Lab	192TE2P01	Mini Project with Seminar	0
	172TE3C01	Comprehensive Viva-Voce	172TE3C01	Comprehensive Viva-Voce	0
	172TE3R01	Seminar – I	172TE3R01	Seminar – I	0
III		Project Work Part - I		Project Work Part - I	0
	172TE4C02	Seminar – II	172TE4C02	Seminar – II	0
IV	172TE4P01	Project Work Part - II	172TE4P01	Project Work Part - II	0


Program Coordinator


Head of the Department

Head of the Department
Department of Mechanical Engineering
Aditya Engineering College (A)
SURAMPALEM-533 437



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Department of Electrical and Electronics Engineering

Power Electronics and Electric Drives

List of Courses for the Academic Year 2018-19

Semester	Course Code	Course Name
I	172PD1T01	Electrical Machine Modeling & Analysis
	172PD1T02	Analysis of Power Electronic Converters
	172PD1T03	Power Electronic Control of DC Drives
	172PD1T04	Flexible AC Transmission Systems
	172PD1E01	Modern Control Theory
	172PD1E02	Power Quality
	172PD1E03	Optimization Techniques
	172PD1E04	Energy Auditing, Conservation & Management
	172PD1E05	Artificial Intelligence Techniques
	172PD1E06	HVDC Transmission
	172PD1L01	Simulation Lab
II	172PD2T05	Switched Mode Power Conversion
	172PD2T06	Power Electronics Control of AC Drives
	172PD2T07	Digital Controllers
	172PD2T08	Custom Power Devices
	172PD2E07	Renewable Energy Systems
	172PD2E08	Reactive Power Compensation & Management

List of Courses for the Academic Year 2019-20

Course Code	Course Name	Percentage of content changed for existing
192PD1T01	Electrical Machine Modeling and Analysis	0
192PD1T02	Analysis of Power Electronic Converters	20
192PD1E01	Modern Control Theory	0
192PD1E02	Power Quality and Custom Power Devices	0
192PD1E03	Programmable Logic Controllers & Applications	0
192PD1E04	Artificial Intelligence Techniques	88
192PD1E05	Renewable Energy Technologies	54
192PD1E06	HVDC Transmission and Flexible AC Transmission Systems	62
192HS1T01	Research Methodology and IPR	100
192PD1L01	Power Electronics Simulation Laboratory	100
192PD1L02	Power Converters Laboratory	70
19MC1A01 19MC2A01	English for Research Paper Writing	100
19MC1A02 19MC2A02	Disaster Management	100
19MC1A03 19MC2A03	Sanskrit for Technical Knowledge	100
19MC1A04 19MC2A04	Value Education	100
19MC1A05 19MC2A05	Constitution of India	100
19MC1A06 19MC2A06	Pedagogy Studies	100
19MC1A07 19MC2A07	Stress Management by Yoga	100
19MC1A08 19MC2A08	Personality Development through Life Enlightenment Skills	100
19MC1A09 19MC2A09	Soft Skills	100
192PD2T03	Switched Mode Power Conversion	10
192PD2T04	Power Electronic Control of Electrical Drives	80
192PD2E07	Control & Integration of Renewable Energy Systems	100
192PD2E08	Hybrid Electric Vehicles	100
192PD2E09	Digital Control Systems	100
192PD2E10	Advanced Digital Signal Processing	100

	172PD2E09	Electrical Distribution System	192PD2E11	Applications of Power Converters	100
	172PD2E10	Smart Grid Technologies	192PD2E12	Microcontrollers	0
	172PD2E11	Special Machines	192PD2L03	Electric Drives Simulation Laboratory	100
	172PD2E12	Programmable Logic Controllers & Applications	192PD2L04	Electric Drives Laboratory	74
	172PD2L02	Power Converters & Drives Lab	192PD2P01	Mini Project with Seminar	0
III	172PD3C01	Comprehensive Viva-Voce	172PD3C01	Comprehensive Viva-Voce	0
	172PD3R01	Seminar – I	172PD3R01	Seminar – I	0
	---	Project Work Part - I	---	Project Work Part - I	0
IV	172PD4R02	Seminar – II	172PD4R02	Seminar – II	0
	172PD4P01	Project Work Part - II	172PD4P01	Project Work Part - II	0



Program Coordinator



Head of the Department

Head of The Department
Dept. Of Electrical & Electronics Engineering
Aditva Engineering College (A9)



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Program: M. Tech in Computer Science and Engineering

List of courses for the Academic Year 2018-2019

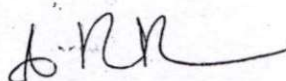
Semester	Course Code	Course Name
I	172CO1T01	Advanced Data Structures & Algorithm Analysis
	172CO1T02	Database Management System
	172CO1T03	Computer Organization & Architecture
	172CO1T04	Mathematical Foundations of Computer Science
	172CO1T05	Computer Networks
	172CO1E01	Software Engineering
	172CO1E02	Advanced Operating Systems
	172CO1E03	Compiler Design
	172CO1E04	Human Computer Interaction
	172CO1L01	Advanced Data Structures & Database Management Systems Lab
II	172CO2T06	Cyber Security
	172CO2T07	Data Ware Housing & Data Mining
	172CO2T08	Big Data Analytics
	172CO2T09	Advanced Unix Programming
	172CO2E05	Machine Learning
	172CO2E06	Digital Image Processing
	172CO2E07	Mobile Computing
	172CO2E08	Cloud Computing
	172CO2E09	Internet of Things
	172CO2E10	Bio Informatics
	172CO2L02	Advanced Unix Programming and Hadoop & Bigdata Lab

List of courses for the Academic Year 2019-2020

Course Code	Course Name	% of content revised for the existing year
192CS1T01	Mathematical Foundations of Computer Science	80
192CS1T02	Advanced Data Structures & Algorithms	0
192CS1E01	Big Data Analytics	60
192CS1E02	Digital Image Processing	0
192CS1E03	Advanced Operating Systems	0
192CS1E04	Advanced Computer Networks	100
192CS1E05	Internet of Things	80
192CS1E06	Object Oriented Software Engineering	100
192HS1T01	Research Methodology and IPR	0
192CS1L01	Advanced Data Structures & Algorithms Lab	100
192CS1L02	Advanced Computing Lab	100
192CS2T03	Machine learning	85
192CS2T04	MEAN Stack Technologies	100
192CS2E07	Advanced Databases and Mining	100
192CS2E08	Ad Hoc & Sensor Networks	100
192CS2E09	Soft Computing	100
192CS2E10	Cloud Computing	0
192CS2E11	Principles of computer security	100
192CS2E12	High Performance Computing	100
192CS2L03	Machine Learning with Python lab	100
192CS2L04	MEAN Stack Technologies Lab	100
192CS2P01	Mini Project with Seminar	100
192MC1A01// 192MC2A01	English for Research Paper Writing	100
191MC2A02 /192MC2A02	Disaster Management	100
192MC1A03// 192MC2A03	Sanskrit for Technical Knowledge	100

			192MC1A04/1 92MC2A04	Value Education	100
			192MC1A05/1 92MC2A05	Constitution of India	100
			192MC1A06 /192MC2A06	Pedagogy Studies	100
			192MC1A07 /192MC2A07	Stress Management by Yoga	100
			192MC1A08 /192MC2A08	Personality Development through Life Enlightenment Skills	100
			192MC1A09 /192MC2A09	Soft Skills	100
III	172CO3C01	Comprehensive Viva-Voce	172CO3C01	Comprehensive Viva-Voce	0
	172CO3R01	Seminar - I	172CO3R01	Seminar - I	0
IV	172CO4R02	Seminar - II	172CO4R02	Seminar - II	0
	172C04P01	Project Work Part- - II	172C04P01	Project Work Part- - II	0


Program Coordinator


Head of the Department
Head of the Department
Department of CSE
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Department of Electronics and Communication Engineering

Programme Name : M.Tech VLSI Design

List of Courses for the Academic Year 2018-2019			List of Courses for the Academic Year 2019-2020		
Semester	Course Code	Course Name	Course Code	Course Name	Percentage of content changed for existing year
I	172EM1T01	Digital System Design	192VD1T01	CMOS Analog IC Design	0
	172VD1T01	VLSI Technology & Design	192VD1T02	CMOS Digital IC Design	0
	172VD1T02	CMOS Analog IC Design	192HS1T01	Research methodology and IPR	100
	172VD1T03	CMOS Digital IC Design	192VD1E01	VLSI Technology	100
	172EM1E01	Cyber Security	192VD1E02	Nano materials and Nanotechnology	100
	172VD1E01	Digital Design using HDL	192VD1E03	MEMS Technology	100
	172CO1E02	Advanced Operating Systems	192VD1E04	Device Modelling	100
	172EM1E03	Soft Computing Techniques	192VD1E05	Nano-Electronics	100
	172VD1E02	CPLD / FPGA Architectures & Applications	192VD1E06	Photonics	100
	172VD1E03	Hardware Software Co - Design			
	172EM1E07	Advanced Computer Architecture	192VD1L01	CMOS Analog IC Design Lab	100
	172VD1L01	Front End VLSI Design - Lab			
II	172VD2T04	CMOS Mixed Signal Circuit Design	192VD1L02	CMOS Digital IC Design Lab	100
	172VD2T05	Embedded System Design	192MC1A01	English for Research Paper Writing	100
	172VD2T06	Low Power VLSI Design	192MC1A02	Disaster Management	100
	172VD2T07	Design For Testability	192MC1A03	Sanskrit for Technical Knowledge	100
			192MC1A04	Value Education	100
	172VD2E04	CAD for VLSI	192MC1A05	Constitution of India	100
			192MC1A06	Pedagogy Studies	100

List of Courses for the Academic Year 2018-2019			List of Courses for the Academic Year 2019-2020		
Semester	Course Code	Course Name	Course Code	Course Name	Percentage of content changed for existing year
II	172EM2T06	DSP Processors & Architectures	192MC1A07	Stress Management by Yoga	100
			192MC1A08	Personality Development through Life Enlightenment Skills	100
	172VD2E05	VLSI Signal Processing	192MC1A09	Soft Skills	100
			192VD2T03	Mixed Signal & RF IC Design	100
	172EM2E08	System on Chip Design	192VD2T04	Physical Design Automation	100
			192VD2E07	Design For Testability	0
	172VD2E06	Optimization Techniques in VLSI Design	192VD2E08	IoT & Its Applications	100
			192VD2E09	VLSI Signal Processing	10
	172VD2E07	Semiconductor Memory Design and Testing	192VD2E10	Microcontrollers & programmable Digital Signal Processors	100
			192EM2E11	Network Security & Cryptography	100
III	172VD2L02	Back end VLSI Design Laboratory	192VD2E11	Low Power VLSI Design	40
			192VD2L03	Mixed Signal IC Design Lab	100
	172VD3C01	Comprehensive Viva-Voce	192VD2L04	Physical Design Automation Lab	100
IV	172VD3R01	Seminar – I	192VD2P01	Mini Project with Seminar	100
	-	Project Work Part – I	172VD3C01	Comprehensive Viva-Voce	0
	172VD4R02	Seminar – II	172VD3R01	Seminar – I	0
			-	Project Work Part – I	0
	172VD4P01	Project Work Part - II	172VD4R02	Seminar – II	0
			172VD4P01	Project Work Part - II	0


Program Coordinator


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Head of the Department
Department of E.C.E.
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Program Name: M.Tech Structural Engineering Comparison of new courses introduced in the academic year 2019-2020

List of Courses for the Academic Year 2018-2019			List of Courses for the Academic Year 2019-2020			
Semester	Course Code	Course Name	Semester	Course Code	Course Name	Percentage of content changed for existing year
I	172SE1T01	Advanced Mathematics	I	192ST1T01	Theory of Elasticity	0
	172SE1T02	Theory of Elasticity		192ST1T02	Structural dynamics	33
	172SE1T03	Matrix Analysis of Structures		192ST1T03	Advanced Concrete Technology	100
	172SE1T04	Structural Dynamics		192ST1E03	Design of RCC Foundations	100
	172SE1E01	Experimental Stress Analysis		192ST1E01	Matrix Analysis of Structures	0
	172SE1E02	Sub Structure Design		192ST1E02	Analytical & Numerical Method for Structural Engineering	100
	172SE1E03	Structural Optimization		192ST1E05	Repair & Rehabilitation of Structures	0
	172SE1E04	Repair and Rehabilitation of Structures		192ST1E04	Bridge Engineering	50
	172SE1E05	Analysis and Design of Tall Building		192ST1E06	Advanced Reinforced Concrete Design	100
	172SE1E06	Plastic Analysis and Design		192ST1L01	Advanced Concrete Technology Laboratory	0
II	172SE1L01	Advanced Structural Engineering Laboratory	II	192ST1L02	Advanced Structural Engineering Laboratory	0
	172SE2T05	Finite Element Method		192ST2T04	Finite Element Methods in Structural Engineering	0
	172SE2T06	Earthquake Resistant Design		192ST2T05	Theory of Plates and Shells	0
	172SE2T07	Stability of Structures		192ST2E07	Stability of Structures	0
	172SE2T08	Theory of Plates & Shells		192ST2E08	Advanced Steel Design	100
	172SE2E07	Prestressed Concrete		192ST2E09	Analysis of offshore Structures	100
	172SE2E08	Mechanics of Composite Materials		192ST2E10	Earthquake Resistant Design of Buildings	0
	172SE2E09	Fracture Mechanics		192ST2E11	Precast and Prefabricated Structures	100
	172SE2E10	Industrial Structures		192ST2E12	Earth Retaining Structures	100
	172SE2E11	Bridge Engineering		192ST2L03	Computer Aided Design Laboratory	0
	172SE2E12	Earth Retaining Structures		192ST2L04	Structural Design Laboratory	100

	172SE2L02	CAD Laboratory		192ST2P01	Mini Project With Seminar	0
III	172SE3C01	Comprehensive Viva - Voce	I/II	192MC1A01/1 92MC2A01	English for Research Paper Writing	100
	172SE3R01	Seminar-1		192MC1A02/1 92MC2A02	Disaster Management	100
		Project Work Part -1		192MC1A03/1 92MC2A03	Sanskrit for Technical Knowledge	100
IV	172SE4R02	Seminar -II		192MC1A04/1 92MC2A04	Value Education	100
	172SE4P01	Project Work Part -II		192MC1A05/1 92MC2A05	Constitution of India	100
				192MC1A06/1 92MC2A06	Pedagogy Studies	100
				192MC1A07/1 92MC2A07	Stress Management by Yoga	100
				192MC1A08/1 92MC2A08	Personality Development through Life Enlightenment Skills	100
				192MC1A09/1 92MC2A09	Soft Skills	100
			III	172SE3C01	Comprehensive Viva - Voce	0
				172SE3R01	Seminar-1	0
					Project Work Part -1	0
			IV	172SE4R02	Seminar -II	0
				172SE4P01	Project Work Part -II	0


Program coordinator


Head of the Department
Head of the Department
Dept. of Civil Engineering
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DEPARTMENT OF PETROLEUM TECHNOLOGY

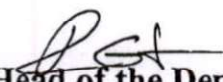
Programme Name :M. Tech PE

List of courses for the Academic Year 2018-2019			List of courses for the Academic Year 2019-2020		
Semester	Course Code	Course Name	Course Code	Course Name	% of content revised for the existing year
I	172PE1T01	Advanced Numerical Methods and Applied Statistics	192PE1T01	Offshore Drilling.	0
	172PE1T05	PE Stream: Offshore Drilling	192PE1T02	Fundamentals of Petroleum Geology and Reservoir Engineering. (NON-PE stream)	0
	172PE1T06	Non-PE Stream: Fundamentals of Petroleum Geology and Reservoir Engineering	192PE1T03	Reservoir Stimulation (PE stream)	0
	172PE1T07	Reservoir stimulation	192PE1T04	Petroleum Well Drilling and Production Engineering. (NON-PE stream)	0
	172PE1T08	Non-PE Stream: Petroleum Drilling and Production Engineering	192PE1E01	Advanced Numerical Methods and Applied Statistics	0
	172PE1T02	Transportation of Oil and Gas	192PE1E02	CBM and Shale Gas Engineering	100
	172PE1T03	Advanced EOR Techniques for field developments	192PE1E03	Transportation of Oil and Gas	100
	172PE1T04	Project Management	192PE1E04	Advanced Well Logging Techniques and Well Testing Analysis	100
	172PE1L01	Advanced Numerical Methods and Applied Statistics (MATLAB Based) Lab	192HS1T01	Research Methodology and IPR	100
			192PE1L01	Advanced Numerical Methods and	0

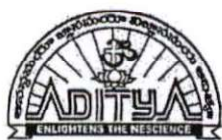
			192PE1L02	Drilling Simulation Laboratory	100
II	172PE2T09	Advanced Natural Gas Engineering	192PE2T05	Artificial Lift Techniques	0
	172PE2T10	Artificial Lift Techniques	192PE2T06	Reservoir Modeling and Simulation	0
	172PE2T11	Operational Aspects of Well Testing	192PE2E05	Advanced EOR Techniques	100
	172PE2T12	Integrated Reservoir Management	192PE2E06	Advanced Well Completions	100
	172PE2E01	Practical Reservoir Modeling and Simulation	192PE2E07	Flow Assurance	0
	172PE2E02	Optimization of Oil and Gas Production	192PE2E08	Advanced Horizontal Well Technology	100
	172PE2E03	Flow Assurance	192PE2L03	Reservoir Simulation Laboratory	0
	172PE2E04	Process Safety and Environmental Aspects in Petroleum Industry	192PE2L04	Flow Assurance Laboratory	100
	172PE2E05	Deep Water Technologies	192PE2P01	Mini Project with Seminar	0
	172PE2E06	Characterization of Petroleum Oils	192MC1A01/ 192MC2A01	English for Research Paper Writing	100
	172PE2L02	Reservoir Simulation Lab	192MC1A02/ 192MC2A02	Disaster Management	100
			192MC1A03/ 192MC2A03	Sanskrit for Technical Knowledge	100
			192MC1A04/ 192MC2A04	Value Education	100
			192MC1A05/ 192MC2A05	Constitution of India	100
			192MC1A06/ 192MC2A06	Pedagogy Studies	100
			192MC1A07/ 192MC2A07	Stress Management by Yoga	100

			192MC1A09/ 192MC2A09	Soft Skills	100
III	172PE3C01	Comprehensive Viva-Voce	172PE3C01	Comprehensive Viva-Voce	0
	172PE3R01	Seminar - I	172PE3R01	Seminar - I	0
	172PE3R02	Project Work Part- - I	172PE3R02	Project Work Part- - I	0
IV	172PE4R01	Project Work Part- - II	172PE4R01	Project Work Part- - II	0
	172PE4R02	Seminar - II	172PE4R02	Seminar - II	0


Programme Coordinator


Head of the Department

Head of the Department
Department of Petroleum Technology
Aditya Engineering College
SURAMPALÉM-533 437



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Department of M.Tech (Software Engineering)

List of Courses for the Academic Year 2018-2019			List of Courses for the Academic Year 2019-2020		
Semester	Course Code	Course Name	Course Code	Course Name	Percentage of content changed for existing year
	172SO1T01	Software Requirements And Estimation	192SO1T01	Software Engineering	100
	172SO1T02	Software Metrics And Reuse	192SO1T02	Advanced Data Structures	100
	172SO1T03	Software Project And Process Management	192SO1E01	Software Project and Process Management	
	172SO1T04	Big Data Analytics	192SO1E02	Machine Learning	100
	172SO1E01	Web Technologies	192SO1E03	E-Commerce	
	172SO1E02	Middleware Technologies	192SO1E04	Software Quality Assurance and Testing	
	172SO1E03	Mobile Computing	192SO1E05	Cloud Computing	
	172SO1E04	E-Commerce	192CO1E05	Internet of Things	100
	172SO1E05	Scripting Languages	192HS1T01	Research Methodology and IPR	100
			192SO1L01	Advanced Data Structures Lab	100
			192SO1L02	Software Engineering Lab – I	100
			192MC1A01	English for Research Paper Writing	100

			192MC1A02	Disaster Management	100
			192MC1A03	Sanskrit for Technical Knowledge	100
			192MC1A04	Value Education	100
			192MC1A05	Constitution of India	100
II	172SO1E06	ERP & Supply Chain Management	192SO2T03	Service Oriented Architecture	
	172SO1L01	Web Technologies & Big Data Analytics Lab	192SO2T04	Mathematical Foundations of Computer Science	100
	172SO2T05	Software Architecture And Design Patterns	192SO2E06	Software Testing Methodologies	100
	172SO2T06	Software Quality Assurance And Testing	192SO2E07	Agile Software Development	100
	172CO2T06	Cyber Security	192SO2E08	ERP and Supply Chain Management	
	172SO2T07	Service Oriented Architectures	192SO2E09	Secure Software Engineering	
	172SO2E07	Secure Software Engineering	192SO2E10	Big Data Analytics	
	172SO2E08	Systems Engineering	192SO2E11	Design Patterns	100
	172SO2E09	Soft Computing	192SE2L03	Software Testing Lab	100
	172SO2E10	User Interface Design	192SE2L04	Software Engineering Lab – II	100
	172CO2E08	Cloud Computing	192SE2P01	Mini Project with Seminar	100
	172CO2E09	Internet Of Things	192MC2A01	English for Research Paper Writing	100
	172SO2L02	Software Testing & Design Patterns Lab	192MC2A02	Disaster Management	100
			192MC2A03	Sanskrit for Technical Knowledge	100
			192MC2A04	Value Education	100
			192MC2A05	Constitution of India	100
			192MC2A06	Pedagogy Studies	100
			192MC2A07	Stress Management by Yoga	100
III	171SO3C01	Comprehensive Viva-Voce	192MC2A08	Personality Development through Life Enlightenment Skills	100

	171SO3R01	Seminar - I			100
	---	Project Work Part - I	192MC2A09	Soft Skills	
IV	171SO4R02	Seminar - II	171SO3C01	Comprehensive Viva-Voce	



Program Coordinator



Head of the Department

Head of the Department
Department of IT
Aditva Engineering College



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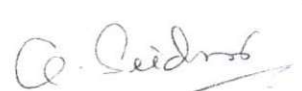
Department of Electronics and Communication Engineering

Programme Name : M.Tech Embedded Systems

List of Courses for the Academic Year 2018-2019			List of Courses for the Academic Year 2019-2020		
Semester	Course Code	Course Name	Course Code	Course Name	Percentage of content changed for existing year
I	172EM1T01	Digital System Design	192EM1T01	Embedded System Design	0
	172EM1T02	Embedded System Design	192EM1T02	Microcontrollers and Programmable Digital Signal Processors	100
	172EM1T03	Real Time Operating Systems	192EM1E01	Digital Signal and Image Processing	100
	172EM1T04	Embedded - C	192EM1E02	Parallel Processing	100
	172EM1E01	Cyber Security	192EM1E03	VLSI signal processing	100
	172EM1E02	Sensors and Actuators	192EM1E04	Programming Languages for Embedded Systems	100
	172CO1E02	Advanced Operating Systems	192EM1E05	System Design with Embedded Linux	100
	172EM1E03	Soft Computing Techniques	192EM1E06	CAD for Digital System	100
	172EM1E04	Embedded Computing	192HS1T01	Research methodology and IPR	100
	172EM1E05	Device Drivers	192EM1L01	Embedded System Design Lab (using Embedded-C)	100
	172EM1E06	Network Security and cryptography	192EM1L02	Microcontrollers and Programmable Digital Signal Processors Lab	100
	172EM1E07	Advanced Computer Architecture	192MC1A01	English for Research Paper Writing	100
	172EM1L01	Embedded Systems Lab	192MC1A02	Disaster Management	100
			192MC1A03	Sanskrit for Technical Knowledge	100
			192MC1A04	Value Education	100
			192MC1A05	Constitution of India	100
			192MC1A06	Pedagogy Studies	100
			192MC1A07	Stress Management by Yoga	100
			192MC1A08	Personality Development through Life Enlightenment Skills	100
			192MC1A09	Soft Skills	100

List of Courses for the Academic Year 2018-2019			List of Courses for the Academic Year 2019-2020		
Semester	Course Code	Course Name	Course Code	Course Name	Percentage of content changed for existing year
II	172EM2T05	Hardware Software Co - Design	192EM2T03	Digital System Design	0
	172EM2T06	DSP Processors & Architectures	192EM2T04	Real Time Operating Systems	0
	172EM2T07	Embedded Networking	192EM2E07	Memory Architectures	100
	172EM2T08	CPLD / FPGA Architectures & Applications	192EM2E08	SoC Design	100
	172EM2E08	System on Chip Design	192EM2E09	Sensors & Actuators	0
	172VD2T04	CMOS Mixed Signal Circuit Design	192EM2E10	Communication Buses and Interfaces	100
	172EM2E09	MEMS Design	192EM2E11	Network Security and Cryptography	60
	172EM2E10	Internet Protocols	192EM2E12	Physical Design Automation	100
	172VD2T07	Design For Testability	192EM2L03	Real Time Operating Systems Lab	0
	172EM2E11	Wireless LANs and PANs	192EM2L04	Digital System Design Lab	100
	172EM2E12	Multimedia & Signal Coding	192EM2P01	Mini Project with Seminar	100
	172EM2L02	Embedded Real Time Systems Lab			
III	172EM3C01	Comprehensive Viva-Voce	172EM3C01	Comprehensive Viva-Voce	0
	172EM3R01	Seminar - I	172EM3R01	Seminar - I	0
	-	Project Work Part - I	-	Project Work Part - I	0
IV	172EM4R02	Seminar - II	172EM4R02	Seminar - II	0
	172EM4P01	Project Work Part- - II	172EM4P01	Project Work Part- - II	0


Program Coordinator


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Head of the Department
Department of E.C.E.
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Department of Management Studies

Programme Name: MBA

List of Courses for the Academic Year 2018-2019				List of Courses for the Academic Year 2019-20		
Semester	Course Code	Course Name	Percent age of content changed for existing year	Course Code	Course Name	Percenta ge of content changed for existing year
I	174MB1T01	Principles of Management	0	194MB1T01	Management and Organizational Behavior	100
	174MB1T02	Managerial Economics	0			
	174MB1T03	Accounting for Managers	0	194MB1T02	Managerial Economics	40
	174MB1T04	Managerial Communication & Soft Skills	0	194MB1T03	Accounting for Managers	40
	174MB1T05	Business Environment	0	194MB1T04	Quantitative Analysis for Business Decisions	40
	174MB1T06	Quantitative Analysis for Business Decisions	0	194MB1T05	Legal and Business Environment	80
	174MB1L01	IT - LAB	0	194MB1T06	Business Communication and Soft Skills	40
				194MBMOOC1	MOOCs: SWAYAM/NPTEL.	100
				194MB1O01	Cross Cultural Management.	100
				194MB1O02	Rural Innovation Projects.	100

II	174MB2T07	Financial Management	0	194MB1L01	Business Communication and Soft Skills Lab.	100
	174MB2T08	Human Resource Management	0	194MB1L02	Information Technology – Lab – I (Spreadsheet and Tally)	100
	174MB2T09	Marketing Management	0	194MB2T07	Financial Management	0
	174MB2T10	Production & Operations Management	0	194MB2T08	Human Resource Management	0
	174MB2T11	Business Research Methods	0	194MB2T09	Marketing Management	0
	174MB2T12	Organizational Behavior	0	194MB2T10	Operations Management	0
	174MB2P01	Minor Project	0	194MB2T11	Business Research Methods	0
				194MB2O04	Project Management.	100
				194MB2L03	IT-Lab – 2 (R Programming)	100
				194MB2O05	Technology Management.	100
				194MB2O06	Lean Management.	100
				194MB2O07	Data base Management System.	100
	174MB3T13	Strategic Management	0	174MB3T13	Strategic Management	0
	174MB3T14	Legal Aspects of Business	0	174MB3T14	Legal Aspects of Business	0
	174MB3T15	Business Ethics & Corporate Governance	0	174MB3T15	Business Ethics & Corporate Governance	0
	174HR3E01	Leadership Management	0	174HR3E01	Leadership Management	0
	174HR3E02	Compensation & Reward Management	0	174HR3E02	Compensation & Reward Management	0
	174HR3E03	Performance Management	0	174HR3E03	Performance Management	0
	174HR3E04	Strategic Human	0	174HR3E04	Strategic Human	0

III		Resource Management			Resource Management	
	174FI3E01	Security Analysis & Portfolio Management	0	174FI3E01	Security Analysis & Portfolio Management	0
	174FI3E02	Banking & Insurance Management	0	174FI3E02	Banking & Insurance Management	0
	174FI3E03	Advance Management Accounting	0	174FI3E03	Advance Management Accounting	0
	174FI3E04	Strategic Financial Management	0	174FI3E04	Strategic Financial Management	0
	174MA3E01	Consumer Behavior	0	174MA3E01	Consumer Behavior	0
	174MA3E02	Retail Management	0	174MA3E02	Retail Management	0
	174MA3E03	Customer Relationship Management	0	174MA3E03	Customer Relationship Management	0
	174MA3E04	Strategic Marketing	0	174MA3E04	Strategic Marketing	0
	174MB4T16	Logistic & Supply Chain Management	0	174MB4T16	Logistic & Supply Chain Management	0
	174MB4T17	Entrepreneurship Development	0	174MB4T17	Entrepreneurship Development	0
	174HR4E01	Organizational Development & Change Management	0	174HR4E01	Organizational Development & Change Management	0
	174HR4E02	Global Human Resource Management	0	174HR4E02	Global Human Resource Management	0
	174HR4E03	Labor Welfare & Legislation	0	174HR4E03	Labor Welfare & Legislation	0
	174HR4E04	Management of Industrial Relations	0	174HR4E04	Management of Industrial Relations	0
	174FI4E01	Financial Markets & Services	0	174FI4E01	Financial Markets & Services	0
	174FI4E02	Global Financial Management	0	174FI4E02	Global Financial Management	0

IV	174FI4E03	Risk Management	0	174FI4E03	Risk Management	0
	174FI4E04	Tax Management	0	174FI4E04	Tax Management	0
	174MA4E01	Services Marketing	0	174MA4E01	Services Marketing	0
	174MA4E02	Promotional Distribution Management	0	174MA4E02	Promotional Distribution Management	0
	174MA4E03	Global Marketing Management	0	174MA4E03	Global Marketing Management	0
	174MA4E04	Supply Chain Management	0	174MA4E04	Supply Chain Management	0
	174MB4P02	Major Project	0	174MB4P02	Major Project	0
	174SY3E01	E-Business	0	174SY3E01	E-Business	0
	174SY3E02	RDBMS	0	174SY3E02	RDBMS	0
	174SY3E03	System Analysis & Design	0	174SY3E03	System Analysis & Design	0
	174SY3E04	Web Designing	0	174SY3E04	Web Designing	0
	174SY4E01	Business Intelligence	0	174SY4E01	Business Intelligence	0
	174SY4E02	Enterprise Resource Planning	0	174SY4E02	Enterprise Resource Planning	0
	174SY4E03	Cyber Laws & Security	20	174SY4E03	Cyber Laws & Security	20
	174SY4E04	Information Systems Audit	20	174SY4E04	Information Systems Audit	20

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Department of Management Studies

Programme Name: IMBA

List of Courses for the Academic Year 2018-2019				List of Courses for the Academic Year 2019-2020		
Semester	Course Code	Course Name	Percentage of content changed for existing year	Course Code	Course Name	Percentage of content changed for existing year
I	175IM1T01	English Language – I	0	175IM1T01	English Language – I	0
	175IM1T02	Business Mathematics & Statistics	0	175IM1T02	Business Mathematics & Statistics	0
	175IM1T03	Fundamentals of Business Organization	0	175IM1T03	Fundamentals of Business Organization	0
	175IM1T04	Financial Accounting – I	0	175IM1T04	Financial Accounting – I	0
	175IM1T05	Fundamentals of Computers	0	175IM1T05	Fundamentals of Computers	0
II	175IM2T06	English Language – II	0	175IM2T06	English Language – II	0
	175IM2T07	Business Environment	0	175IM2T07	Business Environment	0
	175IM2T08	Managerial Economics	0	175IM2T08	Managerial Economics	0
	175IM2T09	Financial Accounting – II	0	175IM2T09	Financial Accounting – II	0
	175IM2T10	Organizational Communications	0	175IM2T10	Organizational Communications	0
III	175IM3T11	Principles of Management	0	175IM3T11	Principles of Management	0
	175IM3T12	Cost	0	175IM3T12	Cost	0

		Accounting			Accounting	
	175IM3T13	Banking Theory & Practice	0	175IM3T13	Banking Theory & Practice	0
	175IM3T14	Business Law	0	175IM3T14	Business Law	0
	175IM3T15	Entrepreneurship Development	0	175IM3T15	Entrepreneurship Development	0
IV	175IM4T16	Organizational Behavior	0	175IM4T16	Organizational Behavior	0
	175IM4T17	Management Accounting	0	175IM4T17	Management Accounting	0
	175IM4T18	Company Law	0	175IM4T18	Company Law	0
	175IM4T19	Elements of Direct & Indirect Taxes	0	175IM4T19	Elements of Direct & Indirect Taxes	0
	175IM4T20	Management Information Systems	0	175IM4T20	Management Information Systems	0
V	16IM501	Financial Management	100	16IM501	Financial Management	0
	16IM502	Marketing Management	100	16IM502	Marketing Management	0
	16IM503	Human Resource Management	100	16IM503	Human Resource Management	0
	16IM504	Production and Operations Management	100	16IM504	Production and Operations Management	0
	16IM505	Research Methodology	100	16IM505	Research Methodology	0
VI	16IM601	Operations Research	100	16IM601	Operations Research	0
	16IM602	International Business	100	16IM602	International Business	0
	16IM603	Strategic Management	100	16IM603	Strategic Management	0
	16IM604	Decision Support Systems	100	16IM604	Decision Support Systems	0
	16IM605	Mini Project*	0	16IM605	Mini Project*	0
VII				16IM701	Knowledge Management	100
				16IM702	Strategic Cost Management	100

			16IM703A	HR Planning	100
			16IM704B	Leadership Management	100
			16IM705C	Compensation and Reward Management	100
			16IM703D	Security Analysis	100
			16IM704A	Banking and Insurance Management	100
			16IM705B	Advanced Management Accounting	100
			16IM703C	Consumer Behavior	100
			16IM704D	Rural Marketing	100
			16IM705A	Supply Chain Management	100
			16IM703B	E-Business	100
			16IM704C	RDBMS	100
			16IM705D	Web Designing	100
VIII			16IM801A	Total Quality Management	100
			16IM802B	Project Management	100
			16IM803C	Performance Management	100
			16IM804D	Strategic Human Resource Management	100
			16IM805A	Organizational Development & Change Management	100
			16IM803B	Strategic Financial Management	100
			16IM804C	Portfolio Management	100
			16IM805D	Financial Markets and Services	100
			16IM803A	Customer Relationship	100

					Management	
				16IM804B	Strategic Marketing Management	100
				16IM805C	Services Marketing	100
				16IM803D	System Analysis & Design	100
				16IM804A	Business Intelligence	100
				16IM805B	Enterprise Resource Planning	100

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Department of Master of Computer Applications

List Of Courses for the Academic Year 2018-2019			List Of Courses for the Academic Year 2019-2020		
Semester	Course Code	Course Name	Course Code	Course Name	Percentage of content changed for existing year
I	173MC1T01	C PROGRAMMING AND DATA STRUCTURES	193MC1T01	Problem Solving with C	70
	173MC1T02	COMPUTER ORGANIZATION	193MC1T02	Computer Organization	40
	173MC1T03	DISCRETE MATHEMATICAL STRUCTURES AND GRAPH THEORY	193MC1T03	Discrete Mathematical Structures	0
	173MC1T04	STATISTICAL PROGRAMMING WITH R	193MC1T04	Probability and Statistics	0
	173MC1T05	ACCOUNTING AND FINANCIAL MANAGEMENT	193MC1T05	Accounting and Financial Management	0
	173MC1L01	ENGLISH LANGUAGE COMMUNICATION SKILLS LAB	193MC1L01	English Language Communication Skills Lab	50
	173MC1L02	C PROGRAMMING LAB	193MC1L02	Problem Solving with C Lab	0
	173MC1L03	STATISTICAL PROGRAMMING WITH R LAB	193MC1L03	IT Workshop (Lab)	100
	173MC1T06	OOPS THROUGH JAVA	193MC2T06	Data Structures	0

II	173MC1T07	OPERATING SYSTEMS	193MC2T07	Operating Systems	0
	173MC1T08	SOFTWARE ENGINEERING	193MC2T08	Software Engineering	0
	173MC1T09	OPTIMIZATION TECHNIQUES	193MC2T09	OOP Through Java	0
	173MC1T10	COMPUTER GRAPHICS	193MC2T10	Optimization Techniques	0
	173MC1L04	OOPS THROUGH JAVA LAB	193MC2L04	OOP Through Java Lab	0
	173MC1L05	DATA STRUCTURES LAB	193MC2L05	Data Structures Lab	0
	173MC1L06	OPERATING SYSTEM & COMPUTER GRAPHICS LAB	193MC2L06	Operating Systems and Linux Lab	100
III	173MC1T11	DATA BASE MANAGEMENT SYSTEMS	173MC1T11	DATA BASE MANAGEMENT SYSTEMS	0
	173MC1T12	COMPUTER NETWORKS	173MC1T12	COMPUTER NETWORKS	0
	173MC1T13	UNIX PROGRAMMING	173MC1T13	UNIX PROGRAMMING	0
	173MC1T14	MANAGEMENT INFORMATION SYSTEM	173MC1T14	MANAGEMENT INFORMATION SYSTEM	0
	173MC1T15	DESIGN AND ANALYSIS OF ALGORITHMS	173MC1T15	DESIGN AND ANALYSIS OF ALGORITHMS	0
	173MC1L07	DATA BASE MANAGEMENT SYSTEMS LAB	173MC1L07	DATA BASE MANAGEMENT SYSTEMS LAB	0
	173MC1L08	UNIX PROGRAMMING LAB	173MC1L08	UNIX PROGRAMMING LAB	0
	173MC1L09	COMPUTER NETWORKS LAB	173MC1L09	COMPUTER NETWORKS LAB	0

IV	173MC1T16	OBJECT ORIENTED ANALYSIS AND DESIGN	173MC1T16	OBJECT ORIENTED ANALYSIS AND DESIGN	0
	173MC1T17	ADVANCED JAVA & WEB TECHNOLOGIES	173MC1T17	ADVANCED JAVA & WEB TECHNOLOGIES	0
	173MC1T18	DATA WAREHOUSING AND MINING	173MC1T18	DATA WAREHOUSING AND MINING	0
	173MC4E01	MOBILE COMPUTING	173MC4E01	MOBILE COMPUTING	0
	173MC4E02	HUMAN COMPUTER INTERACTION	173MC4E02	HUMAN COMPUTER INTERACTION	0
	173MC4E03	CLOUD COMPUTING	173MC4E03	CLOUD COMPUTING	0
	173MC4E04	SOFTWARE PROJECT MANAGEMENT	173MC4E04	SOFTWARE PROJECT MANAGEMENT	0
	173MC4E05	ARTIFICIAL INTELLIGENCE	173MC4E05	ARTIFICIAL INTELLIGENCE	0
	173MC4E06	EMBEDDED SYSTEMS	173MC4E06	EMBEDDED SYSTEMS	0
	173MC1L10	ADVANCED JAVA & WEB TECHNOLOGIES LAB	173MC1L10	ADVANCED JAVA & WEB TECHNOLOGIES LAB	0
	173MC1L11	DATA WAREHOUSING AND MINING LAB	173MC1L11	DATA WAREHOUSING AND MINING LAB	0
	173MC1L12	OBJECT ORIENTED ANALYSIS AND DESIGN LAB	173MC1L12	OBJECT ORIENTED ANALYSIS AND DESIGN LAB	0
	MC1651	BIG DATA ANALYTICS	173MC1T19	BIG DATA ANALYTICS	0
	MC1652	NETWORK PROGRAMMING	173MC1T20	NETWORK PROGRAMMING	0
	MC1653	PYTHON PROGRAMMING	173MC1T21	PYTHON PROGRAMMING	100

V	MC1654	CYBER SECURITY	173MC4E07	CYBER SECURITY	0
	MC1655	COMPUTER FORENSICS	173MC4E08	COMPUTER FORENSICS	100
	MC1656	E-COMMERCE	173MC4E09	E-COMMERCE	0
	MC1657	INTERNET OF THINGS	173MC4E10	INTERNET OF THINGS	100
	MC1658	MULTIMEDIA APPLICATION DEVELOPMENT	173MC4E11	MULTIMEDIA APPLICATION DEVELOPMENT	0
	MC1659	SOFTWARE TESTING METHODOLOGIES	173MC4E12	SOFTWARE TESTING METHODOLOGIES	0
	MC165A	BIG DATA ANALYTICS LAB	173MC1L13	BIG DATA ANALYTICS LAB	0
	MC165B	NETWORK PROGRAMMING LAB	173MC1L14	NETWORK PROGRAMMING LAB	0
	MC165C	PYTHON PROGRAMMING LAB	173MC1L15	PYTHON PROGRAMMING LAB	0
VI	173MC6R01	PROJECT SEMINAR	173MC6R01	PROJECT SEMINAR	0
	173MC6P01	DISSERTATION/ THESIS	173MC6P01	DISSERTATION/ THESIS	0

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