ADITYA ENGINEERING COLLEGE

An Autonomous Institution

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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 2018-2019

S. No	Program Code	Program Name	Number of New Courses
1	1	B. Tech. (Civil Engineering)	4
2	2	B. Tech. (Electrical and Electronics Engineering)	5
3	3	B. Tech. (Mechanical Engineering)	3
4	4	B. Tech. (Electronics and Communication Engineering)	4
5	5	B. Tech. (Computer Science and Engineering)	7
6	12	B. Tech. (Information Technology)	6
7	26	B. Tech. (Mining Engineering)	4
8	27	B. Tech. (Petroleum Engineering)	1
9	1M	Integrated Master of Business Administration	9
10	1F	Master of Computer Applications	7
		B.Tech Common Courses	52
		Total Number of New Courses	**102**

Convenor
Academic Committee

Principal

List of New Courses Introduced Program Wise for the Academic Year 2018-2019

S.No	Program Code	Program Name	Course Name	Course Code
1	01	B.Tech CE	Management Science	R1631011
2	02	B.Tech EEE	Data Structures	R1632024
3	02	B.Tech EEE	Robotics	R163202D
4	02	B.Tech EEE	Neural Networks &Fuzzy Logic	R163202E
5	02	B.Tech EEE	Data Structures Laboratory	R1632028
6	02	B.Tech EEE	Professional Ethics & Human Values	R1632029
7	03	B.Tech ME	Theory of Machines Lab	R1631036
8	03	B.Tech ME	Entrepreneurship	R163203A
9	03	B.Tech ME	Computational Fluid Dynamics Lab	R1632038
10	04	B.Tech ECE	Data Mining	R163204B
11	04	B.Tech ECE	Industrial Robotics	R163204C
12	04	B.Tech ECE	Power Electronics	R163204E
13	05	B.Tech CSE	Internet of Things	R163205B
14	05	B.Tech CSE	Cyber Security	R163205C
15	05	B.Tech CSE	Digital Signal Processing	R163205D
16	05	B.Tech CSE	Embedded Systems	R163205E
17	05	B.Tech CSE	Robotics	R163205F
18	05	B.Tech CSE	Network Programming Lab	R1632056
19	05	B.Tech CSE	Software Testing Lab	R1632057

S.No	Program Code	Program Name	Course Name	Course Code
20	12	B.Tech IT	Language Processors	171IT4T01
21	12	B.Tech IT	Human-Computer Interaction	R1631121
22	12	B.Tech IT	Data Mining	R1632121
23	12	B.Tech IT	Social Networks and Semantic Web	R1632123A
24	12	B.Tech IT	Operations Research	R1632123B
25	12	B.Tech IT	Data Mining Lab	R1632126
26	26	B.Tech Min.E	Probability and Statistics	171BS3T10
27	26	B.Tech Min.E	Basic Mechanical Engineering Lab	171ES3L13
28	26	B.Tech Min.E	Entrepreneurship	R1632035A
29	26	B.Tech Min.E	Waste Water Management	R1632015D
30	01, 02, 03, 04, 05, 12, 26, 27, 35	All B.Tech Programmes	Employability Skills - I	171HS3A10
31	01, 02, 03, 04, 05, 12, 26, 27, 35	All B.Tech Programmes	Employability Skills – II	171HS4A11
32	1M	IMBA	Financial Management	16IM501
33	1M	IMBA	Marketing Management	16IM502
34	1M	IMBA	Human Resource Management	16IM503
35	1M	IMBA	Production and Operations Management	16IM504
36	1M	IMBA	Research Methodology	16IM505
37	1M	IMBA	Operations Research	16IM601
38	1M	IMBA	International Business	16IM602
39	1M	IMBA	Strategic Management	16IM603
40	1M	IMBA	Decision Support Systems	16IM604
41	1F	MCA	Cloud Computing	173MC4E03

S.No	Program Code	Program Name	Course Name	Course Code
42	1F	MCA	Artificial Intelligence	173MC4E05
43	1F	MCA	Advanced Java & Web Technologies Lab	173MC4L10
44	1F	MCA	Big Data Analytics	MC1651
45	1F	MCA	Python Programming	MC1653
46	1F	MCA	Big Data Analytics Lab	MC165A
47	1F	MCA	Python Programming Lab	MC165C
48	01, 02, 03, 04, 05, 12, 26, 27, 35	All B.Tech Programmes	Engineering Chemistry Lab	171BS1L01
49	01, 02, 03, 04, 05, 12, 26, 27, 35	All B.Tech Programmes	Applied Chemistry Lab	171BS1L03
50	01, 02, 03, 04, 05, 12, 26, 27, 35	All B.Tech Programmes	Applied Physics Lab	171BS1L04
51	01, 02, 03, 04, 05, 12, 26, 27, 35	All B.Tech Programmes	Mathematics - I	171BS1T01
52	01, 02, 03, 04, 05, 12, 26, 27, 35	All B.Tech Programmes	Mathematics – II	171BS1T02
53	01, 02, 03, 04, 05, 12, 26, 27, 35	All B.Tech Programmes	Engineering Chemistry	171BS1T03
54	01, 02, 03, 04, 05, 12, 26, 27, 35	All B.Tech Programmes	Applied Physics	171BS1T04
55	01, 02, 03, 04, 05, 12, 26, 27, 35	All B.Tech Programmes	Applied Chemistry	171BS1T05
56	01, 02, 03, 04, 05, 12, 26, 27, 35	All B.Tech Programmes	Engineering Physics Lab	171BS2L02
57	01, 02, 03, 04, 05, 12, 26, 27, 35	All B.Tech Programmes	Applied Chemistry Lab	171BS2L03
58	01, 02, 03, 04, 05, 12, 26, 27, 35	All B.Tech Programmes	Applied Physics Lab	171BS2L04
59	01, 02, 03, 04, 05, 12, 26, 27, 35	All B.Tech Programmes	Mathematics - II	171BS2T02

S.No	Program Code	Program Name	Course Name	Course Code
60	01, 02, 03, 04, 05, 12, 26, 27, 35	All B.Tech Programmes	Applied Physics	171BS2T04
61	01, 02, 03, 04, 05, 12, 26, 27, 35	All B.Tech Programmes	Applied Chemistry	171BS2T05
62	01, 02, 03, 04, 05, 12, 26, 27, 35	All B.Tech Programmes	Mathematics - III	171BS2T06
63	01, 02, 03, 04, 05, 12, 26, 27, 35	All B.Tech Programmes	Engineering Physics	171BS2T07
64	05, 12	B.Tech CSE, IT	Mathematical Foundations of Computer Science	171BS3T08
65	01,03	B.Tech CE, ME	Complex Variables	171BS3T09
66	04, 27	B.Tech ECEE, PT	Probability and Statistics	171BS4T10
67	01, 03, 27,35	B.Tech CE,ME, PT,Ag.E	Basic Electrical and Electronics Engineering	171ES3T05
68	01,03	B.Tech CE, ME	Strength of Materials - I	171ES3T09
69	02,03	B.Tech EEE,ME	Thermal and Hydro Prime Movers	171ES3T10
70	01,03	B.Tech CE, ME	Mechanics of Solids	171ES3T11
71	01,03	B.Tech CE, ME	Thermodynamics	171ES3T12
72	01,03	B.Tech CE, ME	Metallurgy and Materials Science	171ES3T13
73	01,03	B.Tech CE, ME	Fluid Mechanics and Hydraulic Machinery	171ES3T14
74	02,04	B.Tech EEE, ECE	Network Analysis	171ES3T15
75	01,03	B.Tech CSE, IT	Materials Science and Engineering	171ES3T16
76	01,03, 35	B.Tech CSE, IT, Ag.E	General Geology	171ES3T17
77	26,27	B.Tech Min.E, PT	Surveying and Offshore Structures	171ES3T18
78	01,03	B.Tech CE, ME	Properties and Strength of Materials	171ES3T19
79	01,03, 27	B.Tech CE,ME PT	Electrical and Electronics Engineering	171ES3T20
80	01,26,27	B.Tech CE,Min.E, PT	Surveying and Leveling	171ES3T21
81	01,03	B.Tech CE, ME	Material Engineering	171ES3T22
82	02,04, 05	B.Tech EEE, ECE, CSE	Digital Logic Design	171ES3T23
83	02,03	B.Tech EEE, ME	Fluid mechanics and Hydraulic Machinery Lab	171ES4L07

S.No	Program Code	Program Name	Course Name	Course Code
84	01,27	B.Tech CE,PT	Fluid Mechanics and Open Channel Hydraulics Lab	171ES4L14
85	01,03	B.Tech CE, ME	Machine Drawing and Computer Graphics Lab	171ES4L15
86	05,12	B.Tech CSE, IT	Digital Circuits and Logic Design	171ES4T24
87	01,27	B.Tech CE, PT	Fluid Mechanics and Open Channel Hydraulics	171ES4T25
88	01,03	B.Tech CE, ME	Kinematics Of Machinery	171ES4T27
89	02,04	B.Tech EEE, ECE	Linear Control Systems	171ES4T28
90	01, 02, 03, 04, 05, 12, 26, 27, 35	All B.Tech Programmes	Professional Ethics and Human Values	171HS3A09
91	01, 02, 03, 04, 05, 12, 26, 27, 35	All B.Tech Programmes	Employability Skills - I	171HS3A10
92	01, 02, 03, 04, 05	B.Tech CE,EEE, ME, ECE, CSE	Managerial Economics and Financial Analysis	171HS3T04
93	12, 26, 27, 35	B.Tech IT, Min.E, PT, Ag.E	Managerial Economics and Financial Analysis	171HS4A04
94	01, 02, 03, 04, 05, 12, 26, 27, 35	All B.Tech Programmes	IPR and Patents	171HS4A08
95	01, 02, 03, 04, 05, 12, 26, 27, 35	All B.Tech Programmes	Employability Skills - II	171HS4A11
96	01, 02, 03, 04, 05, 12, 26, 27, 35	All B.Tech Programmes	Management Science	171HS4T05
97	01, 02, 03, 04, 05, 12, 26, 27, 35	All B.Tech Programmes	Intellectual Property rights and patents	171HS4T08
98	04	B.Tech ECE	OOPs through Java	R163204A
99	27	B.Tech PT	Alternative energy sources for automobiles	R163227D
100	01	B.Tech CE	Fundamentals Of Petroleum Industry	RT41016B
101	01	B.Tech CE	Interior Designs and Decorations	RT4101B
102	01	B.Tech CE	Environmental Engineering Lab	RT4101L

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Program Name: B.Tech Civil Engineering
Comparison of new courses introduced in Academic year 2018-2019

List of Courses for the Academic Year 2017-2018			List of Courses for the Academic Year 2018-2019			
Semester	Course Code	Course Name	Semester	Course Code	Course Name	Percentage of content changed for existing year
I	171HS1T01	English – I	I	171HS1T01	English - I	0
	171BS1T01	Mathematics – I		171BS1T01	Mathematics - I	0
	171HS1T02	Environmental Studies		171HS1T02	Environmental Studies	0
	171BS1T03	Engineering Chemistry		171BS1T03	Engineering Chemistry	0
	171ES1T02	Engineering Mechanics		171ES1T02	Engineering Mechanics	0
	171ES1T01	Computer Programming		171ES1T01	Computer Programming	0
	171HS1L01	English Communication Skills Lab - I		171HS1L01	English Communication Skills Lab - I	0
	171BS1L01	Engineering Chemistry Lab		171BS1L01	Engineering Chemistry Lab	0
	171ES1L01	Computer Programming Lab		171ES1L01	Computer Programming Lab	0
II	171HS2T03	English – II	II	171HS2T03	English - II	0
	171BS2T02	Mathematics – II		171BS2T02	Mathematics - II	0
	171BS2T06	Mathematics – III		171BS2T06	Mathematics - III	0
	171BS2T07	Engineering Physics		171BS2T07	Engineering Physics	0
	171ES2T03	Engineering Drawing		171ES2T03	Engineering Drawing	0
	171ES2T04	Basic Mechanical Engineering		171ES2T04	Basic Mechanical Engineering	0
	171HS2L02	English Communication Skills Lab - II		171HS2L02	English Communication Skills Lab - II	0
	171BS2L02	Engineering Physics Lab		171BS2L02	Engineering Physics Lab	0
	171ES2L02	Engineering Workshop and IT Workshop		171ES2L02	Engineering Workshop and IT Workshop	0
III	R1621011	Probability & Statistics	III	171BS3T10	Probability and Statistics	25
	R1621012	Basic Electrical & Electronics Engineering		171ES3T05	Basic Electrical and Electronics Engineering	8
	R1621013	Strength of Materials-I		171ES3T09	Strength of Materials - I	0
	R1621014	Building Materials & Construction		171CE3T01	Building Materials and Construction	17
	R1621015	Surveying		171CE3T02	Surveying	33
	R1621016	Fluid Mechanics		171CE3T03	Fluid Mechanics	0
	R1621017	Survey Field Work – I		171CE3L01	Surveying Lab	50
	R1621018	Strength of Materials Lab		171ES3L03	Strength of Materials Lab	50
IV	R1621019	Professional Ethics & Human Values	IV	171HS3A09	Professional Ethics and Human Values	0
	R1622011	Building Planning & Drawing		171HS3A10	Employability Skills - I	100
	R1622012	Strength of Materials - II		171CE4T04	Building Planning and Computer Aided Drawing	0
	R1622013	Hydraulics & Hydraulic Machinery		171CE4T05	Concrete Technology	0
	R1622014	Concrete Technology		171CE4T06	Engineering Geology	0
	R1622015	Structural Analysis – I		171CE4T07	Hydraulics and Hydraulic Machinery	17
	R1622016	Transportation Engineering - I		171CE4T08	Strength of Materials – II	0
	R1622017	FM & HM Lab		171CE4T09	Structural Analysis - I	0
	R1622018	Survey Field Work – II		171CE4L02	Fluid Mechanics and Hydraulic Machinery Lab	50
	R1622019	Managerial Economics & Financial Analysis		171CE4L03	Concrete Technology Lab	0

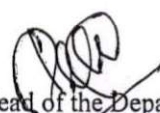| Sem	Code	Course	Sem	Code	Course	Marks
	RT31014	Engineering Geology		171HS4A08	Intellectual property rights and patents	0
	RT31012	Structural Analysis – II		171HS4A11	Employability Skills - II	100
	RT31013	Design and Drawing of Reinforced Concrete Structures		171HS4A04	Managerial Economics and Financial Analysis	24
V	RT31011	Geotechnical Engineering – I		R1631011	Management Science	100
	RT31015	Transportation Engineering – I		R1631012	Engineering Geology	0
	RT31016	IPR & Patents		R1631013	Structural Analysis -II	0
	RT31017	Geotechnical Engineering Lab	V	R1631014	Design & Drawing of Reinforced Concrete Structures	0
	RT31018	Engineering Geology Lab		R1631015	Transportation Engineering - II	0
	1RT32013	Design and Drawing of Steel Structures		R1631016	Concrete Technology Lab	0
	1RT32012	Geotechnical Engineering – II		R1631017	Geology Lab	0
	1RT32014	Water Resources Engineering–I		R1631018	Transportation Engineering Lab	0
	1RT32011	Environmental Engineering – I		R1632011	Design & Drawing of Steel Structures	0
	1RT32015	Transportation Engineering – II		R1632012	Geotechnical Engineering - I	0
	PT41011	Environmental Pollution and Control		R1632013	Environmental Engineering -I	0
VI	RT32016A	Disaster Management		R1632014	Water Resource Engineering -I	0
	RT32016C	Industrial Water & Waste Water Management		R1632015A	Electronic Instrumentation	0
	RT32016B	Architecture and Town Planning		R1632015B	Data Base Management Systems	0
	RT32016D	Finite Element Method	VI	R163201C	Alternative Energy Sources	0
	RT32016E	Green Technologies		R163201D	Waste water Management	0
	RT32017	Computer Aided Engineering Drawing		R163227B	Fundamentals of Liquefied Natural Gas	0
	RT32018	Transportation Engineering Lab		RT41016F	Green Fuel Technologies	0
	RT41011	Environmental Engineering – II		R163201C	Geotechnical Engineering Lab	0
	RT41012	Prestressed Concrete		R1632017	Environmental Engineering Lab	0
	RT41013	Construction Technology and Management		R1632018	Computer Aided Engineering Lab	0
	RT41014	Water Resources Engineering–II		RT41011	Environmental Engineering – II	0
	RT41015	Remote Sensing and GIS Applications		RT41012	Prestressed Concrete	0
	RT41016	(ELECTIVE - I) Ground Improvement Techniques		RT41013	Construction Technology and Management	0
VII	RT41017	Air Pollution and Control		RT41014	Water Resources Engineering–II	0
	RT41018	Matrix methods of Structural Analysis		RT41015	Remote Sensing and GIS Applications	0
	RT41019	Urban Hydrology		RT41016	(ELECTIVE - I) Ground Improvement Techniques	0
	RT4101A	Advanced Surveying	VII	RT41017	Air Pollution and Control	0
	RT4101B	Interior Designs and Decorations		RT41018	Matrix methods of Structural Analysis	0
	RT4101L	Environmental Engineering Lab		RT41019	Urban Hydrology	0
	RT4101M	GIS & CAD Lab		RT4101A	Advanced Surveying	0
	RT42011	Estimating, Specifications & Contracts		RT4101B	Interior Designs and Decorations	0
	RT42012A	Engineering with Geo-synthetics		RT4101L	Environmental Engineering Lab	0
	RT42012B	Environmental Impact Assessment and Management		RT4101M	GIS & CAD Lab	0

	Code	Subject
	RT42012C	Advanced Structural Engineering
	RT42012D	Ground Water Development and Management
	RT42012E	Traffic Engineering
	RT42012F	Infrastructure Management
	RT42013A	Advanced foundation Engineering
	RT42013B	Solid waste Management
VIII	RT42013C	Earthquake Resistant Design
	RT42013D	Water Shed Management
	RT42013E	Pavement Analysis and Design
	RT42013F	Green Buildings
	RT42014A	Soil Dynamics and Machine Foundations
	RT42014B	Environmental and Industrial Hygiene
	RT42014C	Repair and Rehabilitation of Structures
	RT42014D	Water Resources System Planning and Management
	RT42014E	Urban Transportation Planning Safety Engineering
	RT42014G	Bridge Engineering
	RT42015	Project Work

	Code	Subject	
	RT42011	Estimating, Specifications & Contracts	0
	RT42012A	(ELECTIVE –II) Engineering with Geo-synthetics	0
	RT42012B	Environmental Impact Assessment and Management	0
	RT42012C	Advanced Structural Engineering	0
	RT42012D	Ground Water Development and Management	0
	RT42012E	Traffic Engineering	0
	RT42012F	Infrastructure Management	0
	RT42013A	Elective-III: Advanced foundation Engineering	0
	RT42013B	Solid waste Management	0
VIII	RT42013C	Earthquake Resistant Design	0
	RT42013D	Water Shed Management	0
	RT42013E	Pavement Analysis and Design	0
	RT42013F	Green Buildings	0
	RT42014A	Elective-IV: Soil Dynamics and Machine Foundations	0
	RT42014B	Environmental and Industrial Hygiene	0
	RT42014C	Repair and Rehabilitation of Structures	0
	RT42014D	Water Resources System Planning and Management	0
	RT42014E	Urban Transportation Planning Safety Engineering	0
	RT42014G	Bridge Engineering	0
	RT42015	Project Work	0

Program coordinator

Head of the Department

Head of the Department
Dept. of Civil Engineering
ADITYA ENGINEERING COLLEGE (A9)

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Department of Electrical and Electronics Engineering

List of Courses for the Academic Year 2017-18   List of Courses for the Academic Year 2018-19

Semester	Course Code	Course Name	Course Code	Course Name	Percentage of content changed for existing year
I	171HS1T01	English - I	171HS1T01	English - I	0
	171BS1T01	Mathematics - I	171BS1T01	Mathematics - I	0
	171HS1T02	Environmental Studies	171HS1T02	Environmental Studies	0
	171BS1T05	Applied Chemistry	171BS1T05	Applied Chemistry	0
	171ES1T02	Engineering Mechanics	171ES1T02	Engineering Mechanics	0
	171ES1T01	Computer Programming	171ES1T01	Computer Programming	0
	171HS1L01	English Communication Skills Lab - I	171HS1L01	English Communication Skills Lab - I	0
	171BS1L03	Applied Chemistry Lab	171BS1L03	Applied Chemistry Lab	0
	171ES1L01	Computer Programming Lab	171ES1L01	Computer Programming Lab	0
II	171HS2T03	English - II	171HS2T03	English - II	0
	171BS2T02	Mathematics - II	171BS2T02	Mathematics - II	0
	171BS2T06	Mathematics - III	171BS2T06	Mathematics - III	0
	171BS2T04	Applied Physics	171BS2T04	Applied Physics	0
	171ES2T03	Engineering Drawing	171ES2T03	Engineering Drawing	0
	171EE2T01	Electrical Circuit Analysis - I	171EE2T01	Electrical Circuit Analysis - I	0
	171HS2L02	English Communication Skills Lab - II	171HS2L02	English Communication Skills Lab - I	0
	171BS2L04	Applied Physics Lab	171BS2L04	Applied Physics Lab	0
	171ES2L02	Engineering Workshop and IT Workshop	171ES2L02	Engineering Workshop and IT Workshop	0
III	R1621021	Electrical Circuit Analysis - II	171EE3T02	Electrical Circuit Analysis - II	40
	R1621022	Electrical Machines-I	171EE3T03	Electrical Machines – I	10
	R1621023	Basic Electronics and Devices	171EE3T04	Basic Electronics Devices and Circuits	10
	R1621024	Electro Magnetic Fields	171EE3T05	Electromagnetic Fields	5
	R1621025	Thermal and Hydro Prime Movers	171ES3T10	Thermal and Hydro Prime Movers	42
	R1621026	Managerial Economics & Financial Analysis	171HS3T04	Managerial Economics and Financial Analysis	5
	R1621027	Thermal and Hydro Laboratory	171ES3L04	Thermal and Hydro Prime Movers Lab	5
			171EE3L01	Electrical Circuits Lab	8
	R1621028	Electrical Circuits Laboratory	171HS3A09	Professional Ethics and Human Values	15
			171HS3A10	Employability Skills - I	100
IV	R1622021	Electrical Measurements	171EE4T06	Electrical Measurements	15
	R1622022	Electrical Machines-II	171EE4T07	Electrical Machines - II	5
	R1622023	Switching Theory and Logic Design	171ES4T24	Digital Circuits and Logic Design	5
	R1622024	Control Systems	171EE4T08	Control Systems	15
	R1622025	Power Systems-I	171EE4T09	Power Systems – I	15
	R1622026	Management Science	171HS4T05	Management Science	15
	R1622027	Electrical Machines -I Laboratory	171EE4L02	Electronic Devices and Circuits Lab	10
	R1622028	Electronic Devices & Circuits Laboratory	171EE4L03	Electrical Machines - I Lab	35
			171HS4A11	Employability Skills - II	100
V	RT31022	Managerial Economics and Financial Analysis	R1631021	Power Systems-II	0
	RT31021	Electrical Measurements	R1631022	Renewable Energy Sources	0
	RT31023	Power Systems-II	R1631023	Signals and Systems	0
	RT31024	Electrical Machines-III	R1631024	Pulse & Digital Circuits	25
	RT31025	Power Electronics	R1631025	Power Electronics	30
	RT31026	Linear & Digital IC Applications	R1631026	Electrical Machines-II Laboratory	30
	RT31027	Electrical Machines-II Lab	R1631027	Control Systems Laboratory	0
	RT31028	Control Systems Lab	R1631028	Electrical Measurements Laboratory	0
	RT31016	IPR & Patents	R1631029	IPR & Patents	0
	RT32022	Switchgear and Protection	R1632021	Power Electronic Controllers & Drives	5
	RT32021	Microprocessors & Microcontrollers	R1632022	Power System Analysis	15
	RT32023	Utilization of Electrical Energy	R1632023	Micro Processors and Micro controllers	40
			R1632024	Data Structures	100

VI	RT32024	Power System Analysis	R163202A	Unix and Shell Programming	0
			R163204A	OOPS Through JAVA	0
	RT32026	Power Semiconductor Drives	R163202B	VLSI Design	0
			R163202D	Robotics	100
			R163202E	Neural Networks &Fuzzy Logic	100
	RT32025	Management Science	R163202F	Energy Audit and Conservation& Management	0
			R1632026	Power Electronics Laboratory	40
	RT32027	Power Electronics Lab	R1632027	Micro Processors and Micro controllers Laboratory	0
			R1632028	Data Structures Laboratory	100
	RT32028	Electrical Measurements Lab	R1632029	Professional Ethics & Human Values	100
VII	RT41021	Renewable Energy Sources and Systems	RT41021	Renewable Energy Sources and Systems	0
	RT41022	HVAC & DC Transmission	RT41022	HVAC & DC Transmission	0
	RT41023	Power System Operation & Control	RT41023	Power System Operation & Control	0
	RT41024	Energy Audit, Conservation and Management	RT41024	Energy Audit, Conservation and Management	0
	RT41025	Instrumentation	RT41025	Instrumentation	0
	RT41026	Non Conventional Sources of Energy	RT41026	Non Conventional Sources of Energy	0
	RT41027	Optimization Techniques	RT41027	Optimization Techniques	0
	RT41028	VLSI Design	RT41028	VLSI Design	0
	RT41029	Electrical Distribution Systems	RT41029	Electrical Distribution Systems	0
	RT41030	Optimization Techniques	RT41030	Optimization Techniques	0
	RT4102L	Microprocessors & Microcontrollers Lab	RT4102L	Microprocessors & Microcontrollers Lab	0
	RT4102M	Electrical Simulation Lab	RT4102M	Electrical Simulation Lab	0
	RT4102N	Power systems lab	RT4102N	Power systems lab	0
VIII	RT42021	Digital Control Systems	RT42021	Digital Control Systems	0
	RT42022A	Advanced Control Systems	RT42022A	Advanced Control Systems	0
	RT42022B	Extra High Voltage Transmission	RT42022B	Extra High Voltage Transmission	0
	RT42022C	Special Electrical Machines	RT42022C	Special Electrical Machines	0
	RT42023A	Electric Power Quality	RT42023A	Electric Power Quality	0
	RT42023B	Digital Signal Processing	RT42023B	Digital Signal Processing	0
	RT42023C	FACTS: Flexible Alternating Current Transmission Systems.	RT42023C	FACTS: Flexible Alternating Current Transmission Systems.	0
	RT42024A	OOPS Through Java	RT42024A	OOPS Through Java	0
	RT42024B	UNIX and Shell Programming	RT42024B	UNIX and Shell Programming	0
	RT42024C	AI Techniques	RT42024C	AI Techniques	0
	RT42024D	Power System Reforms	RT42024D	Power System Reforms	0
	RT42024E	Systems Engineering	RT42024E	Systems Engineering	0
	RT42025	Project	RT42025	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

Semester	\<List of Courses for the Academic Year 2017-18> Course Code	Course Name	\<List of Courses for the Academic Year 2018-19> Course Code	Course Name	Percentage of content changed for existing year
I	171HS1T01	English – I	171HS1T01	English – I	
	171BS1T01	Mathematics - I	171BS1T01	Mathematics - I	0
	171HS1T02	Environmental Studies	171HS1T02	Environmental Studies	0
	171BS1T03	Engineering Chemistry	171BS1T03	Engineering Chemistry	0
	171ES1T02	Engineering Mechanics	171ES1T02	Engineering Mechanics	0
	171ES1T01	Computer Programming	171ES1T01	Computer Programming	0
	171HS1L01	English Communication Skills Lab - I	171HS1L01	English Communication Skills Lab - I	0
	171BS1L01	Engineering Chemistry Lab	171BS1L01	Engineering Chemistry Lab	0
	171ES1L01	Computer Programming Lab	171HS2T03	English - II	0·
II	171HS2T03	English - II	171BS2T02	Mathematics - II	0
	171BS2T02	Mathematics - II	171BS2T06	Mathematics - III	0
	171BS2T06	Mathematics - III	171BS2T07	Engineering Physics	0
	171BS2T07	Engineering Physics	171ES2T03	Engineering Drawing	0
	171ES2T03	Engineering Drawing	171ES2T05	Basic Electrical and Electronics Engineering	0
	171ES2T05	Basic Electrical and Electronics Engineering	171HS2L02	English Communication Skills Lab - II	0
	171HS2L02	English Communication Skills Lab - II	171BS2L02	Engineering Physics Lab	0
	171BS2L02	Engineering Physics Lab			0
	171ES2L02	Engineering Workshop and IT Workshop	171ES2L02	Engineering Workshop and IT Workshop	0
III	R1621031	Metallurgy & Materials Science	171ES3T13	Metallurgy & Materials Science	5
	R1621032	Mechanics of Solids	171ES3T11	Mechanics of Solids	22
	R1621033	Thermodynamics	171ES3T12	Thermodynamics	0
	R1621026	Managerial Economics and Financial Analysis	171HS3T04	Managerial Economics and Financial Analysis	0
	R1621034	Fluid Mechanics & Hydraulic Machinery	171ES3T14	Fluid Mechanics & Hydraulic Machinery	0
	R1621035	Computer Aided Engineering Drawing Practice	171ME3T01	Computer Aided Engineering Drawing Practice	0
	R1621036	Electrical And Electronics Engg. Lab	171ES3L05	Basic Electrical And Electronics Engg. Lab	20
	R1621037	Mechanics of Solids and Metallurgy Lab	171ES3L06	Mechanics of Solids and Metallurgy Lab	20
			171HS3A09	Professional Ethics &Human Values	0
			171HS3A10	Employability skills-I	100
IV	R1622031	Kinematics of Machinery	171ME4T02	Kinematics of Machinery	10
	R1622032	Thermal Engineering -I	171ME4T03	Thermal Engineering -I	0
	R1622033	Production Technology	171ME4T04	Production Techniology	10
	R1622034	Design of Machine members-I	171ME4T05	Design of Machine members-I	20
	R1622036	Industrial Engineering and Management	171ME4T06	Industrial Engineering and Management	26
	R1622035	Machine Drawing	171ME4T07	Machine Drawing	30
	R1622037	Fluid Mechanics and Hydraulic Machinery Lab	171HS4T08	Intellectual Property rights and patents	0
			171ME4L01	Production Technology Lab	20
	R1622038	Production Technology Lab	171ES4L07	Fluid mechanics and Hydraulic Machinery Lab	24
			171HS4A11	Employability Skills -II	100
V	RT31031	Dynamics of Machinery	R1631031	Dynamics of Machinery	0
	RT31032	Metal Cutting and Machine Tools	R1631032	Metal Cutting and Machine Tools	0
	RT31033	Design of Machine members-I	R1631033	Design of Machine members-II	0
	RT31034	Instrumentation and Control systems	R1631034	Operations Research	0
	RT31035	Thermal Engineering -II	R1631035	Thermal Engineering -II	0
	RT31036	Metrology	R1631037	Machine Tools Lab	0
	RT31037	Machine Tools Lab	R1631036	Theory of Machines Lab	100
	RT31038	Metrology and instrumentation Lab	R1631038	Thermal Engineering Lab	0

	Code	Subject	Code	Subject	Value
	RT31016	IPR&Patents	R1631029	IPR&Patents	0
	RT32031	Operations Research	R1632031	Metrology	0
					0
	RT32032	Interactive Computer Graphics			
	RT32033	Design of Machine members-II	R1632032	Instrumentation and Control systems	0
	RT32034	Robotics	R1632033	Refrigeration and Air Conditioning	0
	RT32035	Heat Transfer	R1632034	Heat Transfer	0
VI	RT32036	Industrial Engineering Management	R163201A	Entrepreneurship	100
	RT32037A	Refrigeration and Air Conditioning	R163201B	Data Base Management Systems	0
	RT32037B	Computational Fluid Dynamics	R163201D	Waste Water Management	0
	RT32037C	Condition Monitoring	R163203B	Computer Graphics	0
			R163203C	Industrial Robotics	0
	RT32037D	Rapid Prototyping	R163203D	Green Engineering Systems	0
			R1632036	Heat Transfer Lab	0
			R1632037	Metrology & Instrumentation Lab	0
	RT32038	Heat Transfer Lab	R1632038	Computational Fluid Dynamics Lab	100
			R1632039	Professional Ethics &Human Values	0
					0
	RT41031	Automobile Engineering	RT41031	Automobile Engineering	0
	RT41032	CAD/CAM	RT41032	CAD/CAM	0
	RT41033	finite Element Methods	RT41033	finite Element Methods	0
	RT41034	Unconventional Machining Processes	RT41034	Unconventional Machining Process	0
	RT41035	MEMS	RT41035	MEMS	0
	RT41036	Nano technology	RT41036	Nano technology	0
VIII	RT41037	Material Characterization techniques	RT41037	Material Characterization techniques	0
	RT41038	Design for Manufacture	RT41038	Design for Manufacture	0
	RT41039	Automation in Manufacturing	RT41039	Automation in Manufacturing	0
	RT4103A	Industrial hydraulics and Pneumatics	RT4103A	Industrial hydraulics and Pneumatics	0
	RT4103L	Simulation Lab	RT4103L	Simulation Lab	0
	RT4103M	Design/Fabrication project	RT4103M	Design/Fabrication project	0
	RT42031	Production Planning and control	RT42031	Production Planning and control	0
	RT42032	Green Engineering Systems	RT42032	Green Engineering Systems	0
	RT42033A	Experimental Stress Analysis	RT42033A	Experimental Stress Analysis	0
	RT42033B	Mechatronics	RT42033B	Mechatronics	0
	RT42033C	Advanced Materials	RT42033C	Advanced Materials	0
VIII	RT42033D	Power Plant Engineering	RT42033D	Power Plant Engineering	0
	RT42034A	Non Destructive Evaluation	RT42034A	Non Destructive Evaluation	0
	RT42034B	Advanced Optimization techniques	RT42034B	Advanced Optimization techniques	0
	RT42034C	Gas Dynamics and Jet Propulsion	RT42034C	Gas Dynamics and Jet Propulsion	0
	RT42034D	Quality &Reliability Engineering	RT42034D	Quality &Reliability Engineering	0
	RT42035	Project Work	RT42035	Project Work	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 Electronics and Communication Engineering

Programme Name : B.Tech ECE

	List of Courses for the Academic Year 2017-2018		List of Courses for the Academic Year 2018-2019		
Semester	Course Code	Course Name	Course Code	Course Name	Percentage of content changed for existing year
I	171HS1T01	English - I	171HS1T01	English - I	0
	171BS1T01	Mathematics – I	171BS1T01	Mathematics – I	0
	171BS1T02	Mathematics - II	171BS1T02	Mathematics - II	0
	171BS1T04	Applied Physics	171BS1T04	Applied Physics	0
	171ES1T03	Engineering Drawing	171ES1T03	Engineering Drawing	0
	171ES1T01	Computer Programming	171ES1T01	Computer Programming	0
	171HS1L01	English Communication Skills Lab - I	171HS1L01	English Communication Skills Lab - I	0
	171BS1L04	Applied Physics Lab	171BS1L04	Applied Physics Lab	0
	171ES1L01	Computer Programming Lab	171ES1L01	Computer Programming Lab	0
II	171HS2T03	English – II	171HS2T03	English – II	0
	171BS2T06	Mathematics – III	171BS2T06	Mathematics – III	0
	171HS2T02	Environmental Studies	171HS2T02	Environmental Studies	0
	171BS2T05	Applied Chemistry	171BS2T05	Applied Chemistry	0
	171ES2T06	Electrical and Mechanical Technology	171ES2T06	Electrical and Mechanical Technology	0
	171CS2T01	Data Structures through c	171CS2T01	Data Structures through c	0
	171HS2L02	English Communication Skills Lab – II	171HS2L02	English Communication Skills Lab – II	0
	171BS2L03	Applied Chemistry Lab	171BS2L03	Applied Chemistry Lab	0
	171ES2L02	Engineering Workshop And IT Workshop	171ES2L02	Engineering Workshop And IT Workshop	0

	List of Courses for the Academic Year 2017-2018			List of Courses for the Academic Year 2018-2019		
Semester	Course Code	Course Name	Course Code	Course Name	Percentage of content changed for existing year
III	R1621041	Electronic Devices and Circuits	171EC3T01	Electronic Devices and Circuits	16.6
	R1621042	Switching Theory and Logic Design	171EC3T02	Switching Theory and Logic Design	0
	R1621043	Signals and Systems	171EC3T03	Signals and Systems	8
	R1621044	Network Analysis	171ES3T15	Network Analysis	0
	R1621045	Random Variables and Stochastic Process	171EC3T04	Random Variables and Stochastic Processes	5.5
	R1621026	Managerial Economics & Financial Analysis	171HS3T04	Managerial Economics and Financial Analysis	24
	R1621046	Electronic Devices and Circuits Lab	171EC3L01	Electronic Devices and Circuits Lab	29.4
			171ES3L08	Networks and Electrical Technology Lab	20
	R1621047	Networks & Electrical Technology Lab	171HS3A09	Professional Ethics and Human Values	10
			171HS3A10	Employability Skills – I	100
IV	R1622041	Electronic Circuit Analysis	171EC4T05	Electronic Circuit Analysis	16.6
	R1622042	Control Systems	171EC4T06	Electromagnetic Waves and Transmission Lines	0
	R1622043	Electromagnetic Waves and Transmission Lines	171EC4T07	Analog Communications	0
	R1622044	Analog Communications	171EC4T08	Pulse and Digital Circuits	0
	R1622045	Pulse and Digital Circuits	171HS4T05	Management Science	20
	R1622026	Management Science	171ES4T28	Linear Control Systems	0
	R1622046	Electronic Circuit Analysis Lab	171HS4T08	IPR and Patents	0
			171EC4L02	Electronic Circuit Analysis Lab	17.6
	R1622047	Analog Communications Lab	171EC4L03	Analog Communications Lab	29.4
			171HS4A11	Employability Skills – II	100
V	RT31041	Pulse & Digital Circuits	R1631041	Computer Architecture and Organization	50
	RT31042	Linear IC Applications	R1631042	Linear I C Applications	5
	RT31043	Control Systems	R1631043	Digital I C Applications	50

List of Courses for the Academic Year 2017-2018			List of Courses for the Academic Year 2018-2019		
Semester	Course Code	Course Name	Course Code	Course Name	Percentage of content changed for existing year
V	RT31044	Digital System Design & Digital IC Applications	R1631044	Digital Communications	0
	RT31045	Antennas and Wave Propagation	R1631045	Antenna and Wave Propagation	0
	RT31047	Pulse & Digital Circuits Lab	R1631046	Pulse and Digital Circuits Lab	0
	RT31048	LIC Applications Lab	R1631047	Linear I C Applications Lab	5
	RT31049	Digital System Design & DICA Lab	R1631048	Digital I C Applications Lab	30
	RT31016	IPR& Patents	R1631049	Professional Ethics & Human Values	25
VI	1RT32041	Microprocessors and Microcontrollers	R1632041	Micro Processors & Micro Controllers	35
	1RT32042	Digital Signal Processing	R1632042	Micro Wave Engineering	0
	1RT32043	Digital Communications	R1632043	VLSI Design	60
	1RT32044	Microwave Engineering	R1632044	Digital Signal Processing	5
	RT32045A	Open Elective--Bio Medical Engineering	R163204A	OOPs through Java	70
			R163204B	Data Mining	100
	RT32046	Microprocessors and Microcontrollers Lab	R163204C	Industrial Robotics	100
			R163204E	Power Electronics	100
	RT32047	Digital Communications Lab	R163204D	Bio-Medical Engineering	0
			R163204F	Artificial Neural Networks	0
	RT32048	Digital Signal Processing Lab	R1632046	Micro Processors & Micro Controllers Lab	40
			R1632047	VLSI Lab	20
	RT32049	Seminar	R1632048	Digital Communications Lab	0
			R1632049	IPR & Patents	18
VII	RT41041	VLSI Design	RT41041	VLSI Design	0
	RT41042	Computer Networks	RT41042	Computer Networks	0
	RT41043	Digital Image Processing	RT41043	Digital Image Processing	0

	List of Courses for the Academic Year 2017-2018			List of Courses for the Academic Year 2018-2019		
Semester	Course Code	Course Name	Course Code	Course Name	Percentage of content changed for existing year
VII	RT41044	Computer Architecture & Organization	RT41044	Computer Architecture & Organization	0
	RT41045	Electronic Switching Systems	RT41045	Electronic Switching Systems	0
	RT41046	Analog IC Design	RT41046	Analog IC Design	0
	RT41047	Object Oriented Programming & O S	RT41047	Object Oriented Programming & O S	0
	RT41048	Radar Systems	RT41048	Radar Systems	0
	RT41049	Advanced Computer Architecture	RT41049	Advanced Computer Architecture	0
	RT4104A	Optical Communication	RT4104A	Optical Communication	0
	RT4104B	Digital IC Design	RT4104B	Digital IC Design	0
	RT4104C	Speech Processing	RT4104C	Speech Processing	0
	RT4104D	Artificial Neural Network & Fuzzy Logic	RT4104D	Artificial Neural Network & Fuzzy Logic	0
	RT4104E	Network Security & Cryptography	RT4104E	Network Security & Cryptography	0
	RT4104L	V L S I Lab	RT4104L	VLSI Lab	0
	RT4104M	Microwave Engineering Lab	RT4104M	Microwave Engineering Lab	0
VIII	RT42041	Cellular Mobile Communication	RT42041	Cellular Mobile Communication	0
	RT42042	Electronic Measurements and Instrumentation	RT42042	Electronic Measurements and Instrumentation	0
	RT42043A	Satellite Communication	RT42043A	Satellite Communication	0
	RT42043B	Mixed signal Design	RT42043B	Mixed signal Design	0
	RT42043C	Embedded systems	RT42043C	Embedded systems	0
	RT42043D	RF Circuit Design	RT42043D	RF Circuit Design	0
	RT42043E	Cloud Computing	RT42043E	Cloud Computing	0
	RT42044A	Wireless Sensors and Networks	RT42044A	Wireless Sensors and Networks	0
	RT42044B	System on Chip	RT42044B	System on Chip	0
	RT42044C	Low Power IC Design	RT42044C	Low Power IC Design	0

List of Courses for the Academic Year 2017-2018			List of Courses for the Academic Year 2018-2019		
Semester	Course Code	Course Name	Course Code	Course Name	Percentage of content changed for existing year
VIII	RT42044D	Bio-Medical Instrumentation	RT42044D	Bio-Medical Instrumentation	0
	RT42044E	EMI/EMC	RT42044E	EMI/EMC	0
	RT42045	Project & Seminar	RT42045	Project & Seminar.	0

A Kad

Program Coordinator

Q. Sidros

Head of the Department

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Program Name: B. Tech in Computer Science and Engineering

Semester	List of courses for the Academic Year 2017-2018		List of courses for the Academic Year 2018-2019		
	Course Code	Course Name	Course Code	Course Name	% of content revised for the existing year
I	171HS1T01	English – I	171HS1T01	English – I	0
	171BS1T01	Mathematics – I	171BS1T01	Mathematics – I	0
	171BS1T02	Mathematics – II	171BS1T02	Mathematics – II	0
	171BS1T04	Applied Physics	171BS1T04	Applied Physics	0
	171ES1T03	Engineering Drawing	171ES1T03	Engineering Drawing	0
	171ES1T01	Computer Programming	171ES1T01	Computer Programming	0
	171HS1L01	English Communication Skills Lab – I	171HS1L01	English Communication Skills Lab – I	0
	171BS1L04	Applied Physics Lab	171BS1L04	Applied Physics Lab	0
	171ES1L01	Computer Programming Lab	171ES1L01	Computer Programming Lab	0
II	171HS2T03	English – II	171HS2T03	English – II	0
	171BS2T06	Mathematics – III	171BS2T06	Mathematics – III	0
	171HS2T02	Environmental Studies	171HS2T02	Environmental Studies	0
	171BS2T05	Applied Chemistry	171BS2T05	Applied Chemistry	0
	171ES2T02	Engineering Mechanics	171ES2T02	Engineering Mechanics	0
	171CS2T01	Data Structures through C	171CS2T01	Data Structures through C	0
	171HS2L02	English Communication Skills Lab – II	171HS2L02	English Communication Skills Lab – II	0
	171BS2L03	Applied Chemistry Lab	171BS2L03	Applied Chemistry Lab	0
	171ES2L02	Engineering Workshop & IT Workshop	171ES2L02	Engineering Workshop & IT Workshop	0
III	R1621051	Statistics with R Programming	171BS3T08	Mathematical Foundations of Computer Science	25
	R1621052	Mathematical Foundations of Computer Science	171ES3T23	Digital Logic Design	0
	R1621053	Digital Logic Design	171CS3T02	Statistics with R Programming	80
	R1621054	Python Programming	171CS3T03	Object Oriented Programming Through C++	0
	R1621055	Data Structures through C++	171HS3T04	Managerial Economics & Financial Analysis	0
	R1621056	Computer Graphics	171CS3T04	Advanced Data Structures	0
	R1621057	Data Structures through C++Lab	171CS3L01	Object Oriented Programming Lab	80
	R1621058	Python Programming Lab	171CS3L02	Advanced Data Structures Lab	30
			171HS3A10	Employability Skills – I	100
			171HS3A09	Professional Ethics & Human Values	0

Semester	Course Code	Course Name	Course Code	Course Name	% of content revised for the existing year
IV	R1622051	Software Engineering	171CS4T05	Software Engineering	50
	R1622052	Java Programming	171CS4T06	Formal Languages & Automata Theory	0
	R1622053	Advanced Data Structures	171CS4T07	Java Programming	0
	R1622054	Computer Organization	171CS4T08	Database Management Systems	0
	R1622055	Formal Languages and Automata Theory	171CS4T09	Principles of Programming Languages	0
	R1622056	Principles of Programming Languages	171CS4T10	Computer Organization	20
	R1622057	Advanced Data Structures Lab	171CS4L03	Java Programming Lab	50
	R1622058	Java Programming Lab	171CS4L04	Database Management Systems Lab	20
			171HS4A11	Employability Skills – II	100
			171HS4A08	IPR & Patents	0
V	RT31051	Compiler Design	R1631051	Compiler Design	0
	RT31052	Data Communication	R1631052	Unix Programming	0
	RT31053	Principles Of Programming Languages	R1631053	Object Oriented Analysis and Design using UML	0
	RT31054	Data Base Management Systems	R1631054	Database Management Systems	0
	RT31055	Operating Systems	R1631055	Operating Systems	0
	RT31056	Compiler Design Lab	R1631056	Unified Modeling Lab	0
	RT31057	Operating Systems & Linux Programming Lab	R1631057	Operating System & Linux Programming Lab	0
	RT31058	Database Management Systems Lab	R1631058	Database Management System Lab	0
	RT31059	Seminar	R1631049	Professional Ethics & Human Values	0
VI	RT32051	Software Engineering	R1632049	IPR & Patents	0
	RT32052	Data Ware housing and Mining	R1632051	Computer Networks	0
	RT32053	Computer Networks	R1632052	Data Warehousing and Mining	0
	RT32054	Design and Analysis of Algorithms	R1632053	Design and Analysis of Algorithms	0
	RT32055	Web Technologies	R1632054	Software Testing Methodologies	70
	RT32056	IPR and Patents	R163205A	Artificial Intelligence	0
	RT32057	Computer Networks And Network Programming Lab	R163205B	Internet of Things	100
	RT32058	Software Engineering Lab	R163205C	Cyber Security	100
	RT32059	Web Technologies Lab	R163205D	Digital Signal Processing	100
			R163205E	Embedded Systems	100
			R163205F	Robotics	100
			R1632056	Network Programming Lab	100
			R1632057	Software Testing Lab	100
			R1632058	Data Warehousing and Mining Lab	0

Semester	Course Code	Course Name	Course Code	Course Name	% of content revised for the existing year
VII	RT41051	Cryptography and Network Security	RT41051	Cryptography and Network Security	0
	RT41052	UML and Design Patterns	RT41052	UML and Design Patterns	0
	RT41053	Mobile Computing	RT41053	Mobile Computing	0
	RT41054	Software Testing Methodologies	RT41054	Software Testing Methodologies	0
	RT41055	Simulation Modeling	RT41055	Simulation Modeling	0
	RT41056	Information Retrieval Systems	RT41056	Information Retrieval Systems	0
	RT41057	Artificial Intelligence	RT41057	Artificial Intelligence	0
	RT41058	Multimedia Computing	RT41058	Multimedia Computing	0
	RT41059	High Performance Computing	RT41059	High Performance Computing	0
	RT4105A	Digital Forensics	RT4105A	Digital Forensics	0
	RT4105B	Hadoop and Big Data	RT4105B	Hadoop and Big Data	0
	RT4105C	Software Project Management	RT4105C	Software Project Management	0
	RT4105D	Machine Learning	RT4105D	Machine Learning	0
	RT4105E	Advanced Databases	RT4105E	Advanced Databases	0
	RT4105M	Mobile Application Development Lab	RT4105M	Mobile Application Development Lab	0
	RT4105N	Software Testing Lab	RT4105N	Software Testing Lab	0
	RT4105O	Hadoop and Bigdata Lab	RT4105O	Hadoop and Bigdata Lab	0
	RT4105L	UML and Design Patterns Lab	RT4105L	UML and Design Patterns Lab	0
VIII	RT42051	Distributed Systems	RT42051	Distributed Systems	0
	RT42052	Management Science	RT42052	Management Science	0
	RT42053A	Human Computer Interaction	RT42053A	Human Computer Interaction	0
	RT42053B	Advanced Operating Systems	RT42053B	Advanced Operating Systems	0
	RT42053C	Mobile Adhoc & Sensor Networks	RT42053C	Mobile Adhoc & Sensor Networks	0
	RT42053D	Pattern Recognition	RT42053D	Pattern Recognition	0
	RT42053E	Digital Image Processing	RT42053E	Digital Image Processing	0
	RT42053F	Micro processers and Multi Core Systems	RT42053F	Micro processers and Multi Core Systems	0
	RT42043B	Embedded and Real Time Systems	RT42043B	Embedded and Real Time Systems	0
	RT42043C	Neural Networks & Soft Computing	RT42043C	Neural Networks & Soft Computing	0
	RT42043D	Social Networks and the Semantic Web	RT42043D	Social Networks and the Semantic Web	0
	RT42043E	Cloud Computing	RT42043E	Cloud Computing	0
	RT42055	Project	RT42055	Project	0

Program Coordinator

Head of the Department

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Department of Information Technology

Semester	List of Courses for the Academic Year 2017-2018		List of Courses for the Academic Year 2018-2019		
Semester	Course Code	Course Name	Course Code	Course Name	Percentage of content changed for existing year
I	171HS1T01	English – I	171HS1T01	English – I	0
	171BS1T01	Mathematics – I	171BS1T01	Mathematics – I	0
	171BS1T02	Mathematics – II	171BS1T02	Mathematics – II	0
	171BS1T04	Applied Physics	171BS1T04	Applied Physics	0
	171ES1T03	Engineering Drawing	171ES1T03	Engineering Drawing	0
	171ES1T01	Computer Programming	171ES1T01	Computer Programming	0
	171HS1L01	English Communication Skills Lab – I	171HS1L01	English Communication Skills Lab – I	0
	171BS1L04	Applied Physics Lab	171BS1L04	Applied Physics Lab	0
	171ES1L01	Computer Programming Lab	171ES1L01	Computer Programming Lab	0
II	171HS2T03	English – II	171HS2T03	English – II	0
	171BS2T06	Mathematics – III	171BS2T06	Mathematics – III	0
	171HS2T02	Environmental Studies	171HS2T02	Environmental Studies	0
	171BS2T05	Applied Chemistry	171BS2T05	Applied Chemistry	0
	171ES2T02	Engineering Mechanics	171ES2T02	Engineering Mechanics	0
	171CS2T01	Data Structures through C	171CS2T01	Data Structures through C	0
	171HS2L02	English Communication Skills Lab – II	171HS2L02	English Communication Skills Lab – II	0
	171BS2L03	Applied Chemistry Lab	171BS2L03	Applied Chemistry Lab	0
	171ES2L02	Engineering Workshop & IT Workshop	171ES2L02	Engineering Workshop & IT Workshop	0
	171HS2T03	English – II	171BS3T08	Mathematical	0

				Foundations of Computer Science	
III	R1621051	Statistics with R Programming	171ES3T23	Digital Logic Design	0
	R1621052	Mathematical Foundations of Computer Science	171CS3T02	Statistics with R Programming	0
	R1621053	Digital Logic Design	171CS3T03	Object Oriented Programming through C++	0
	R1621054	Python Programming	171HS3T04	Managerial Economics & Financial Analysis	0
	R1621055	Data Structures through C++	171CS3T04	Advanced Data Structures	0
	R1621057	Data Structures through C++ Lab	171CS3L01	Object Oriented Programming Lab	0
	R1621058	Python Programming Lab	171CS3L02	Advanced Data Structures Lab	0
			171HS3A10	Employability Skills – I	100
IV	R1622121	Computer Graphics	171HS3A09	Professional Ethics & Human Values	0
	R1622052	Java Programming	171CS4T05	Software Engineering	
	R1622122	E-Commerce	171IT4T01	Language Processors	100
	R1622054	Computer Organization	171CS4T07	Java Programming	0
	R1622123	Object Oriented Analysis and Design using UML	171CS4T08	Database Management Systems	0
	R1622056	Principles of Programming Languages	171HS4T05	Management Science	0
	R1622124	Unified Modeling Languages Lab	171CS4T10	Computer Organization	0
	R1622058	Java Programming Lab	171CS4L03	Java Programming Lab	0
			171CS4L04	Database Management Systems Lab	0
			171HS4A11	Employability Skills – II	100
					0
V	RT31121	Software	171HS4A08	IPR & Patents	0

				Engineering	
	RT31052	Data Communication	R1631121	Human Computer Interaction	100
	RT31123	Advanced JAVA	R1631052	Unix and Shell Programming	0
	RT31054	Database Management Systems	R1631122	Advanced Java Programming	0
	RT31055	Operating Systems	R1631054	Database Management Systems	0
	RT31126	Advanced JAVA Lab	R1631055	Operating Systems	0
	RT31127	Operating System Lab	R1631123	Advanced Java Programming Lab	0
	RT31128	Database Management Systems Lab	R1631124	Unix and Operating Systems Lab	0
	RT31057	Linux Programming Lab	R1631125	Database Management System Lab	0
			R1631049	Professional Ethics & Human Values	0
VI	RT31016	IPR and Patents-1	R1632051	Computer Networks	0
	RT31059	Seminar	R1632121	Data Mining	100
	1RT32053	Computer Networks	R1632122	Web Technologies	0
	1RT32052	Data Ware housing and Mining	R1632054	Software Testing Methodologies	0
	1RT32054	Design and Analysis of Algorithms	R163205A	Artificial Intelligence	0
	1RT32121	Software Testing	R1632123A	Social Networks and Semantic Web	100
	1RT32055	Web Technologies	R1632055D	Digital Signal Processing	0
	RT32127	Computer Networks Lab	R1632055E	Embbeded Systems	0
	RT32128	Software Testing Lab	R1632025D	Robotics	0
	RT32129	Web Technologies Lab	R1632123B	Operations Research	100
			R1632124	Web Technologies Lab	0
			R1632125	Software Testing Lab	0
			R1632126	Data Mining Lab	100

	Code	Subject		Code	Subject	
				R1632049	IPR & Patents	0
VII	1RT32056	IPR and Patents-II		RT41051	Cryptography and Network Security	0
	RT41051	Cryptography and Network Security		RT41052	UML & Design Patterns	0
	RT41052	UML & Design Patterns		RT41053	Mobile Computing	0
	RT41053	Mobile Computing		RT41121	Embedded and Real Time Sytems	0
	RT41121	Embedded and Real Time Systems		RT41056	Information Retreival Systems	0
	RT41056	Information Retreival Systems		RT41058	Multimedia Computing	0
	RT41058	Multimedia Computing		RT4105B	Haddop and Big Data	0
	RT4105B	Haddop and Big Data		RT4105C	Software Project Management	0
	RT4105C	Software Project Management		RT41122	Computer Vision	0
	RT41122	Computer Vision		RT4105E	Advanced Databases	0
	RT4105E	Advanced Databases		RT4112L	UML & Design Patterns Lab	0
	RT4112L	UML & Design Patterns Lab		RT4112M	Mobile Application Development Lab	0
	RT4112M	Mobile Application Development Lab		RT4112O	Software Engineering Lab	0
	RT4112O	Software Engineering Lab		RT4112N	Hadoop & BigData Lab	0
	RT4112N	Hadoop & BigData Lab		RT42053A	Human Computer Interaction	0
	RT42121	MATHEMATICAL OPIMIZATION		RT42053B	Advanced Operating Systems	0
	RT42051	DISTRIBUTED SYSTEMS		PT42053C	Mobile Adhoc & Sensor Networks	0
	RT42052	MANAGEMENT SCIENCE		PT42053D	Pattern Recognition	0
VIII	RT42053A	HUMAN COMPUTER INTERACTION		RT42051	Distributed Systems	0
	RT42053B	ADVANCED OPERATING SYSTEMS		RT42121	Mathematical Opimization (LP, Scheduling, Simulation, QT, Markov analysis, NLP, PERT CPM Network related	0

				problems etc)	
RT42053C	MOBILE ADHOC & SENSOR NETWORKS	RT42052	Management Science	0
RT42053D	pattern Recognisation			0
RT42122	Project			0

Program Coordinator

Head of the Department

Head of the Depa.
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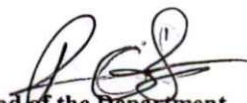
DEPARTMENT OF PETROLEUM TECHNOLOGY
Programme Name :B. Tech PT

		List of courses for the Academic Year 2017-2018		List of courses for the Academic Year 2018-2019		
Semester	Course Code	Course Name	Course Code	Course Name	% of content revised for the existing year
I	171HS1T01	English - I	171HS1T01	English - I	0
	171BS1T01	Mathematics - I	171BS1T01	Mathematics - I	0
	171HS1T02	Environmental Studies	171HS1T02	Environmental Studies	0
	171BS1T03	Engineering Chemistry	171BS1T03	Engineering Chemistry	0
	171ES1T02	Engineering Mechanics	171ES1T02	Engineering Mechanics	0
	171ES1T01	Computer Programming	171ES1T01	Computer Programming	0
	171HS1L01	English Communication Skills Lab - I	171HS1L01	English Communication Skills Lab - I	0
	171BS1L01	Engineering Chemistry Lab	171BS1L01	Engineering Chemistry Lab	0
	171ES1L01	Computer Programming Lab	171ES1L01	Computer Programming Lab	0
II	171HS2T03	English - II	171HS2T03	English - II	0
	171BS2T06	Mathematics - III	171BS2T06	Mathematics - III	0
	171BS2T02	Mathematics - II	171BS2T02	Mathematics - II	0
	171BS2T07	Engineering Physics	171BS2T07	Engineering Physics	0
	171ES2T03	Engineering Drawing	171ES2T03	Engineering Drawing	0
	171ES2T07	Elements Of Mechanical Engineering	171ES2T07	Elements Of Mechanical Engineering	0
	171HS2L02	English Communication Skills Lab - II	171HS2L02	English Communication Skills Lab - II	0
	171BS2L02	Engineering Physics Lab	171BS2L02	Engineering Physics Lab	0
	171ES2L02	Engineering Workshop And IT Workshop	171ES2L02	Engineering Workshop And IT Workshop	0
III	R1621081	Complex Variables	171BS3T09	Complex Variables	25
	R1621012	Basic Electrical And Electronics Engineering	171ES3T16	Materials Science And Engineering	0
	R1621272	General Geology	171ES3T17	General Geology	0
	R1621273	Surveying And Offshore Structures	171ES3T18	Surveying And Offshore Structures	0
	R1621084	Chemical Process Calculations	171PT3T01	Chemical Process Calculations	0
	R1621271	Materials Science And Engineering	171ES3T05	Basic Electrical And Electronics Engineering	0
	R1621085	Basic Engineering (Mech. + Elec.) Lab	171ES3L09	Basic Engineering Lab	0
	R1621274	Geology And Surveying Lab	171ES3L10	Geology And Surveying Lab	0
	R1621075	Managerial Economics And Financial Analysis	171HS3A10	Employability Skills - I	100

				171HS3A09	Professional Ethics And Human Values	0
IV	R1622271	Probability And Statistics		171BS4T10	Probability And Statistics	25
	R1622272	Momentum Transfer		171PT4T02	Momentum Transfer	0
	R1622273	Petroleum Geology		171PT4T03	Petroleum Geology	0
	R1622274	Thermodynamics For Petroleum Engineers		171PT4T04	Thermodynamics For Petroleum Engineers	0
	R1622275	Process Heat Transfer		171PT4T05	Process Heat Transfer	0
	R1622276	Petroleum Exploration		171HS4T05	Management Science	0
	R1622277	Momentum Transfer Lab		171PT4L01	Momentum Transfer Lab	0
	R1622278	Process Heat Transfer Lab		171PT4L02	Process Heat Transfer Lab	0
	R1621019	Professional Ethics And Human Values		171HS4A11	Employability Skills - II	100
				171HS4A08	IPR And Patents	0
V	RT31086	Process Instrumentation		R1631011	Management Science	0
	RT31271	Petroleum Exploration		R1631271	Process Dynamics And Control	0
	RT31272	Well Logging And Formation Evaluation		R1631272	Process Instrumentation	0
	RT31273	Drilling Technology		R1631273	Well Logging And Formation Evaluation	0
	RT31274	Well Engineering		R1631274	Drilling Technology	72
	RT31275	Process Dynamics And Control		R1631275	Mathematical Methods Lab	0
	RT31277	Instrumentation And Process Control Lab		R1631276	Instrumentation Process Dynamics And Control Lab	0
	RT31278	Drilling Fluids Lab		R1631277	Drilling Fluids Lab	0
				R1631278	Industrial Visits	0
				R1631279	Mini Project-I	0
VI	RT32271	Well Completions		R1632271	Well Completions Testing And Servicing	0
	RT32272	Petroleum Reservoir Engineering-I		R1632272	Petroleum Production Engineering	20
	RT32273	Petroleum Production Engineering And Design		R1632273	Petroleum Reservoir Engineering-I	0
	RT32274	Petroleum Refinery And Petrochemical Engineering		R1632274	Petroleum Refinery And Petrochemical Engineering	0
	RT32275	Surface Production Operations		R163227A	Electronoic Instrument	0
	RT32277	Petroleum Analysis Lab		R163227C	Big Data Analytics	0
	RT32278	Drilling Simulation Lab		R163227D	Alternative Energy Sources For Automobiles	0
	RT32056	IPR Patents		R163227E	Computational Fluid Dynamics	0
				R163227B	Fundamentals Of Liquefied Natural Gas	0
				R1632276	Drilling Simulation Lab	0
				R1632277	Petroleum Analysis Lab	0
				R1632278	Petroleum Reservoir Engineering Lab	0
				R1632279	Summer Internship (4-6 Weeks)	0
				R1632280	Mini Project-II	0

	RT41271	Integrated Asset Management	RT41271	Integrated Asset Management	0
	RT41272	Enhanced Oil Recovery Techniques	RT41272	Enhanced Oil Recovery Techniques	0
	RT41273	HSE And FE In Petroleum Industry	RT41273	Hse And Fe In Petroleum Industry	0
	RT41274	Petroleum Reservoir Engineering - II	RT41274	Petroleum Reservoir Engineering Ii	0
	RT41016F	Green Fuel Technologies	RT41016B	Fundamentals Of Petroleum Industry	0
	RT41016A	Energy Management	RT41016F	Green Technologies	0
VII	RT41016B	Fundamentals Of Petroleum Industry	RT41016A	Energy Mangement	0
	RT41016C	Offshore Enginnering	RT41016C	Offshore Enginnering	0
	RT41016D	Pipeline Enginnering	RT41016D	Pipeline Enginnering	0
	RT41279	Coal Bed Methane Engineering	RT41279	Coal Bed Methane Engineering	0
	RT4127L	Petroleum Equipment Design And Simulation Lab	RT4127L	Petroleum Equipment Design And Simulation Lab	0
	RT4127M	Petroleum Reservoir Engineering Lab	RT4127M	Petroleum Reservoir Engineering Lab	0
	RT4127N	Presentation Of Sip Report	RT4127N	Presentation Of Sip Report	0
	RT42275	Project	RT42275	Project	0
	RT42271	Petroleum Economics And Regulations And Policies	RT42271	Petroleum Economics And Regulations And Policies	0
	RT42272A	Reservoir Modeling And Simulation	RT42272A	Reservoir Modeling And Simulation	0
	RT42272B	Horizontal Well Technology	RT42272B	Horizontal Well Technology	0
VIII	RT42272C	Lng-Processes And Transportation And Storage	RT42272C	Lng-Processes And Transportation And Storage	0
	RT42273A	Reservoir Stimulation	RT42273A	Reservoir Stimulation	0
	RT42273B	Subsea Engineering	RT42273B	Subsea Engineering	0
	RT42273C	Fundamentals Of Multiphase Flow	RT42273C	Fundamentals Of Multiphase Flow	0
	RT42274A	Natural Gas Hydrates	RT42274A	Natural Gas Hydrates	0
	RT42274B	Advanced Natural Gas Engineering	RT42274B	Advanced Natural Gas Engineering	0
	RT42274C	Petroleum Biotechnology	RT42274C	Petroleum Biotechnology	0

Programme Coordinator

Head of the Department

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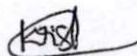
Department of Agricultural Engineering

Semester	List Of Courses for the Academic Year 2017-2018		List Of Courses for the Academic Year 2018-2019		Percentage of content changed for existing year
	Course Code	Course Name	Course Code	Course Name	
I	171HS1T01	English – I	171HS1T01	English – I	0
	171BS1T01	Mathematics – I	171BS1T01	Mathematics – I	0
	171HS1T02	Environmental Studies	171HS1T02	Environmental Studies	0
	171BS1T03	Engineering Chemistry	171BS1T03	Engineering Chemistry	0
	171ES1T02	Engineering Mechanics	171ES1T02	Engineering Mechanics	0
	171ES1T01	Computer Programming	171ES1T01	Computer Programming	0
	171HS1L01	English Communication Skills Lab – I	171HS1L01	English Communication Skills Lab – I	0
	171BS1L01	Engineering Chemistry Lab	171BS1L01	Engineering Chemistry Lab	0
	171ES1L01	Computer Programming Lab	171ES1L01	Computer Programming Lab	0
II	171HS2T03	English – II	171HS2T03	English – II	0
	171BS2T02	Mathematics - II	171BS2T02	Mathematics - II	0
	171BS2T06	Mathematics - III	171BS2T06	Mathematics - III	0
	171BS2T07	Engineering Physics	171BS2T07	Engineering Physics	0
	171ES2T03	Engineering Drawing	171ES2T03	Engineering Drawing	0
	171ES2T08	Theory of Machines	171ES2T08	Theory of Machines	0
	171HS2L02	English Communication Skills Lab – II	171HS2L02	English Communication Skills Lab – II	0
	171BS2L02	Engineering Physics Lab	171BS2L02	Engineering Physics Lab	0
	171ES2L02	Engineering Workshop & IT Workshop	171ES2L02	Engineering Workshop & IT Workshop	0
III	R1621351	Fluid Mechanics and Open Channel Hydraulics	171AG3T01	Principles of Soil Science and Agronomy	20
	R1621352	Renewable Energy Sources	171AG3T02	Renewable Energy Sources	20
	R1621353	Ground Water Hydrology, Well and Pumps	171AG3T03	Ground Water Hydrology, Wells and Pumps	10
	R1621354	Properties and Strength of Materials	171ES3T19	Properties and Strength of Materials	20
	R1621355	Electrical Systems	171ES3T20	Electrical and Electronics Engineering	25
	R1621356	Surveying	171ES3T21	Surveying and Leveling	0

	R1621357	Fluid Mechanics and Open Channel Hydraulics Lab	171AG3L01	Soil Science and Agronomy Field Lab	10
	R1621358	Surveying Lab	171ES3L11	Surveying and Leveling Lab	0
			171HS3A10	Employability Skills - I	100
			171HS3A09	Professional Ethics and Human Values	0
IV	R1622351	Theory of Structures	171AG4T04	Thermodynamics and Refrigeration Systems	0
	R1622352	Heat and Mass Transfer	171AG4T05	Heat and Mass Transfer	20
	R1622353	Theory of Machines	171ES4T25	Fluid Mechanics and Open Channel Hydraulics	20
	R1622354	Soil Mechanics	171AG4T06	Soil Mechanics	0
	R1622355	Surface Water Hydrology	171AG4T07	Surface Water Hydrology	20
	R1622356	Farm Power and Tractor Systems	171AG4T08	Engineering Properties of Biological Materials and Food Quality	0
	R1622357	Soil Science and Agronomy Field Lab	171ES4L14	Fluid Mechanics and Open Channel Hydraulics Lab	10
	R1622358	Machine Drawing and Computer Graphics Lab	171ES4L15	Machine Drawing and Computer Graphics Lab	0
			171HS4A11	Employability Skills – II	100
			171HS4A08	Intellectual Property Rights and Patents	0
V	RT31016	IPR & Patents	R1631351	Thermodynamics and Refrigeration systems	0
	RT31267	Advanced English Communications Skills Lab	R1631352	Soil and Water Conservation Engineering	0
	RT31351	Thermodynamics and Refrigeration systems	R1631353	Agricultural Process Engineering	0
	RT31352	Soil and water Conservation Engineering	R1631354	Engineering Properties of Biological Materials and Food Quality	0
	RT31353	Agricultural Process Engineering	R1631355	Managerial Economics & Financial Analysis	0
	RT31354	Engineering Properties of Biological Materials and Food Quality	R1631356	Agricultural Process Engineering Lab	0
	RT31355	Agricultural Extension Techniques and Business Management	R1631357	Advanced English Communications Skills Lab	0
	RT31358	Farm Machinery Lab	R1631358	Field Operation and Maintenance of Tractors Lab - 1	0
	RT31359	Seminar	R1631029	IPR & Patents	0
	RT32351	Irrigation And Drainage Engineering	R1632029	Professional Ethics & Human Values	0
	RT32352	Farm Machinery And Equipment I	R1632351	Irrigation and Drainage Engineering	0
	RT32353	Design Of Soil & Water Conservation And Farm Structures	R1632352	Farm Machinery and Equipment - I	0
	RT32354	Dairy And Food Engineering	R1632353	Design of Soil Water Conservation and Farm Structures	0
	RT32355	Theory Of Structures	R1632354	Dairy and Food Engineering	0
	RT32356A	Operations Research	R163235A	Operations Research	0

VI	RT32356C	Robotics & Automation	R163235C	Robotics& Automation	0
	RT32356D	Industrial Pollution Control Engineering	R163235D	Industrial Pollution Control Engineering	0
	RT32356E	Advanced Separation Technology	R163235E	Finite Element Method	0
	RT32356F	Mechatronics	R163235F	Water Resources System Planning and Management	0
	RT32356G	Finite Element Method	R1632356	Farm Machinery Lab - 1	0
	RT32356H	Soil Dynamics and Machine Foundations	R1632357	Field Operation and Maintenance of Tractors Lab - 2	0
	RT32356I	Water Resources System Planning and Management	R1632358	Soil and Water Engineering Lab	0
	RT32356J	Green Technologies			
	RT32357	Agricultural Process Engineering Lab			
	RT32358	Soil And Water Engineering Lab			
VII	RT41351	Micro irrigation engineering	RT41351	Micro irrigation engineering	0
	RT41352	Farm machinery and equipments II	RT41352	Farm machinery and equipments II	0
	RT41353	Post harvest engineering for horticulture produce	RT41353	Post harvest engineering for horticulture produce	0
	RT41354	Mechanical measurements and instrumentation	RT41354	Mechanical measurements and instrumentation	0
	RT41355	Seed processing and storage engineering	RT41355	Seed processing and storage engineering	0
	RT41356	Managerial economics & financial Analysis	RT41356	Managerial economics & financial Analysis	0
	RT41357	Food processing plant design and layout	RT41357	Food processing plant design and layout	0
	RT41358	Watershed management	RT41358	Watershed management	0
	RT41359	Food packaging technology	RT41359	Food packaging technology	0
	RT41310	Computational Fluid Dynamics	RT41310	Computational Fluid Dynamics	0
	RT4135L	Field operation and maintenance of tractors and farm machinery lab	RT4135L	Field operation and maintenance of tractors and farm machinery lab	0
	RT4135M	Dairy and food engineering lab	RT4135M	Dairy and food engineering lab	0
VIII	RT42351	Design of agricultural machinery	RT42351	Design of agricultural machinery	0
	RT42352	Agro industries and bi-product utilization	RT42352	Agro industries and bi-product utilization	0
	RT42353A	GIS and remote sensing	RT42353A	GIS and remote sensing	0
	RT42353B	Human engineering and safety	RT42353B	Human engineering and safety	0
	RT42353C	Production Technology of Agricultural Machinery	RT42353C	Production Technology of Agricultural Machinery	0
	RT42354C	Principles of entrepreneurship	RT42354C	Principles of entrepreneurship	0

RT42354A	Minor Irrigation and Command area development	RT42354A	Minor Irrigation and Command area development	0
RT42354B	Hydraulic Devices and Control	RT42354B	Hydraulic Devices and Control	0
RT42355	Project work	RT42355	Project work	0

Program Coordinator

Head of the Department
Head of the Department
Department of Agricultural Engineering
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Department of Mining Engineering					
List of the Courses for The Academic year 2017-18			List of the Courses for The Academic year 2018-19		
Semester	Course Code	Course Name	Course Code	Course Name	Percentage of content changed for existing year
I	171HS1T01	English - I	171HS1T01	English - I	0
	171BS1T01	Mathematics - I	171BS1T01	Mathematics - I	0
	171HS1T02	Environmental Studies	171HS1T02	Environmental Studies	0
	171BS1T03	Engineering Chemistry	171BS1T03	Engineering Chemistry	0
	171ES1T02	Engineering Mechanics	171ES1T02	Engineering Mechanics	0
	171ES1T01	Computer Programming	171ES1T01	Computer Programming	0
	171HS1L01	English Communication Skills Lab - I	171HS1L01	English Communication Skills Lab - I	0
	171BS1L01	Engineering Chemistry Lab	171BS1L01	Engineering Chemistry Lab	0
	171ES1L01	Computer Programming Lab	171ES1L01	Computer Programming Lab	0
II	171HS2T03	English - II	171HS2T03	English - II	0
	171BS2T02	Mathematics - II	171BS2T02	Mathematics - II	0
	171BS2T06	Mathematics - III	171BS2T06	Mathematics - III	0
	171BS2T07	Engineering Physics	171BS2T07	Engineering Physics	0
	171ES2T03	Engineering Drawing	171ES2T03	Engineering Drawing	0
	171ES2T05	Basic Electrical and Electronics Engineering	171ES2T05	Basic Electrical and Electronics Engineering	0
	171HS2L02	English Communication Skills Lab – II	171HS2L02	English Communication Skills Lab – II	0
	171BS2L02	Engineering Physics Lab	171BS2L02	Engineering Physics Lab	0
	171ES2L02	Engineering Workshop and ITWorkshop	171ES2L02	Engineering Workshop and ITWorkshop	0
III	R1621261	Development of Mineral Deposits	171MI3T01	Introduction To Mining Technology	20
	R1621262	Thermal Engineering for Mining	171MI3T02	Basic Mechanical Engineering For Mines	60
	R1621034	Fluid Mechanics and Hydraulic Machines	171BS3T10	Probability and Statistics	100
	R1621035	Computer Aided Engineering Drawing Practice	171ME3T01	Computer Aided Engineering Drawing Practice	0
	R1621263	Mining Geology – I	171MI3T03	Mining Geology-I	15
	R1621026	Managerial Economics & Financial Analysis	171ES3T22	Material Engineering	0

	R1621036	Electrical and Electronics Engineering Lab	171ES3L12	Electrical and Electronics Lab	30
	R1621264	Fluid Mechanics and Hydraulic Machines Lab	171ES3L13	Basic Mechanical Engineering Lab	100
			171HS3A09	Professional Ethics and Human Values	0
	.		171HS3A10	Employability Skills-I	100
IV	R1622031	Kinematics of Machinery	171ES4T27	Kinematics Of Machinery	0
	R1622261	Materials Engineering	171MI4T04	Computer Application In Mining	0
	R1622262	Mining Geology – II	171MI4T05	Mining Geology –II	0
	R1622263	Mine Surveying – I	171MI4T06	Mine Surveying – I	10
	R1622264	Surface Mining	171MI4T07	Surface Mining	0
	R1622036	Industrial Engineering and Management	171MI4T08	Fundamentals Of Rock Mechanics	50
	R1622265	Geology Lab	171MI4L01	Geology Lab	0
	R1622266	Materials Lab	171MI4L02	Computer Application In Mining Lab	0
	R1622267	Professional Ethics & Human Values	171HS4A08	Intellectual Property Rights and Patents	0
			171HS4A11	Employability Skills-II	100
V	RT31261	Underground Coal Mining Technology	R1631261	Underground Coal Mining Technology	0
	RT31263	Mine Environment Engineering – I	R1631262	Mine Environment Engineering – I	0
	RT31264	Electrical Equipment in Mines	R1631263	Electrical Equipment in Mines	0
	RT31265	Mine Surveying– II	R1631264	Mine Surveying– II	0
	RT31022	Manegerial Economics &financial analysis	R1631265	Mining Machinery & Mechanization – I	0
	RT31266	Mine mechanization	R1631268	Mechanical Engineering Lab	0
	RT31267	Advanced English Communication Skills Lab	R1631266	Advanced English Communication Skills Lab	0
	RT31268	Mine Surveying Lab	R1631267	Mine Surveying Lab	90
	RT31016	IPR & Patents	R1631269	Mine Field visit(Mandatory)	
	RT31260	Mine Field visit(Mandatory)			
VI	1RT32261	Mine Systems Engineering	R1632261	Mine Systems Engineering	0
	1RT32262	Mineral Engineering and Fuel Technology	R1632262	Mineral Engineering and Fuel Technology	0
	1RT32263	Mine Environmental Engineering – II	R1632263	Mine Environmental Engineering – II	0
	1RT32264	Mining Machinery	R1632264	Mining Machinery & Mechanization – II	0
	1RT32265	Under Ground Metal Mining Technology	R1632035C	Industrial Robotics	0
	RT32266A	Rock Slope Engineering	R1632265B	Rock Excavation Engineering	100
	RT32266B	Mine Subsidence Engineering	R1632265A	Quality and Reliability Engineering	0

	RT32266C	Rock Fragmentation Engineering	R1632015D	Waste Water Management	100
VI	RT32267	Mineral Engineering Lab	R1632035A	Entrepreneurship	0
	RT32268	Environmental Engineering Lab	R1632267	Environmental Engineering Lab	30
	RT32269	Industrial Training (3-4weeks)	R1632268	Industrial Training	0
			R163226C	Mine Safety Engineering	0
			R1632268	Mine Planning & Design Lab	0
			R1632266	Mineral Engineering Lab	0
VII	RT41261	Mine Economics	RT41261	Mine Economics	0
	RT41262	Computer Applications in Mining	RT41262	Computer Applications in Mining	0
	RT41263	Rock Mechanics & Ground Control	RT41263	Rock Mechanics & Ground Control	0
	RT41264	Mine Legislation & General Safety	RT41264	Mine Legislation & General Safety	0
	RT41265	Industrial Robotics	RT41265	Industrial Robotics	0
	RT41266	Environmental Impact Assesment	RT41266	Environmental Impact Assesment	0
	RT41267	Numerical Methods	RT41267	Numerical Methods	0
	RT41268	Industrial Management	RT41268	Industrial Management	0
	RT4126L	Computer Applications in Mining Lab	RT4126L	Computer Applications in Mining Lab	0
	RT4126M	Rock Mechanics & Ground Control Lab	RT4126M	Rock Mechanics & Ground Control Lab	0
	RT4126N	Short Survey Camp (One Week)	RT4126N	Short Survey Camp (One Week)	0
VIII	RT42031	Production Planning and Control	RT42031	Production Planning and Control	0
	RT42262A	Deep Sea Mining	RT42262A	Deep Sea Mining	0
	RT42262B	Mine Construction	RT42262B	Mine Construction	0
	RT42262C	Tunneling Engineering	RT42262C	Tunneling Engineering	0
	RT42263A	Planning of Under Ground Metal Mining Project	RT42263A	Planning of Under Ground Metal Mining Project	0
	RT42263B	Planning of Under Ground Coal Mining Project	RT42263B	Planning of Under Ground Coal Mining Project	0
VIII	RT42263C	Planning of Surface Mining Projects	RT42263C	Planning of Surface Mining Projects	0
	RT42264A	Maintenance & Reliability Engineering	RT42264A	Maintenance & Reliability Engineering	0
	RT42264B	Rock Excavation Engineering	RT42264B	Rock Excavation Engineering	0
	RT42264C	Mine Health and Safety Engineering	RT42264C	Mine Health and Safety Engineering	0
	RT42265	Project	RT42265	Project	0

Program Coordinator

Head of the Department

Head of the Department
DEPARTMENT OF MINING ENGINEERING
ADITYA ENGINEERING COLLEGE

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Department of Management Studies

Programme Name: IMBA

	List of Courses for the Academic Year 2017-2018			List of Courses for the Academic Year 2018-2019		
Seme ster	Course Code	Course Name	Percen tage of content change d for existin g 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	Fundamental s of Business Organization	0
	175IM1T04	Financial Accounting – I	0	175IM1T04	Financial Accounting – I	0
	175IM1T05	Fundamentals of Computers	0	175IM1T05	Fundamental s 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 Communicatio ns	0	175IM2T10	Organization al Communicati ons	0
III	16IM301	Principles of	0	175IM3T11	Principles of	0

		Management			Management	
	16IM302	Cost Accounting	0	175IM3T12	Cost Accounting	0
	16IM303	Banking Theory & Practice	0	175IM3T13	Banking Theory & Practice	0
	16IM304	Business Law	0	175IM3T14	Business Law	0
	16IM305	Entrepreneurship Development	0	175IM3T15	Entrepreneurship Development	0
IV	16IM401	Organizational Behavior	0	175IM4T16	Organizational Behavior	0
	16IM402	Management Accounting	0	175IM4T17	Management Accounting	0
	16IM403	Company Law	0	175IM4T18	Company Law	0
	16IM404	Elements of Direct & Indirect Taxes	0	175IM4T19	Elements of Direct & Indirect Taxes	0
	16IM405	Management Information Systems	0	175IM4T20	Management Information Systems	0
V				16IM501	Financial Management	100
				16IM502	Marketing Management	100
				16IM503	Human Resource Management	100
				16IM504	Production and Operations Management	100
				16IM505	Research Methodology	100
VI				16IM601	Operations Research	100
				16IM602	International Business	100
				16IM603	Strategic Management	100
				16IM604	Decision Support Systems	100
				16IM605	Mini Project*	0

K. Shailaja
Program Coordinator

N. Vital
Head of the Department

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Department of Master of Computer Applications

	List Of Courses for the Academic Year 2017-2018		List Of Courses for the Academic Year 2018-2019		
Semester	Course Code	Course Name	Course Code	Course Name	Percentage of content changed for existing year
I	173MC1T01	C programming and data structures	173MC1T01	C PROGRAMMING AND DATA STRUCTURES	0
	173MC1T02	Computer organization	173MC1T02	COMPUTER ORGANIZATION	0
	173MC1T03	Discrete mathematical structures and graph theory	173MC1T03	DISCRETE MATHEMATICAL STRUCTURES AND GRAPH THEORY	0
	173MC1T04	Statistical programming with r	173MC1T04	STATISTICAL PROGRAMMING WITH R	0
	173MC1T05	Accounting and financial management	173MC1T05	ACCOUNTING AND FINANCIAL MANAGEMENT	0
	173MC1L01	English language communication skills lab	173MC1L01	ENGLISH LANGUAGE COMMUNICATION SKILLS LAB	0
	173MC1L02	C programming lab	173MC1L02	C PROGRAMMING LAB	0
	173MC1L03	Statistical programming with r lab	173MC1L03	STATISTICAL PROGRAMMING WITH R LAB	0
II	173MC1T06	OOPS THROUGH JAVA	173MC1T06	OOPS THROUGH JAVA	0
	173MC1T07	OPERATING SYSTEMS	173MC1T07	OPERATING SYSTEMS	0
	173MC1T08	SOFTWARE ENGINEERING	173MC1T08	SOFTWARE ENGINEERING	0
	173MC1T09	OPTIMIZATION TECHNIQUES	173MC1T09	OPTIMIZATION TECHNIQUES	0
	173MC1T10	COMPUTER GRAPHICS	173MC1T10	COMPUTER GRAPHICS .	0
	173MC1L04	OOPS THROUGH JAVA LAB	173MC1L04	OOPS THROUGH JAVA LAB	0
	173MC1L05	DATA STRUCTURES LAB	173MC1L05	DATA STRUCTURES LAB	0

	173MC1L06	OPERATING SYSTEM & COMPUTER GRAPHICS LAB	173MC1L06	OPERATING SYSTEM & COMPUTER GRAPHICS LAB	0
III	MC1631	DATA BASE MANAGEMENT SYSTEMS	173MC1T11	DATA BASE MANAGEMENT SYSTEMS	0
	MC1632	COMPUTER NETWORKS	173MC1T12	COMPUTER NETWORKS	0
	MC1633	UNIX PROGRAMMING	173MC1T13	UNIX PROGRAMMING	0
	MC1634	MANAGEMENT INFORMATION SYSTEM	173MC1T14	MANAGEMENT INFORMATION SYSTEM	0
	MC1635	DESIGN AND ANALYSIS OF ALGORITHMS	173MC1T15	DESIGN AND ANALYSIS OF ALGORITHMS	0
	MC1636	DATA BASE MANAGEMENT SYSTEMS LAB	173MC1L07	CLOUD COMPUTING	0
	MC1637	UNIX PROGRAMMING LAB	173MC1L08	UNIX PROGRAMMING LAB	0
	MC1638	COMPUTER NETWORKS LAB	173MC1L09	COMPUTER NETWORKS LAB	0
IV	MC1641	OBJECT ORIENTED ANALYSIS AND DESIGN	173MC1T16	OBJECT ORIENTED ANALYSIS AND DESIGN	0
	MC1642	ADVANCED JAVA & WEB TECHNOLOGIES	173MC1T17	ADVANCED JAVA & WEB TECHNOLOGIES	0
	MC1643	DATA WAREHOUSING AND MINING	173MC1T18	DATA WAREHOUSING AND MINING	0
	MC1644	MOBILE COMPUTING	173MC4E01	MOBILE COMPUTING	0
	MC1645	HUMAN COMPUTER INTERACTION	173MC4E02	HUMAN COMPUTER INTERACTION	0
	MC1646	CLOUD COMPUTING	173MC4E03	CLOUD COMPUTING	100
	MC1647	SOFTWARE PROJECT MANAGEMENT	173MC4E04	SOFTWARE PROJECT MANAGEMENT	0
	MC1648	ARTIFICIAL INTELLIGENCE	173MC4E05	ARTIFICIAL INTELLIGENCE	100
	MC1649	EMBEDDED SYSTEMS	173MC4E06	EMBEDDED SYSTEMS	0
	MC164A	ADVANCED JAVA & WEB TECHNOLOGIES LAB	173MC1L10	ADVANCED JAVA & WEB TECHNOLOGIES LAB	100
	MC164B	DATA WAREHOUSING AND MINING LAB	173MC1L11	DATA WAREHOUSING AND MINING LAB	0

	Code	Subject	Code	Subject	Marks
	MC164C	OBJECT ORIENTED ANALYSIS AND DESIGN LAB	173MC1L12	OBJECT ORIENTED ANALYSIS AND DESIGN LAB	0
V	MC1651	INFORMATION SECURITY	MC1651	BIG DATA ANALYTICS	100
	MC1652	NETWORK PROGRAMMING	MC1652	NETWORK PROGRAMMING	0
	MC1641	OBJECT ORIENTED ANALYSIS AND DESIGN (USING UML)	MC1653	PYTHON PROGRAMMING	100
	MC165D	ANIMATION & GAMING	MC1654	CYBER SECURITY	0
	MC1655	COMPUTER FORENSICS	MC1655	COMPUTER FORENSICS	0
	MC1656	E-COMMERCE	MC1656	E-COMMERCE	0
	MC1657	MIDDLE WARE TECHNOLOGIES	MC1657	INTERNET OF THINGS	0
	MC1658	MULTIMEDIA APPLICATION DEVELOPMENT	MC1658	MULTIMEDIA APPLICATION DEVELOPMENT	0
	MC1659	SOFTWARE PROJECT MANAGEMENT	MC1659	SOFTWARE TESTING METHODOLOGIES	0
	MC164C	UML LAB	MC165A	BIG DATA ANALYTICS LAB	100
	MC165B	NETWORK PROGRAMMING LAB	MC165B	NETWORK PROGRAMMING LAB	0
			MC165C	PYTHON PROGRAMMING LAB	100
VI	MC165D	PROJECT SEMINAR	MC165D	PROJECT SEMINAR	0
					0
		DISSERTATION/ THESIS	173MC6P01	DISSERTATION/ THESIS	0

T·satys

Program Coordinator

Beulah

Head of The Department
Head of the Department
Department of MCA
Aditya Engineering College