



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 2021-2022

S. No	Program Code	Program Name	Number of New Courses
1	1	B. Tech. (Civil Engineering)	13
2	2	B. Tech. (Electrical and Electronics Engineering)	11
3	3	B. Tech. (Mechanical Engineering)	15
4	4	B. Tech. (Electronics and Communication Engineering)	18
5	5	B. Tech. (Computer Science and Engineering)	9
6	12	B. Tech. (Information Technology)	6
7	27	B. Tech. (Petroleum Technology)	9
8	35	B. Tech. (Agricultural Engineering)	13
9	26	B. Tech. (Mining Engineering)	6
10	1F	Master of Computer Applications	11
B.Tech Common Courses			16
Total Number of New Courses			127


Convenor

Academic Committee


Principal

ADITYA ENGINEERING COLLEGE
SURAMPALAM - 533 437



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 for the Academic Year 2021-2022

S.No	Program Code	Program Name	Course Name	Course Code
1	01	B.Tech CE	Computer Aided Drafting Lab	201SC3L01
2	01	B.Tech CE	3D Modeling using Revit	201SC4L13
3	01	B.Tech CE	Subsurface Investigation and Instrumentation	191CE5E04
4	01	B.Tech CE	Airport Planning and Design	191CE5E01
5	01	B.Tech CE	Environmental Pollution and Control	191CE5E03
6	01	B.Tech CE	Basic Concrete Technology	191CE5O01
7	01	B.Tech CE	Railway Engineering	191CE6E09
8	01	B.Tech CE	Hydropower Development	191CE6E08
9	01	B.Tech CE	Expansive Soils	191CE6E12
10	01	B.Tech CE	Docks and Harbour Engineering	191CE6E11
11	01	B.Tech CE	Water Resources System Analysis	191CE6E15
12	01	B.Tech CE	Industrial Waste & Waste-Water Engineering	191CE6E14
13	01	B.Tech CE	Disaster Management	191CE6O02
14	02	B.Tech EEE	Design of Electrical Circuits using Engineering Software Tools	201SO3L02
15	02	B.Tech EEE	IoT Applications of Electrical Engineering	201SC4L14
16	02	B.Tech EEE	Electrical Measurements and Instrumentation	191EE5T12
17	02	B.Tech EEE	Electrical Materials	191EE5O02
18	02	B.Tech EEE	Basic Electrical Measurements	191EE5O03
19	02	B.Tech EEE	Advanced Power Electronics Converters	191EE6E05
20	02	B.Tech EEE	High Voltage Transmission	191EE6E11

S.No	Program Code	Program Name	Course Name	Course Code
21	02	B.Tech EEE	Switched mode power Converters	191EE6E12
22	02	B.Tech EEE	Control Systems Design	191EE6E09
23	02	B.Tech EEE	Electrical Safety	191EE6E10
24	02	B.Tech EEE	Electrical Measurements & Instrumentation Lab	191EE6L06
25	03	B.Tech ME	Java Programming Lab	201SC3L03
26	03	B.Tech ME	Python Programming Lab	201SC4L15
27	03	B.Tech ME	Composite Materials	191ME5E02
28	03	B.Tech ME	Organizational Behavior	191ME5E06
29	03	B.Tech ME	Renewable Energy Sources	191ME5O01
30	03	B.Tech ME	Fundamentals of Mechanical Engineering	191ME5O02
31	03	B.Tech ME	Supply Chain Management	191ME5O03
32	03	B.Tech ME	3D Printing	191ME5O04
33	03	B.Tech ME	Entrepreneurship Development and Incubation	191ME5O05
34	03	B.Tech ME	Alternative Fuels	191ME6E13
35	03	B.Tech ME	Lean Manufacturing	191ME6E16
36	03	B.Tech ME	Solar Energy Utilization	191ME6O06
37	03	B.Tech ME	Basic Thermodynamics and Heat Transfer	191ME6O07
38	03	B.Tech ME	Introduction to Hydraulics and Pneumatics	191ME6O08
39	03	B.Tech ME	Robotics	191ME6O09
40	04	B.Tech ECE	Signals and Systems Lab	201EC3L02
41	04	B.Tech ECE	Skill Oriented Course I:Python Programming	201SO3L04
42	04	B.Tech ECE	Skill Oriented Course-II: a)PCB Designing	201SC4L16
43	04	B.Tech ECE	Skill Oriented Course-II: b)Applications of Python Programming	201SC4L17

S.No	Program Code	Program Name	Course Name	Course Code
44	04	B.Tech ECE	Electromagnetic Interference & Compatibility	191EC5E03
45	04	B.Tech ECE	Digital System Design-I	191EC5E02
46	04	B.Tech ECE	Python Programming	191EC5E04
47	04	B.Tech ECE	Signals & Systems	191EC5001
48	04	B.Tech ECE	Digital Electronics and Logic Design	191EC5002
49	04	B.Tech ECE	Semi conductor devices	191EC5003
50	04	B.Tech ECE	Digital System Design-II	191EC6E05
51	04	B.Tech ECE	Soft Computing Techniques	191EC6E08
52	04	B.Tech ECE	Embedded C	191EC6E10
53	04	B.Tech ECE	Design for Testability	191EC6E09
54	04	B.Tech ECE	Signal Transform Techniques	191EC6E12
55	04	B.Tech ECE	Biomedical Instrumentation	191EC6O04
56	04	B.Tech ECE	ECAD Tools	191EC6O05
57	04	B.Tech ECE	Internet of Things Lab	191EC6L07
58	05	B.Tech CSE	Object Oriented Programming through C++ Lab	201CS3L01
59	05	B.Tech CSE	Skill Oriented Course-I 1. Applications of python-numpy	201SO3L05
60	05	B.Tech CSE	Skill Oriented Course-I 2. Web application development using full stack frontend	201SO3L06
61	05	B.Tech CSE	Skill Oriented Course-II Applications of python-pandas	201SC4L18
62	05	B.Tech CSE	Web Application development using full stack frontend development - Module-II	201SC4L19
63	05	B.Tech CSE	Data Structures	191CS5O01
64	05	B.Tech CSE	Object Oriented Programming through C++	191CS5O02
65	05	B.Tech CSE	Java Programming	191CS5O03
66	05	B.Tech CSE	R Programming	191CS5O04

S.No	Program Code	Program Name	Course Name	Course Code
67	12	B.Tech IT	Skill Oriented Course-I 1. Applications of Python NumPy	201SO3L05
68	12	B.Tech IT	Skill Oriented Course-I Web application development using full-stack frontend development – module –I	201SO3L06
69	12	B.Tech IT	Skill Oriented Course II 1. Applications of python-pandas	201SC4L18
70	12	B.Tech IT	Skill Oriented Course II 2. Web application development using full-stack frontend development	201SC4L19
71	12	B.Tech IT	AI Tools & Techniques	191IT6O04
72	12	B.Tech IT	Robotic Process Automation	191IT6O05
73	27	B.Tech PT	Industry Exploration Project	201SC3L10
74	27	B.Tech PT	Natural Gas Engineering and Processing	191PT5E01
75	27	B.Tech PT	Fundamentals of Petroleum Industry	191PT5O02
76	27	B.Tech PT	Operational and Maintenance of Pipelines	191PT6E05
77	27	B.Tech PT	Unconventional Hydrocarbon Resources	191PT7E09
78	27	B.Tech PT	Process Intensification in Petroleum Industry	191PT5O01
79	27	B.Tech PT	Advanced Separation Techniques	191PT6E07
80	27	B.Tech PT	Unconventional Hydrocarbon Resources	191PT6O03
81	27	B.Tech PT	Asset Management	191PT6O04
82	35	B.Tech Ag.E	Thermodynamics, Refrigeration and Air Conditioning Lab	201AG3L03
83	35	B.Tech Ag.E	1) Computer Aided Manufacturing	201SO3L10
84	35	B.Tech Ag.E	2) Computer Aided Design using SolidWorks	201SO3L11
85	35	B.Tech Ag.E	Soil Mechanics	201ES4T21
86	35	B.Tech Ag.E	Entrepreneurship Development and Business Management	201HS4T07
87	35	B.Tech Ag.E	1) Analysis/Simulation using MATLAB	201SC4L22
88	35	B.Tech Ag.E	2) Food Quality and Control	201SC4L23
89	35	B.Tech Ag.E	Basic Crop Production Practices	191AG5O01

S.No	Program Code	Program Name	Course Name	Course Code
90	35	B.Tech Ag.E	Soil Mechanics Lab	191AG5L07
91	35	B.Tech Ag.E	Theory and Design of Agricultural Machine LAB	191AG5L08
92	35	B.Tech Ag.E	Weather Forecast in Agriculture	191AG6O02
93	35	B.Tech Ag.E	Bio-Energy Systems Design and Applications	191AG6O03
94	35	B.Tech Ag.E	Irrigation and Drainage Engineering LAB	191AG6L10
95	26	B.Tech Min.E	Skill Oriented Course-II Data Analytics for Mining using Python	201SC4L20
96	26	B.Tech Min.E	Sustainable Mining	191MI5E04
97	26	B.Tech Min.E	Overview of Mining	191MI5O01
98	26	B.Tech Min.E	Environmental Management in Mines	191MI6T15
99	26	B.Tech Min.E	Green Mining	191MI6E05
100	26	B.Tech Min.E	Electrical equipment's in Mine	191MI6O03
101	01, 02, 03, 04, 05, 12, 26, 27, 35	All B.Tech Programs	Socially Relevant Project	191PR5P02
102	05, 12	CSE, IT	Object Oriented Programming through C++	201CS3T02
103	05, 12	CSE, IT	Unix and Shell Programming Lab	201CS3L03
104	05, 12	CSE, IT	Java Programming Lab	201CS4L05
105	05, 12	CSE, IT	R Programming Lab	201CS4L06
106	05, 12	CSE, IT	Functional and Logic Programming	191CS5E04
107	05, 12	CSE, IT	Artificial Intelligence	191CS5E02
108	05, 12	CSE, IT	Software Requirement and Estimation	191CS5E05
109	05, 12	CSE, IT	Operating Systems and Computer Networks Lab	191CS5L04
110	05, 12	CSE, IT	Data Mining and Object-Oriented Analysis and Design Lab	191CS6L06

S.No	Program Code	Program Name	Course Name	Course Code
111	05, 12	CSE, IT	Object Oriented Analysis and Design	191CS6T13
112	05, 12	CSE, IT	Scripting languages	191CS6E09
113	05, 12	CSE, IT	Advance Operating Systems	191CS6E06
114	05, 12	CSE, IT	C# .Net	191CS6E11
115	05, 12	CSE, IT	Distributed Systems	191CS6E13
116	05, 12	CSE, IT	Natural Language Processing	191CS6E14
117	1F	MCA	IoT Lab	203MC3L08
118	1F	MCA	Internship / Industry Oriented Mini Project/ Skill Development Course	203MC3P02
119	1F	MCA	Soft Computing	203MC3E06
120	1F	MCA	Deep Learning	203MC4E13
121	1F	MCA	Block Chain technologies	203MC4E16
122	1F	MCA	Big Data Analytics	193MC5T20
123	1F	MCA	Machine Learning	193MC5T21
124	1F	MCA	Digital Marketing	193MC5E07
125	1F	MCA	Natural Language Processing	193MC5E08
126	1F	MCA	DevOps	193MC5E11
127	1F	MCA	Machine Learning with Python Lab	193MC5L15


Convenor
Academic Committee


Principal
PRINCIPAL
ADITYA ENGINEERING COLLEGE
SURAMPALEM - 533 437



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

Program Name: B.Tech Civil Engineering

Comparison of new courses introduced in Academic year 2021-2022

List of Courses for the Academic Year 2020-2021			List of Courses for the Academic Year 2021-2022			
Semester	Course Code	Course Name	Semester	Course Code	Course Name	Percentage of content changed for existing year
I	201HS1T01	Communicative English	I	201HS1T01	Communicative English	0
	201BS1T01	Differential equations and Linear algebra		201BS1T01	Differential equations and Linear algebra	0
	201BS1T02	Engineering Physics		201BS1T03	Engineering Physics	0
	201ES1T01	Building Materials & Construction		201ES1T02	Building Materials & Construction	0
	201ES1T05	Engineering Graphics		201ES1I01	Engineering Graphics	0
	201HS1L01	Communicative English Lab		201HS1L01	Communicative English Lab	0
	201BS1L01	Engineering Physics Lab		201BS1L02	Engineering Physics Lab	0
	201ES1L01	Engineering Workshop		201ES1L02	Engineering Workshop	0
	201MC1T01	Environmental Science		201MC1T01	Environmental Science	0
II	201BS2T05	Partial Differential Equations and Vector Calculus	II	201BS2T05	Partial Differential Equations and Vector Calculus	0
	201BS2T06	Chemistry of Materials		201BS2T06	Chemistry of Materials	0
	201ES2T07	Engineering Mechanics		201ES2T07	Engineering Mechanics	0
	201ES2T09	Programming for Problem Solving Using C		201ES2T09	Programming for Problem Solving Using C	0
	201ES2T13	Surveying		201ES2T13	Surveying	0
	201ES2L06	Surveying field Work		201ES2L06	Surveying field Work	0
	201ES2L09	Engineering Chemistry Lab		201ES2L09	Engineering Chemistry Lab	0
	201ES2L11	Programming for Problem Solving Using C Lab		201ES2L11	Programming for Problem Solving Using C Lab	0
	201MC2L01	Professional communications skills Lab		201MC2L01	Professional communications skills Lab	0
	201MC2T02	Constitution of India		201MC2T02	Constitution of India	0
III	191BS3T11	Integral transforms and applications of Partial Differential Equations	III	201BS3T12	Integral transforms and applications of Partial Differential Equations	0
	191ES3T10	Internet of things (IOT)		201CE3T01	Strength of Materials-I	0
	191HS3T02	Managerial economics and Financial analysis		201CE3T02	Fluid Mechanics	0
	191CE3T01	Strength of materials - I		201CE3T03	Structural Analysis	0
	191CE3T02	Fluid mechanics		201CE3T04	Concrete Technology	0
	191CE3T03	Surveying		201CE3L01	Building Planning & Drawing Lab	0
	191CE3L01	Surveying lab		201CE3L02	Concrete Technology Lab	0
	191CE3T04	Computer aided civil engineering drawing		201CE3L03	Strength of Materials Lab	0
	191CE3L02	Strength of materials lab		201SC3L01	CAD Lab	100
	191MC3A03	Employability Skills - I		201MC3T03	Biology for Engineers	0
	191MC3A04	Essence of Indian Traditional Knowledge		201BS4T15	Numerical Methods and Statistical Techniques	0
IV	191BS4T16	Numerical methods & Statistical Techniques (CE, ME, Ag, E)	IV	201CE4T05	Engineering Geology	0
	191HS4T03	Management science		201CE4T06	Strength of Materials-II	0
	191CE4T05	Structural analysis		201CE4T07	Hydraulics & Hydraulic Machinery	0
	191CE4T06	Construction materials and concrete technology		201HS4T02	Management Science	0
	191CE4T07	Strength of materials - II		201CE4T08	Soil Mechanics	0
	191CE4T08	Hydraulics and hydraulic machinery		201CE4L04	Engineering Geology Lab	0
	191CE4L03	Fluid mechanics & hydraulic Machinery lab		201CE4L05	FM & HM Lab	0
	191CE4L04	Construction materials and concrete technology lab		201SC4L13	3D Modeling using Revit	100
	191MC4A05	Employability Skills - II		201MC4T04	Essence of Indian Traditional Knowledge	0

V	191MC4A06	Biology for Engineers	V	191CE5T09	Irrigation & water resource Engineering	33
	171HS5T05	Management Science		191CE5T10	Engineering geology	0
	171CE5T10	Design and Drawing of Reinforced Concrete Structures		191CE5T11	Design & drawing of Reinforced concrete structures	0
	171CE5T11	Transportation Engineering		191CE5T12	Geotechnical engineering	0
	171CE5T12	Structural Analysis - II		191CE5E02	PE I Construction Technology & Management	50
	171CE5T13	Water Resource Engineering - I		191CE5E04	Subsurface Investigation and Instrumentation	100
	171CE5E01	(PE I) Construction Technology and Management		191CE5E01	Airport Planning and Design	100
	171CE5E02	Urban Hydrology		191CE5E05	Urban Hydrology	17
	171CE5E03	Traffic Engineering		191CE5E03	Environmental Pollution and Control	100
	171HS5T06	Employability Skills - III		191CE5O01	OE I Basic Concrete Technology	100
	171CE5L04	Engineering Geology Lab		191CE5L05	Engineering geology lab	0
	171CE5L05	Transportation Engineering Lab		191CE5L06	Geotechnical engineering lab	0
	171CE5S01	MOOCs - I		191HS5T06	Employability Skills - III	0
VI	171CE5P03	Surveying Camp		191PR5P02	Socially Relevant Project	100
	171CE6T14	Design and Drawing of Steel Structures	VI	191MC5A07	Survey camp	0
	171CE6T15	Geotechnical Engineering - I		191CE6T13	Design & drawing of steel Structures	0
	171CE6T16	Water Resource Engineering - II		191CE6T14	Highway engineering	0
	171CE6T17	Prestressed Concrete		191CE6T15	Foundation engineering	0
	171CE6E04	PE II Ground Water Development		191CE6E10	PE-II Repair and Rehabilitation of Structures	0
	171CE6E05	Pavement Analysis and Design		191CE6E07	Ground Improvement Techniques	0
	171CE6E06	Repair and Rehabilitation of Structures		191CE6E09	Railway Engineering	100
	171CE6E07	PE III Ground Improvement Techniques		191CE6E08	Hydropower Development	100
	171CE6E08	Finite Element Methods		191CE6E06	Air Pollution Engineering	0
	171CE6E09	Earthquake Resistant Design		191CE6E13	PE -III Finite Element Methods	0
	171HS6T07	Employability Skills - IV		191CE6E12	Expansive Soils	100
	171CE6L06	Geotechnical Engineering Lab		191CE6E11	Docks and Harbour Engineering	100
	171CE6L07	Irrigation Design and Drawing		191CE6E15	Water Resources System Analysis	100
VII	171CE6S02	MOOCs - II		191CE6E14	Industrial Waste & Waste-Water Engineering	100
	171CE7T18	Geotechnical Engineering - II	VII	191EE6O04	OE II Disaster Management	100
	171CE7T19	Environmental Engineering		191CE6L07	Transportation engineering lab	0
	171CE7T20	Remote Sensing and GIS Applications		191CE6L08	Computer aided design lab	0
	171CE7T21	Estimation, Specifications and Contracts		191CE6L09	Irrigation design & drawing	0
	171CE7E10	PE IV Advanced Structural Engineering		191HS6T07	Employability skills - IV	0
	171CE7E11	Watershed Management		171CE7T18	Geotechnical Engineering - II	0
	171CE7E12	Design of Tall Buildings		171CE7T19	Environmental Engineering	0
	171CE7E13	PE V Bridge Engineering		171CE7T20	Remote Sensing and GIS Applications	0
	171CE7E14	Environmental Impact Assessment and Management		171CE7T21	Estimation, Specifications and Contracts	0
	171CE7E15	Water Resources Systems Planning		171CE7E10	PE IV Advanced Structural Engineering	0
	171CE7L08	Environmental Engineering Lab		171CE7E11	Watershed Management	0
	171CE7L09	GIS And Computer Aided Design (CAD) Lab		171CE7E12	Design of Tall Buildings	0
VIII	171CE7P01	Industry Oriented (Internship) Minor Project		171CE7E13	PE V Bridge Engineering	0
	171CE8E16	PE VI Urban Transportation Planning Engineering	VIII	171CE7E14	Environmental Impact Assessment and Management	0
	171CE8E17	Soil Dynamics and Foundations		171CE7E15	Water Resources Systems Planning	0
	171CE8E18	Solid And Hazardous Waste Management		171CE7L08	Environmental Engineering Lab	0
	171CE8E19	Air Pollution and Control		171CE7L09	GIS And Computer Aided Design (CAD) Lab	0
	171CE8O01	OE Electronic Instrumentation		171CE7P01	Industry Oriented (Internship) Minor Project	0
	171CE8O02	Database Management Systems		171CE8E16	PE VI Urban Transportation Planning Engineering	0
	171CE8O03	Alternative Energy Sources		171CE8E17	Soil Dynamics and Foundations	0

	171CE8004	Waste Water Management
	171CE8005	Fundamentals of Liquefied Natural Gas
	171CE8006	Green Fuel Technologies
	171CE8007	Green Engineering Systems
	171CE8P02	Major Project

VIII

171CE8E18	Solid And Hazardous Waste Management	0
171CE8E19	Air Pollution and Control	0
171CE8001	OE Electronic Instrumentation	0
171CE8002	Database Management Systems	0
171CE8003	Alternative Energy Sources	0
171CE8004	Waste Water Management	0
171CE8005	Fundamentals of Liquefied Natural Gas	0
171CE8006	Green Fuel Technologies	0
171CE8007	Green Engineering Systems	0
171CE8P02	Major Project	0


Program coordinator


Head of the Department

Head of the Department
Dept. of Civil Engineering
ADITYA ENGINEERING COLLEGE



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

Department of Electrical and Electronics Engineering

List of Courses for the Academic Year 2020-21

Semester	Course Code	Course Name
I	201HS1T01	Communicative English
	201BS1T01	Differential equations and Linear algebra
	201BS1T03	Applied Physics
	201ES1T02	Programming for Problem Solving using C
	201ES1I01	Engineering Graphics and Design
	201HS1L01	Communicative English Lab
	201BS1L02	Applied Physics Lab
	201ES1L02	Programming for Problem Solving using C Lab
	201MC1T01	Environmental Science
II	201BS2T05	Partial Differential Equations and Vector Calculus
	201BS2T06	Transform Techniques
	201ES2T07	Data Structures through C
	201ES2T09	Basic Electrical Circuits
	201ES2T13	Basic Civil and Mechanical Engineering
	201ES2L06	Data Structures through C Lab
	201ES2L09	Electrical Engineering Workshop
	201ES2L11	Basic Civil and Mechanical Engineering Lab
	201MC2L01	Professional Communications Skills Lab
	201MC2T02	Constitution of India
III	191BS3T12	Transform Techniques
	191EE3T02	Analog Electronic Circuits
	191ES3T11	Python programming
	191EE3T03	Electrical Circuit Analysis-II
	191EE3T04	Electrical Machines-I
	191EE3T05	Electromagnetic Fields
	191EE3L01	Electrical Circuits Lab
	191ES3L15	Python programming Lab

List of Courses for the Academic Year 2021-22

Course Code	Course Name	Percentage of content changed for existing year
201HS1T01	Communicative English	0
201BS1T01	Differential equations and Linear algebra	0
201BS1T03	Applied Physics	0
201ES1T02	Programming for Problem Solving using C	0
201ES1I01	Engineering Graphics and Design	0
201HS1L01	Communicative English Lab	0
201BS1L02	Applied Physics Lab	0
201ES1L02	Programming for Problem Solving using C Lab	0
201MC1T01	Environmental Science	0
201BS2T05	Partial Differential Equations and Vector Calculus	0
201BS2T06	Transform Techniques	0
201ES2T07	Data Structures through C	0
201ES2T09	Basic Electrical Circuits	0
201ES2T13	Basic Civil and Mechanical Engineering	0
201ES2L06	Data Structures through C Lab	0
201ES2L09	Electrical Engineering Workshop	0
201ES2L11	Basic Civil and Mechanical Engineering Lab	0
201MC2L01	Professional Communications Skills Lab	0
201MC2T02	Constitution of India	0
201BS3T11	Numerical methods & Complex variables	0
201EE3T01	Analog Electronic Circuits	30
201EE3T02	Electrical Circuit Analysis	0
201EE3T03	DC Machines and transformers	20
201EE3T04	Electromagnetic Fields	0
201EE3L01	DC machines and transformers Lab	20
201EE3L02	Electrical Circuits Lab	10
201EE3L03	Analog Electronic Circuits Lab	0

IV	191MC3A03	Employability Skills-I	201SO3L02	Design of Electrical Circuits using Engineering Software Tools	100
	191MC3A04	Essence of Indian Traditional Knowledge	201MC3T03	Biology For Engineers	0
	191BS4T17	Numerical methods & Complex Variables	201EE4T05	Electrical Power Generation and Distribution Systems	0
	191EE4T06	Digital Circuits & Logic Design	201EE4T06	Digital Electronics	5
	191EE4T07	Electrical Machines-II	201EE4T07	Induction and Synchronous Machines	5
	191EE4T08	Control Systems	201HS4T03	Managerial Economics and Financial Analysis	0
	191EE4T09	Power Systems-I	201ES4T18	Python Programming	0
	191ES4T15	Internet of Things	201ES4L15	Python Programming Lab	0
	191EE4L02	Electrical Machines –I Lab	201EE4L04	Induction and Synchronous Machines Lab	0
	191EE4L03	Analog Electronic Circuits Lab	201EE4L05	Digital Electronics lab	0
	191MC4A05	Employability Skills –II	201SC4L14	IoT Applications of Electrical Engineering	100
	191MC4A06	Biology for Engineers	201MC4T04	Essence of Indian Traditional Knowledge	0
V	171EE5T10	Power Systems – II	191EE5T10	Power Systems –II	0
	171EE5T11	Power Electronics	191EE5T11	Power Electronics	5
	171EE5T12	Pulse and Digital Circuits	191EE5T12	Electrical Measurements and Instrumentation	100
	171EE5T13	Signals and Systems	191HS5T05	Managerial Economics and Financial Analysis	0
	171EE5E01	Renewable Energy Sources	191EE5E03	Renewable energy systems	15
	171EE5E02	Modeling and Analysis of Electrical Machines	191EE5E02	Electrical Machine Modeling and Analysis	0
	171EE5E03	Electrical Safety	191EE5E01	Advanced Control Systems	0
	171HS5T08	Intellectual Property Rights and Patents	191EE5E03	Renewable energy systems	15
	171HS5T06	Employability Skills - III	191EE5O01	Electrical Safety	0
	171EE5L04	Electrical Measurements Lab	191EE5O02	Electrical Materials	100
	171EE5L05	Electrical Machines - II Lab	191EE5O03	Basic Electrical Measurements	100
	171EE5L06	Control Systems Lab	191PR5P02	Socially Relevant Project	100
	171EE6T14	Power Electronic Controllers and Drives	191EE6T13	Microprocessor & Interfacing	35
	171EE6T15	Power System Analysis	191EE6T14	Power System Analysis	0
	171EE6T16	Micro Processor and Micro Controllers	191EE6T15	Power Converter Drives	5
	171EE6T17	Data Structures	191EE6E07	Electrical Distribution Systems	5
	171EE6E04	Computer Architecture	191EE6E05	Advanced Power Electronics Converters	100
	171EE6E05	Electrical Distribution Systems	191EE6E06	Digital Control Systems	0
	171EE6E06	Distributed Generation and Microgrid	191EE6E08	Energy Audit, Conservation & Management	0

VI

171EE6E07	Advanced Control Systems
171EE6E08	PLC and Applications
171EE6E09	Instrumentation
171EE6E10	OOPs through JAVA
171HS6T07	Employability Skills - IV
171EE6L07	Data Structures Lab
171EE6L08	Power Electronics Lab
171EE6S02	MOOCs - II

191EE6E11	High Voltage Transmission	100
191EE6E12	Switched mode power Converters	100
191EE6E09	Control Systems Design	100
191EE6E10	Electrical Safety	100
191EE6O04	Energy Audit and Conservation Management	0
191EE6O05	Non-Conventional Energy Sources	0
191EE6O06	Instrumentation	0
191EE6L06	Electrical Measurements & Instrumentation Lab	100
191EE6L07	Power Electronics Lab	0
191HS6T07	Employability Skills -IV	0
191MC6A09	Professional Ethics and Human Values	0
		0

VII

171EE7T18	Utilization of Electrical Energy
171EE7T19	Linear and Digital IC Applications
171EE7T20	Power System Operation and Control
171EE7T21	Switch Gear and Protection
171EE7E11	Optimization Techniques
171EE7E12	Digital Signal Processing
171EE7E13	Special Electrical Machines
171EE7E14	High Voltage Engineering
171EE7E15	Electric Power Quality
171EE7E16	EHVAC Transmission
171EE7L09	Power Systems Simulation Lab
171EE7L10	Micro Processor and Micro Controllers Lab
171EE7P01	Industry Oriented (Internship) Minor Project

171EE7T18	Utilization of Electrical Energy	0
171EE7T19	Linear and Digital IC Applications	0
171EE7T20	Power System Operation and Control	0
171EE7T21	Switch Gear and Protection	0
171EE7E11	Optimization Techniques	0
171EE7E12	Digital Signal Processing	0
171EE7E13	Special Electrical Machines	0
171EE7E14	High Voltage Engineering	0
171EE7E15	Electric Power Quality	0
171EE7E16	EHVAC Transmission	0
171EE7L09	Power Systems Simulation Lab	0
171EE7L10	Micro Processor and Micro Controllers Lab	0
171EE7P01	Industry Oriented (Internship) Minor Project	0

VIII

171EE8E17	HVDC Transmission
171EE8E18	Flexible AC Transmission Systems
171EE8E19	Power System Reforms
171EE8E20	Digital Control Systems
171EE8O01	Energy Audit, Conservation and Management
171EE8O02	VLSI Design
171EE8O03	Unix and Shell Programming

171EE8E17	HVDC Transmission	0
171EE8E18	Flexible AC Transmission Systems	0
171EE8E19	Power System Reforms	0
171EE8E20	Digital Control Systems	0
171EE8O01	Energy Audit, Conservation and Management	0
171EE8O02	VLSI Design	0
171EE8O03	Unix and Shell Programming	0

171EE8O04	Neural Networks And Fuzzy Logic	171EE8O04	Neural Networks And Fuzzy Logic	0
171EE8O05	Robotics	171EE8O05	Robotics	0
171EE8O06	Vehicular Electric Power Systems	171EE8O06	Vehicular Electric Power Systems	0
171EE8O07	Internet of Things	171EE8O07	Internet of Things	0
171EE8O08	Cyber Security	171EE8O08	Cyber Security	0
171EE8P02	Major Project	171EE8P02	Major Project	0

AN

Program Coordinator

CS

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



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

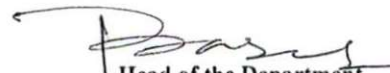
Department of Mechanical Engineering

List of Courses for the Academic Year 2020-21			List of Courses for the Academic Year 2021-22		
Semester	Course Code	Course Name	Course Code	Course Name	Percentage of content changed for existing year
I	201HS1T01	Communicative English	201HS1T01	Communicative English	0
	201BS1T01	Differential Equations and Linear Algebra	201BS1T01	Differential Equations and Linear Algebra	0
	201BS1T02	Engineering Physics	201BS1T02	Engineering Physics	0
	201ES1T03	Essential Electrical and Electronics Engineering	201ES1T03	Essential Electrical and Electronics Engineering	0
	201ES1T05	Engineering Graphics	201ES1T05	Engineering Graphics	0
	201HS1L01	Communicative English Lab	201HS1L01	Communicative English Lab	0
	201BS1L01	Engineering Physics Lab	201BS1L01	Engineering Physics Lab	0
	201ES1L03	Essential Electrical and Electronics Engineering Lab	201ES1L03	Essential Electrical and Electronics Engineering Lab	0
	201MC1T01	Environment Science	201MC1T01	Environment Science	0
II	201BS2T05	Partial Differential Equations and Vector Calculus	201BS2T05	Partial Differential Equations and Vector Calculus	0
	201BS2T08	Chemistry of Materials	201BS2T08	Chemistry of Materials	0
	201ES2T06	Engineering Mechanics	201ES2T06	Engineering Mechanics	0
	201ES2T08	Programming for Problem Solving using C	201ES2T08	Programming for Problem Solving using C	0
	201ES2L07	Engineering Workshop	201ES2L07	Engineering Workshop	0
	201ES2L12	Computer Aided Drafting Lab	201ES2L12	Computer Aided Drafting Lab	0
	201HS2L02	Professional Communications Skills Lab	201HS2L02	Professional Communications Skills Lab	0
	201BS2L05	Engineering Chemistry Lab	201BS2L05	Engineering Chemistry Lab	0
	201ES2L10	Programming for Problem Solving using C Lab	201ES2L10	Programming for Problem Solving using C Lab	0
III	191BS3T11	Integral Transforms and Applications of Partial Differential Equations	201BS3T12	Integral Transforms and Applications of partial differential equations	0
	191ME3T01	Fluid Mechanics & Hydraulic Machinery	201ME3T01	Production Technology	0
	191ME3T02	Computer Aided Engineering Drawing Practice	201ME3T02	Fluid Mechanics & Hydraulic Machines	0
	191ME3T03	Mechanics of Solids	201ES3T15	Thermodynamics	0
	191ME3T04	Thermodynamics	201ES3T16	Metallurgy & Material Science	5
	191ME3T05	Metallurgy & Material Science	201ME3T01	Computer Aided Machine Drawing Lab	10
	191ME3L01	Fluid Mechanics & Hydraulic Machines Lab	201ME3L01	Production Technology Lab	0
	191ME3L02	Mechanics of Solids & Metallurgy Lab	201ME3L02	Fluid Mechanics & Hydraulic Machines Lab	0
	191MC3A03	Employability skills-I	201SC3L03	Skill oriented Course-I (Java Programming Lab)	100
IV	191MC3A04	Essence of Indian Traditional Knowledge	201MC3T03	Biology For Engineers	0
	191BS4T16	Numerical Methods & Statistical Techniques	201BS4T15	Numerical methods & Statistical Techniques	0
	191HS4T04	Managerial Economics and Financial Analysis	201HS4T04	Industrial Engineering and Management	0
	191ES4T15	Internet of Things	201ME4T03	Mechanics of Solids	0
	191ME4T06	Production Technology	201ME4T04	Theory of Machines-I	20
	191ME4T07	Kinematics of Machinery	201ME4T05	Thermal Engineering-I	15
	191ME4T08	Thermal Engineering-I	201ME4L04	Theory of Machines Lab	6
	191ME4L03	Production Technology Lab	201ME4L05	Mechanics of Solids & Metallurgy Lab	0
	191ME4L04	Computer Aided Machine Drawing	201ME4L06	Thermal Engineering Lab	6
	191MC4A05	Employability Skills -II	201SC4L15	Python Programming Lab	100
	191MC4A06	Biology for Engineers	201MC4T04	Essence of Indian Traditional Knowledge	0
	171ME5T08	Dynamics of Machinery	191ME5T09	Dynamics of Machinery	6
	171ME5T09	Metal Cutting and Machine Tools	191ME5T10	Design of Machine members-I	0
			191ME5T11	Thermal Engineering -II	0
			191ME5E01	Automobile Engineering	0

V	171ME5T10	Thermal Engineering -II	191ME5E02	Composite Materials	100
	171ME5T11	Design of Machine members-II	191ME5E03	Fluid Engineering	40
	171ME5T12	Operations Research	191ME5E04	Mechanical Vibrations	25
	171ME5E01	Automobile Engineering	191ME5E05	Metrology & Instrumentation	0
	171ME5E02	Mechanical Vibrations	191ME5E06	Organizational Behavior	100
	171HS5E03	Additive Manufacturing	191ME5O01	Renewable Energy Sources	100
	171ME5L02	Theory of Machines Lab	191ME5O02	Fundamentals of Mechanical Engineering	100
	171ME5L03	Thermal Engineering Lab	191ME5O03	Supply Chain Management	100
	171ME5S01	MOOCS-I	191ME5O04	3D Printing	100
			191ME5O05/191ME6O12	Entrepreneurship Development and Incubation	100
VI	171ME6T13	Heat Transfer	191ME5L05	Metrology/ICS Lab	0
	171ME6T14	Refrigeration and Air Conditioning	191ME5L06	Theory of Machines Lab	0
	171ME6T15	Metrology and Instrumentation	191ME5L07	Thermal Engineering Lab	0
	171ME6E04	Robotics	191HS5T06	Employability Skills -III	0
	171ME6E05	Design for Manufacturing	191PR5P02	Socially Relevant Project	100
	171ME6E06	Non Destructive Evaluation	191MC5A08	Intellectual Property Rights and Patents	0
	171ME6E07	Unconventional Machining Processes	191ME6T12	Heat Transfer	0
	171ME6E08	Industrial Hydraulics and Pneumatics	191ME6T13	Design of Machine members-II	0
	171ME6E09	Quality & Reliability Engineering	191ME6T14	Metal Cutting and Machine Tools	10
	171HS6T07	Employability Skills-IV	191ME6E07	Industrial Engineering and Management	0
	171ME6L04	Machine Tools Lab	191ME6E08	Mechatronics	20
	171ME6L05	Heat Transfer Lab	191ME6E09	Non Destructive Evaluation	0
	171ME6L06	Metrology & Instrumentation Lab	191ME6E10	Refrigeration and Air Conditioning	0
	171ME6S02	MOOCS-II	191ME6E11	Robotics	0
			191ME6E12	Additive Manufacturing	40
VII	171ME7T16	CAD/CAM	191ME6E13	Alternative Fuels	100
	171ME7T17	Mechatronics	191ME6E14	Design for Manufacturing	0
	171ME7T18	Finite Element Methods	191ME6E15	Green Engineering Systems	0
	171ME7T19	Power Plant Engineering	191ME6E16	Lean Manufacturing	100
	171ME7E10	Computational Fluid Dynamics	191ME6O06	Solar Energy Utilization	100
	171ME7E11	Green Engineering Systems	191ME6O07	Basic Thermodynamics and Heat Transfer	100
	171ME7E12	Nano Materials and Technology	191ME6O08	Introduction to hydraulics and pneumatics	100
	171ME7E13	Gas Dynamics	191ME6O09	3D Printing	0
	171ME7E14	Condition Monitoring	191ME6O10	Robotics	100
	171ME7E15	Flexible Manufacturing Systems	191ME6O11	Management Science	0
	171ME7L07	CAD/CFD Lab	191ME6L08	Machine Cutting and Machine Tools Lab	0
	171ME7L08	CAM/Mechatronics Lab	191ME6L09	Heat Transfer Lab	0
	171ME7P01	Industry Oriented (Internship) Mini Project	191HS6T07	Employability skills-IV	0
			191MC6A09	Professional Ethics and Human Values	0
			171ME7T16	CAD/CAM	0
	171ME8E16	Production Planning and Control	171ME7T17	Mechatronics	0
	171ME8E17	Advanced Materials	171ME7T18	Finite Element Methods	0
	171ME8E18	Thermal Equipment Design	171ME7T19	Power Plant Engineering	0
	171ME8O01	Java Programming	171ME7E10	Computational Fluid Dynamics	0
			171ME7E11	Green Engineering Systems	0

VIII	171ME8O02	Electrical Safety Management	171ME8O02	Electrical Safety Management	0
	171CE8O04	Neural Networks and Fuzzy Logic	171CE8O04	Neural Networks and Fuzzy Logic	0
	171EE8O03	Data Base Management Systems	171EE8O03	Data Base Management Systems	0
	171ME8O03	Entrepreneur Resource Planning	171ME8O03	Entrepreneur Resource Planning	0
	171ME8O04	Computer Graphics	171ME8O04	Computer Graphics	0
	171ME8P02	Major Project	171ME8P02	Major Project	0


Program Coordinator


Head of the Department

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



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

Department of Electronics and Communication Engineering

Programme Name : B.Tech ECE

List of Courses for the Academic Year 2020-2021			List of Courses for the Academic Year 2021-2022		
Semester	Course Code	Course Name	Course Code	Course Name	Percentage of content changed for existing year
I	201HS1T01	Communicative English	201HS1T01	Communicative English	0
	201BS1T01	Differential Equations and Linear Algebra	201BS1T01	Differential Equations and Linear Algebra	0
	201BS1T04	Engineering Chemistry	201BS1T04	Engineering Chemistry	0
	201ES1T02	Programming for Problem Solving using C	201ES1T02	Programming for Problem Solving using C	0
	201ES1I01	Engineering Graphics and Design	201ES1I01	Engineering Graphics and Design	0
	201HS1L01	Communicative English Lab	201HS1L01	Communicative English Lab	0
	201BS1L03	Engineering Chemistry Lab	201BS1L03	Engineering Chemistry Lab	0
	201ES1L02	Programming for Problem Solving using C Lab	201ES1L02	Programming for Problem Solving using C Lab	0
	201MC1T01	Environmental Science	201MC1T01	Environmental Science	0
II	201BS2T06	Transform Techniques	201BS2T06	Transform Techniques	0
	201BS2T09	Applied Physics	201BS2T09	Applied Physics	0
	201ES2I03	Object Oriented Programming through JAVA	201ES2I03	Object Oriented Programming through JAVA	0
	201ES2T10	Basic Electrical Engineering	201ES2T10	Basic Electrical Engineering	0
	201ES2T14	Network Analysis	201ES2T14	Network Analysis	0
	201ES2L08	Electronics Engineering Workshop	201ES2L08	Electronics Engineering Workshop	0
	201BS2L04	Applied Physics Lab	201BS2L04	Applied Physics Lab	0

List of Courses for the Academic Year 2020-2021			List of Courses for the Academic Year 2021-2022		
Semester	Course Code	Course Name	Course Code	Course Name	Percentage of content changed for existing year
	201ES2L13	Basic Electrical Engineering Lab	201ES2L13	Basic Electrical Engineering Lab	0
	201MC2L01	Professional Communication Skills Lab	201MC2L01	Professional Communication Skills Lab	0
	201MC2T02	Constitution of India	201MC2T02	Constitution of India	0
III	191BS3T13	Numerical Methods & Vector Calculus	201BS3T10	Numerical Methods & Vector Calculus	0
	191ES3T12	Random Variables and Stochastic Processes	201EC3T01	Electronic Devices and Circuits	0
	191HS3T02	Managerial Economics and Financial Analysis	201EC3T02	Signals and Systems	0
	191EC3T01	Electronic Devices and Circuits	201EC3T03	Digital Electronics and Logic Design	0
	191EC3T02	Digital Electronics and Logic Design	201EC3T04	Random Variables and Stochastic Processes	0
	191EC3T03	Signals and Systems	201EC3L01	Electronic Devices and Circuits Lab	0
	191EC3L01	Electronic Devices and Circuits Lab	201EC3L02	Signals and Systems Lab	100
	191ES3L16	Digital Electronics and Logic Design Lab	201EC3L03	Digital Electronics and Logic Design Lab	14.2
	191MC3A03	Employability Skills – I	201SO3L04	Skill Oriented Course-I:Python Programming	100
	191MC3A04	Essence of Indian Traditional Knowledge	201MC3T03	Biology for Engineers	0
IV	191ES4T16	Data Structures	201ES4T19	Linear Control Systems	0
	191ES4T17	Control Systems	201EC4T05	Electronic Circuit Analysis	0
	191EC4T04	Analog Electronic Circuits	201EC4T06	Integrated Circuits and Applications	0
	191EC4T05	Electromagnetic Waves and Transmission Lines	201EC4T07	Analog Communications	5
	191EC4T06	Microprocessors & Micro Controllers	201HS4T03	Managerial Economics and Financial Analysis	0
	191EC4T07	Analog Communications	201EC4L04	Electronic Circuit Analysis Lab	0

List of Courses for the Academic Year 2020-2021			List of Courses for the Academic Year 2021-2022		
Semester	Course Code	Course Name	Course Code	Course Name	Percentage of content changed for existing year
	191EC4L02	Analog Electronic Circuits – Lab	201EC4L05	Integrated Circuits and Applications Lab	7
	191EC4L03	Microprocessors & Micro Controllers Lab	201EC4L06	Analog Communications Lab	0
	191EC4L04	Analog Communications Lab	201SC4L16	Skill Oriented Course-II: a) PCB Designing	100
	191MC4A05	Employability Skills – II	201SC4L17	Skill Oriented Course-II: b) Applications of Python	100
	191MC4A06	Biology for Engineers	201MC4T04	Essence of Indian Traditional Knowledge	0
V	171EC5T09	Linear IC Applications	191EC5T08	Integrated Circuits and applications	0
	171EC5T10	Digital IC Applications	191EC5T09	Digital Communications	5
	171EC5T11	Digital Communications	191EC5T10	Antennas and Wave Propagation	5
	171EC5T12	Antennas and Wave Propagation	191EC5T11	Computer Networks	0
	171EC5E01	Computer Architecture and Organization	191EC5E03	Electromagnetic Interference & Compatibility	100
	171EC5E02	OOPS through JAVA	191EC5E01	Computer System Architecture	10
	171EC5E03	Electronic Switching Systems	191EC5E02	Digital System Design-I	100
	171HS5T06	Employability Skills - III	191EC5E04	Python Programming	100
	171EC5L04	Linear IC Applications Lab	191EC5001	Signals & Systems	100
	171EC5L05	Digital IC Applications Lab	191EC5002	Digital Electronics and Logic Design	100
			191EC5003	Semi conductor devices	100
	171EC5L06	Pulse and Digital Circuits Lab	191EC5L05	Integrated Circuits and Applications Lab	14.28
			191EC5L06	Digital Communications Lab	13.33
	171EC5S01	MOOCs - I	191HS5T06	Employability Skills – III	0
			191PR5P02	Socially Relevant Project	100

List of Courses for the Academic Year 2020-2021			List of Courses for the Academic Year 2021-2022		
Semester	Course Code	Course Name	Course Code	Course Name	Percentage of content changed for existing year
VI	171EC6T13	Micro Processors and MicroControllers	191EC6T12	Internet of Things	10
	171EC6T14	VLSI Design	191EC6T13	VLSI Design	10
	171EC6T15	Digital Signal Processing	191EC6T14	Digital Signal Processing	5
	171EC6E04	CPLD and FPGA Architectures	191EC6E07	Information Theory and Coding	0
	171EC6E05	Operating Systems	191EC6E06	Embedded Systems	0
	171EC6E06	Computer Networks	191EC6E05	Digital System Design-II	100
	171EC6E07	Digital Design Through Verilog	191EC6E08	Soft Computing Techniques	100
	171EC6E08	Biomedical Engineering	191EC6E11	Radar Systems	5
	171EC6E09	Information Theory and Coding	191EC6E10	Embedded C	100
	171HS6T07	Employability Skills - IV	191EC6E09	Design for Testability	100
	171EC6L07	Micro Processor and Micro Controllers Lab	191EC6E12	Signal Transform Techniques	100
	171EC6L08	VLSI lab	191EC6O04	Biomedical Instrumentation	100
	171EC6L09	Digital Communications Lab	191EC6O05	ECAD Tools	100
	171EC5S01	MOOCs - II	191EC6L08	VLSI Lab	50
			191EC6L07	Internet of Things Lab	100
			191HS6T07	Employability Skills – IV	0
	171EC7T16	Microwave Engineering	171EC7T16	Microwave Engineering	0
	171EC7T17	Digital Image Processing	171EC7T17	Digital Image Processing	0
	171EC7T18	Electronic Measurements And Instrumentation	171EC7T18	Electronic Measurements And Instrumentation	0
	171EC7T19	Optical Communications	171EC7T19	Optical Communications	0

List of Courses for the Academic Year 2020-2021			List of Courses for the Academic Year 2021-2022		
Semester	Course Code	Course Name	Course Code	Course Name	Percentage of content changed for existing year
VII	171EC7E10	Digital Signal Processors	171EC7E10	Digital Signal Processors	0
	171EC7E11	Embedded Systems	171EC7E11	Embedded Systems	0
	171EC7E12	Cellular and Mobile Communications	171EC7E12	Cellular and Mobile Communications	0
	171EC7E13	Analog IC Design	171EC7E13	Analog IC Design	0
	171EC7E14	Cryptography and Network Security	171EC7E14	Cryptography and Network Security	0
	171EC7E15	Radar Systems	171EC7E15	Radar Systems	0
	171EC7L10	Microwave Engineering and Optical Communications Lab	171EC7L10	Microwave Engineering and Optical Communications Lab	0
	171EC7L11	Digital Signal and Image Processing Lab	171EC7L11	Digital Signal and Image Processing Lab	0
	171EC7P01	Industry Oriented (Internship) Minor Project	171EC7P01	Industry Oriented (Internship) Minor Project	0
VIII	171EC8E16	Mixed Signal IC Design	171EC8E16	Mixed Signal IC Design	0
	171EC8E17	Wireless Sensors and Networks	171EC8E17	Wireless Sensors and Networks	0
	171EC8E18	Satellite Communications	171EC8E18	Satellite Communications	0
	171EC8O01	Basic Concrete Technology	171EC8O01	Basic Concrete Technology	0
	171EC8O02	Disaster Management	171EC8O02	Disaster Management	0
	171EC8O03	Neural Networks	171EC8O03	Neural Networks	0
	171EC8O04	Web Technologies	171EC8O04	Web Technologies	0
	171EC8P02	Major Project	171EC8P02	Major Project	0

A. Kaul
Program Coordinator

A. Seidms
Head of the Department
Department of Electronics and Communication Engineering
K. J. Somaiya Engineering College, Vashi



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

Program Name: B. Tech in Computer Science and Engineering

List of courses for the Academic Year 2020-2021			List of courses for the Academic Year 2021-2022		
Semester	Course Code	Course Name	Course Code	Course Name	% of content revised for the existing year
I	201HS1T01	Communicative English	201HS1T01	Communicative English	0
	201BS1T01	Differential Equations and Linear algebra	201BS1T01	Differential Equations and Linear algebra	0
	201BS1T04	Engineering Chemistry	201BS1T04	Engineering Chemistry	0
	201ES1T02	Programming for Problem Solving using C	201ES1T02	Programming for Problem Solving using C	0
	201ES1I02	Computer Engineering Workshop	201ES1I02	Computer Engineering Workshop	0
	201HS1L01	Communicative English Lab	201HS1L01	Communicative English Lab	0
	201BS1L03	Engineering Chemistry Lab	201BS1L03	Engineering Chemistry Lab	0
	201ES1L02	Programming for Problem Solving using C Lab	201ES1L02	Programming for Problem Solving using C Lab	0
	201MC1T01	Environmental Science	201MC1T01	Environmental Science	0
II	201BS2T07	Numerical Methods and Complex Variables	201BS2T07	Numerical Methods and Complex Variables	0
	201BS2T09	Applied Physics	201BS2T09	Applied Physics	0
	201ES2T11	Computer Organization	201ES2T11	Computer Organization	0
	201ES2T04	Python Programming	201ES2T04	Python Programming	0
	201ES2T07	Data Structures through C	201ES2T07	Data Structures through C	0
	201BS2L04	Applied Physics Lab	201BS2L04	Applied Physics Lab	0
	201ES2L06	Data Structures through C Lab	201ES2L06	Data Structures through C Lab	0
	201ES2L14	Python Programming Lab	201ES2L14	Python Programming Lab	0
	201MC2L01	Professional Communication Skills Lab	201MC2L01	Professional Communication Skills Lab	0
	201MC2T02	Constitution of India	201MC2T02	Constitution of India	0
III	191BS3T14	Discrete Mathematics	201CS3T01	Advanced Data Structures	50
	191ES3T13	Digital Logic Design	201CS3T02	Object Oriented Programming through C++	100
	191HS3T02	Managerial Economics and Financial Analysis	201CS3T03	Operating Systems	55
	191CS3T01	Software Engineering	201CS3T04	Software Engineering	25
	191CS3T02	Object Oriented Programming through Java	201BS3T13	Discrete Mathematics	0
	191CS3T03	Advanced Data Structures	201CS3L01	Object Oriented Programming through C++ Lab	100
	191CS3L01	Object Oriented Programming through Java Lab	201CS3L02	Operating Systems Lab	0
	191CS3L02	Advanced Data Structures Lab	201CS3L03	Unix and Shell Programming Lab	100

Semester	Course Code	Course Name	Course Code	Course Name	% of content revised for the existing year
	191MC3A03	Employability Skills - I	201SC3L05	Applications of python-numpy	100
	191MC3A04	Essence of Indian Traditional Knowledge	201SC3L06	web application development using full stack frontend development-module-I	100
IV	191BS4T18	Probability and Statistics	201MC3T03	Biology for Engineers	0
	191CS4T04	Formal Languages and Automata Theory	201BS4T16	Probability and statistics	0
	191CS4T05	Python Programming	201CS4T05	Formal Languages and Automata Theory	0
	191CS4T06	Design and Analysis of Algorithms	201CS4T06	Database Management Systems	0
	191ES4T15	Internet of Things	201CS4T07	Java programming	0
	191CS4T07	Computer Organization	201HS4T03	Managerial Economics and Financial Accountancy	0
	191CS4L03	Python Programming Lab	201CS4L04	Database Management Systems Lab	0
	191ES4L17	Internet of Things Lab	201CS4L05	Java Programming Lab	100
	191MC4A05	Employability Skills - II	201CS4L06	R Programming Lab	100
	191MC4A06	Biology for Engineers	201SC4L18	Applications of python- pandas	100
			201SC4L19	Web application development using full stack frontend development module-II	100
	171CS5T11	Compiler Design	201MC4T04	Essence of Indian Traditional Knowledge	0
	171CS5T12	Python Programming	191CS5T08	Compiler Design	0
	171CS5T13	Design & Analysis of Algorithms	191CS5T09	Computer Networks	0
	171CS5T14	Operating Systems	191CS5T10	Database Management Systems	0
	171CS5E01	Unix and Shell Programming	191CS5T11	Operating Systems	0
	171CS5E02	Advanced Computer Architecture	191CS5E04	Functional and Logic Programming	100
	171CS5E03	Computer Graphics	191CS5E01	Advanced Computer Architecture	0
	171CS5E04	Software Testing Methodologies	191CS5E02	Artificial Intelligence	100
			191CS5E05	Software Requirement and Estimation	100
			191CS5E03	Computer Graphics	0
			191CE5O01	Basic Concrete Technology	100
			191EE5O01	Electrical Safety	100
			191EE5O02	Electrical Materials	100
			191EE5O03	Basic Electrical Measurements	100
			191ME5O01	Renewable Energy Sources	100
			191ME5O02	Fundamentals of Mechanical Engineering	100
			191ME5O03	Supply Chain Management	100

Semester	Course Code	Course Name	Course Code	Course Name	% of content revised for the existing year
V	171HS5T06	Employability Skills – III	191ME5O04	3D Printing	100
			191ME5O05	Entrepreneurship Development and Incubation	100
	171CS5L05	Operating System and Linux Lab	191EC5O01	Signals & Systems	100
			191EC5O02	Digital Electronics and Logic Design	100
	171CS5L06	Python Programming Lab	191EC5O03	Semi conductor devices	100
			191CS5O01	Data Structures	0
	171CS5L07	Software Testing Lab	191CS5O02	Object Oriented Programming through C++	0
			191CS5O03	Java Programming	0
	171CS5L08	Compiler Design Lab	191CS5O04	R Programming	0
	171CS5S01	MOOCs – I	191IT5O01	Data Base Management Systems	100
			191IT5O02	Computer Graphics	100
			191MI5O01	Overview of Mining	100
			191PT5O01	Process Intensification in Petroleum Industry	100
			191PT5O02	Fundamentals of Petroleum Industry	100
			191AG5O01	Basic Crop Production Practices	100
			191CS5L04	Operating Systems and Computer Networks Lab	100
			191CS5L05	Database Management Systems Lab	0
			191HS5T06	Employability Skills - III	0
			191PR5P02	Socially Relevant Project	100
			191MC5A08	Intellectual Property Rights and Patents	0
	171CS6T15	Computer Networks	191CS6T12	Data Ware Housing and Data Mining	0
			191CS6T13	Object Oriented Analysis and Design	100
	171CS6T16	Web Technologies	191CS6T14	Web Technologies	50
			191CS6E09	Scripting languages	100
	171CS6T17	Data Ware Housing and Data Mining	191CS6E06	Advance Operating Systems	100
			191CS6E08	Machine Learning	0
	171CS6E05	Software Quality Assurance	191CS6E10	Software Testing Methodologies	60
			191CS6E07	Image Processing	50
	171CS6E06	Bio Informatics	191CS6E11	C# .Net	100
			191CS6E13	Distributed Systems	100
	171CS6E07	Human Computer Interaction	191CS6E14	Natural Language Processing	100
			191CS6E15	Software Quality Assurance	0

Semester	Course Code	Course Name
VI	171CS6E08	Social Networks and Semantic Web
	171CS6E09	Pattern Recognition
	171CS6E10	Parallel Computing
	171CS6E11	Storage Area Networks
	171CS6E12	E - Commerce
	171HS6T07	Employability Skills – IV
	171CS6L09	Computer Networks Lab
	171CS6L10	Data Ware Housing and Data Mining Lab
	171CS6L11	Web Technologies Lab
	171CS6S02	MOOCs – II

Course Code	Course Name	% of content revised for the existing year
191CS6E12	Cloud Computing	0
191CE6O02	Disaster Management	100
191EE6O04	Energy Audit and Conservation Management	100
191EE6O05	Non Conventional Energy resources	100
191EE6O06	Instrumentation	100
191ME6O06	Solar Energy Utilisation	100
191ME6O07	Basic Thermodynamics and Heat Transfer	100
191ME6O08	Introduction to Hydraulics and Pneumatics	100
191ME6O09	3D Printing	100
191ME6O06	Robotics	100
191ME6O09	Management Science	100
191ME6O12	Entrepreneurship Development and Incubation	100
191ME6O07	Biomedical Instrumentation	100
191ME6O08	ECAD Tools	100
191CS6O05	Python Programming	0
191CS6O06	Operating Systems	0
191CS6O07	Web Technologies	0
191CS6O08	Cyber Security	0
191CS6O09	AR / VR	0
191IT6O03	Computer Organization	100
191IT6O04	AI Tools & Techniques	100
191IT6O05	Robotic Process Automation	100
191MI6O02	Industrial Safety Practices	100
191MI6O03	Electrical Equipment's in Mines	100
191PT6O03	Unconventional Hydrocarbon Resources	100
191PT6O04	Asset Management	100
191AG6O02	Weather forecast in Agriculture	100
191AG6O03	Bio-energy systems design and applications	100
191CS6L06	Data Mining and Object Oriented Analysis and Design Lab	100
191CS6L07	Web Technologies Lab	0
191HS6T07	Employability Skills - IV	0
191MC6A09	Professional Ethics and Human Values	0

Semester	Course Code	Course Name
VII	17ICS7T18	Cryptography and Network Security
	17ICS7T19	UML and Design Patterns
	17ICS7T20	Cloud Computing
	17HS7T05	Management Science
	17ICS7E13	Software Project Management
	17ICS5E14	Big Data Analytics
	17ICS7E15	Image Processing
	17ICS7E16	Cyber Laws
	17ICS7E17	Middleware Technologies
	17ICS7E18	Artificial Intelligence and Machine Learning
	17ICS7E19	Information Retrieval Systems
	17ICS7E20	Mobile Computing
	17ICS7L12	UML and Design Patterns Lab
	17ICS7L13	Big Data Analytics Lab
	17ICS7P01	Industry Oriented (Internship) Minor Project
VIII	17ICS8E21	Agile Methodologies
	17ICS8E22	Cyber Security
	17ICS8E23	Distributed Databases
	17ICS8E24	Distributed Systems
	17ICS8O01	Microprocessor and Multi Core Systems
	17ICS8O02	Embedded Systems
	17ICS8O03	Soft Computing
	17IEE8O05	Robotics
	17ICS8O04	Operations Research
	17ICS8O05	Optical Communications
	17IEE8O07	Internet of Things
	17IEC8O02	Disaster Management
	17ICS8O06	Renewable Energy sources
	17ICS8O07	Nano Technology and its Applications
	17ICS8P02	Project Work

Course Code	Course Name	% of content revised for the existing year
17ICS7T18	Cryptography and Network Security	0
17ICS7T19	UML and Design Patterns	0
17ICS7T20	Cloud Computing	0
17HS7T05	Management Science	0
17ICS7E13	Software Project Management	0
17ICS5E14	Big Data Analytics	0
17ICS7E15	Image Processing	0
17ICS7E16	Cyber Laws	0
17ICS7E17	Middleware Technologies	0
17ICS7E18	Artificial Intelligence and Machine Learning	0
17ICS7E19	Information Retrieval Systems	0
17ICS7E20	Mobile Computing	0
17ICS7L12	UML and Design Patterns Lab	0
17ICS7L13	Big Data Analytics Lab	0
17ICS7P01	Industry Oriented (Internship) Minor Project	0
17ICS8E21	Agile Methodologies	0
17ICS8E22	Cyber Security	0
17ICS8E23	Distributed Databases	0
17ICS8E24	Distributed Systems	0
17ICS8O01	Microprocessor and Multi Core Systems	0
17ICS8O02	Embedded Systems	0
17ICS8O03	Soft Computing	0
17IEE8O05	Robotics	0
17ICS8O04	Operations Research	0
17ICS8O05	Optical Communications	0
17IEE8O07	Internet of Things	0
17IEC8O02	Disaster Management	0
17ICS8O06	Renewable Energy sources	0
17ICS8O07	Nano Technology and its Applications	0
17ICS8P02	Project Work	0


Program Coordinator


Head of the Department
Head of the Department
Department of CSE
JYOTI ENGINEERING COLLEGE (AO)



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 Kakina, E.G.Dt., Ph:99498 76662

Department of Information Technology

List of Courses for the Academic Year 2020-2021			List of Courses for the Academic Year 2021-2022		
Semester	Course Code	Course Name	Course Code	Course Name	Percentage of content changed for existing year
I	201HS1T01	Communicative English	201HS1T01	Communicative English	0
	201BS1T01	Differential Equations and Linear algebra	201BS1T01	Differential Equations and Linear algebra	0
	201BS1T04	Engineering Chemistry	201BS1T04	Engineering Chemistry	0
	201ES1T02	Programming for Problem Solving using C	201ES1T02	Programming for Problem Solving using C	0
	201ES1I02	Computer Engineering Workshop	201ES1I02	Computer Engineering Workshop	0
	201HS1L01	Communicative English Lab	201HS1L01	Communicative English Lab	0
	201BS1L03	Engineering Chemistry Lab	201BS1L03	Engineering Chemistry Lab	0
	201ES1L02	Programming for Problem Solving using C Lab	201ES1L02	Programming for Problem Solving using C Lab	0
	201MC1T01	Environmental Science	201MC1T01	Environmental Science	0
II	201BS2T07	Numerical Methods and Complex Variables	201BS2T07	Numerical Methods and Complex Variables	0
	201BS2T09	Applied Physics	201BS2T09	Applied Physics	0
	201ES2T11	Computer Organization	201ES2T11	Computer Organization	0
	201ES2T04	Python Programming	201ES2T04	Python Programming	0
	201ES2T07	Data Structures through C	201ES2T07	Data Structures through C	0
	201BS2L04	Applied Physics Lab	201BS2L04	Applied Physics Lab	0

	201ES2L06	Data Structures through C Lab		201ES2L06	Data Structures through C Lab	0
	201ES2L14	Python Programming Lab		201ES2L14	Python Programming Lab	0
	201MC2L01	Professional Communication Skills Lab		201MC2L01	Professional Communication Skills Lab	0
	201MC2T02	Constitution of India		201MC2T02	Constitution of India	0
III	191BS3T14	Discrete Mathematics		201CS3T01	Advanced data structures	50
	191ES3T13	Digital Logic Design		201CS3T02	Object Oriented Programming through C++	100
	191HS3T02	Managerial Economics and Financial Analysis		201CS3T03	Operating Systems	55
	191CS3T01	Software Engineering		201CS3T04	Software Engineering	25
	191CS3T02	Object Oriented Programming through Java		201BS3T13	Discrete Mathematics	0
	191CS3T03	Advanced Data Structures		201CS3L01	Object Oriented Programming through C++ Lab	0
	191CS3L01	Object Oriented Programming through Java Lab		201CS3L02	Operating Systems Lab	0
	191CS3L02	Advanced Data Structures Lab		201CS3L03	Unix and Shell Programming Lab	100
	191MC3A03	Employability Skills - I		201SO3L05	Skill Oriented Course-I 1. Applications of Pythonnumpy	100
	191MC3A04	Essence of Indian Traditional Knowledge		201SO3L06	2. Web application development using full stack frontend development – module –I	100
				201MC3T03	Biology for Engineers	0
IV	191BS4T18	Probability and Statistics	201BS4T16	Probability and statistics	0	
	191IT4T01	Theory of Computation				
	191CS4T05	Python Programming		201CS4T05	Formal Languages and Automata Theory	0

	191CS4T06	Design and Analysis of Algorithms		201CS4T06	Database Management Systems	0
	191ES4T15	Internet of Things		201CS4T07	Java programming	0
	191CS4T07	Computer Organization		201HS4T03	Managerial Economics and Financial Analysis	0
	191CS4L03	Python Programming Lab		201CS4L04	Database Management Systems Lab	0
	191ES4L17	Internet of Things Lab		201CS4L05	Java Programming Lab	100
	191MC4A05	Employability Skills - II		201CS4L06	R Programming Lab	100
	191MC4A06	Biology for Engineers		201SC4L18	Skill Oriented Course II 1. Applications of python- pandas	100
				201SC4L19	2. Web application development using full stack frontend development module-II)	100
				201MC4T04	Essence of Indian Traditional Knowledge	0
V	171IT5T02	Computer Networks		191CS5T08	Compiler Design	0
	171CS5T12	Python Programming				
	171IT5T03	Unix and Shell Programming				
	171CS5T14	Operating Systems		191CS5T09	Computer Networks	0
	171IT5E01	Artificial Intelligence		191CS5T10	Database Management Systems	0
	171CS5E02	Advanced Computer Architecture		191CS5T11	Operating Systems	0
	171CS5E03	Computer Graphics		191CS5E04	Functional and Logic Programming	100
	171CS5E04	Software Testing Methodologies		191CS5E01	Advanced Computer Architecture	0
	171HS5T06	Employability Skills – III		191CS5E02	Artificial Intelligence	100
	171IT5L01	Operating Systems and Computer Networks Lab		191CS5E05	Software Requirement and Estimation	100

171CS5L06	Python Programming Lab	191CS5E03	Computer Graphics	0
171CS5L07	Software Testing Lab	191CE5O01	Basic Concrete Technology	0
171IT5L02	Unix and Shell Programming Lab	191EE5O01	Electrical Safety	0
171IT5S01	MOOCs – I	191EE5O02	Electrical Materials	0
171IT6T04	Object Oriented Analysis and Design Using UML	191EE5O03	Basic Electrical Measurements	0
171CS6T16	Web Technologies	191ME5O01	Renewable Energy Sources	0
171CS6T17	Data Warehousing and Data Mining	191ME5O02	Fundamentals of Mechanical Engineering	0
171CS6E05	Software Quality Assurance	191ME5O03	Supply Chain Management	0
171IT6E02	Neural Networks	191ME5O04	3D Printing	0
171CS6E08	Social Networks and Semantic Web	191ME5O05	Entrepreneurship Development and Incubation	0
171IT6E03	Design and Analysis of Algorithms	191EC5O01	Signals & Systems	0
171IT6E04	Advanced Computer Networks	191EC5O02	Digital Electronics and Logic Design	0
171CS6E10	Parallel Computing	191EC5O03	Semiconductor devices	0
171IT6E05	Multimedia Programming	191CS5O01	Data Structures	0
171CS6E12	E – Commerce	191CS5O02	Object Oriented Programming through C++	0
171HS6T07	Employability Skills – IV	191CS5O03	Java Programming	0
171IT6L03	Unified Modeling Language Lab	191CS5O04	R Programming	0
171CS6L10	Data Warehousing and Data Mining Lab	191IT5O01	Data Base Management Systems	0
171CS6E05	Software Quality Assurance	191IT5O02	Computer Graphics	0
171IT6E02	Neural Networks	191MI5O01	Overview of Mining	0
171CS6E08	Social Networks and Semantic Web	191PT5O01	Process Intensification in Petroleum Industry	0

	171IT6E03	Design and Analysis of Algorithms		191PT5002	Fundamentals of Petroleum Industry	0
	171IT6E04	Advanced Computer Networks		191AG5001	Basic Crop Production Practices	0
	171CS6E10	Parallel Computing		191CS5L04	Operating Systems and Computer Networks Lab	100
	171IT6E05	Multimedia Programming		191CS5L05	Database Management Systems Lab	0
	171CS6E12	E – Commerce		191HS5T06	Employability Skills - III	0
	171HS6T07	Employability Skills – IV		191PR5P02	Socially Relevant Project	100
	171IT6L03	Unified Modeling Language Lab		191MC5A08	Intellectual Property Rights and Patents	0
VI	171CS6L10	Data Warehousing and Data Mining Lab		191CS6T12	Data Ware Housing and Data Mining	0
	171CS6L11	Web Technologies Lab		191CS6T13	Object Oriented Analysis of Design	100
	171IT6S02	MOOCs – II		191CS6T14	Web Technologies	50
	171CS7T18	Cryptography and Network Security		191CS6E09	Scripting languages	100
	171IT7T05	Big Data Analytics		191CS6E06	Advance Operating Systems	100
	171CS7T20	Cloud Computing		191CS6E08	Machine Learning	0
	171IT7T06	Mobile Computing		191CS6E10	Software Testing Methodologies	60
	171CS7E13	Software Project Management		191CS6E07	Image Processing	50
	171IT7E06	Machine Learning		191CS6E11	C#.Net	100
	171CS7E15	Image Processing		191CS6E13	Distributed Systems	100
	171CS7E16	Cyber Laws		191CS6E14	Natural Language Processing	100
	171CS7E19	Information Retrieval Systems		191CS6E15	Software Quality Assurance	0
	171IT7E07	Human Computer Interaction		191CS6E12	Cloud Computing	0
	171IT7E08	Distributed Systems		191CE6002	Disaster Management	0

R164112A	Internet of Things	191ME6O09	3D Printing	0
R164112B	Multimedia Programming	191ME6O10	Robotics	0
R164105D	Cloud Computing	191EC6O04	Biomedical Instrumentation	0
R164105E	Software Project Management	191EC6O05	ECAD Tools	0
R164112C	Machine Learning	191ME6O11	Management Science	0
R164112D	Decision Support System	191IT6O03	Computer Organization	0
R1641127	Mobile Computing Lab	191CS6O05	Python Programming	0
R1641128	Cryptography and Network Security Lab	191CS6O06	Operating Systems	0
R1641051	Cryptography and Network Security	191IT6O04	AI Tools & Techniques	0
		191CS6O07	Web Technologies	0
		191IT6O05	Robotic Process Automation	0
		191CS6O08	Cyber Security	0
		191CS6O09	AR / VR	0
		191MI6O02	Industrial Safety Practices	0
		191MI6O03	Electrical Equipment's in Mines	0
		191PT6O03	Unconventional Hydrocarbon Resources	0
		191PT6O04	Asset Management	0
		191AG6O02	Weather forecast in Agriculture	0
		191AG6O03	Bio-energy systems design and applications	0
		191ME6O12	Entrepreneurship Development and Incubation	0
		191CS6L06	Data Mining and Object Oriented Analysis of Design Lab	0
		191CS6L07	Web Technologies Lab	0
		191HS6T07	Employability Skills - IV	0
		191MC6A09	Professional Ethics	0

				and Human Values	
			191MI6O03	Electrical Equipment's in Mines	0
			191PT6O03	Unconventional Hydrocarbon Resources	0
			191PT6O04	Asset Management	0
			191AG6O02	Weather forecast in Agriculture	0
			191AG6O03	Bio-energy systems design and applications	0
			191ME6O12	Entrepreneurship Development and Incubation	0
			191CS6L06	Data Mining and Object Oriented Analysis of Design Lab	0
			171CS7T18	Cryptography and Network Security	0
			171IT7T05	Big Data Analytics	0
			171CS7T20	Cloud Computing	0
			171IT7T06	Mobile Computing	0
			171CS7E13	Software Project Management	0
			171IT7E06	Machine Learning	0
			171CS7E15	Image Processing	0
			171CS7E16	Cyber Laws	0
			171CS7E19	Information Retrieval Systems	0
			171IT7E07	Human Computer Interaction	0
			171IT7E08	Distributed Systems	0
			171IT7E09	Decision Support System	0
			171IT7L04	Mobile Computing Lab	0
			171CS7L13	Big Data Analytics Lab	0
			171IT7P01	Industry Oriented (Internship) Minor Project	100
VIII	R1642051	Distributed Systems	171CS8E21	Agile Methodologies	100
	R1642052	Management Science	171CS8E22	Cyber Security	0
	R1642121	Management Information	171CS8E23	Distributed Databases	100

	System				
R164205A	Concurrent and Parallel Programming	171IT8E10	Pattern Recognition	100	
R164212A	CyberSecurity	171IT8O01	Management Information System	100	
R164205B	Artificial Neural Networks	171EE8O06	Microprocessor and Multi Core Systems	0	
R164212B	Software Quality Assurance	171EC8O06	Embedded Systems	0	
R1642055	Seminar	171IT8O02	Computer Vision	100	
R1642056	Project	171IT8O03	Robotics	0	
		171CS8O04	Operations Research	0	
		171CS8O05	Optical Communications	0	
		171EE8O07	Internet of Things	0	
		171EC8O02	Disaster Management	0	
		171CS8O07	Nano Technology and its Applications	0	
		171IT8P02	Major Project	0	
		171EC8O02	Disaster Management	0	
		171CS8O06	Renewable Energy sources	0	
		171CS8O07	Nano Technology and its Applications	0	
		171CS8P02	Project Work	0	



Program Coordinator



Head of the Department

Head of the Department
Department of IT
Aditya Engineering College



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

DEPARTMENT OF PETROLEUM TECHNOLOGY

List of courses for the Academic Year 2020-2021

List of courses for the Academic Year 2021-2022

Semester	Course Code	Course Name	Course Code	Course Name	% of content revised for the existing year
I	201HS1T01	Communicative English	201HS1T01	Communicative English	0
	201BS1T01	Differential equations and Linear algebra	201BS1T01	Differential equations and Linear algebra	0
	201BS1T02	Engineering Physics	201BS1T02	Engineering Physics	0
	201ES1T03	Essential Electrical and Electronics Engineering	201ES1T03	Essential Electrical and Electronics Engineering	0
	201ES1T05	Engineering Graphics	201ES1T05	Engineering Graphics	0
	201HS1L01	Communicative English Lab	201HS1L01	Communicative English Lab	0
	201BS1L01	Engineering Physics Lab	201BS1L01	Engineering Physics Lab	0
	201ES1L03	Essential Electrical and Electronics Engineering Lab	201ES1L03	Essential Electrical and Electronics Engineering Lab	0

	201MC1T01	Environmental Science		201MC1T01	Environmental Science	0
II	201BS2T05	Partial Differential Equations and Vector Calculus		201BS2T05	Partial Differential Equations and Vector Calculus	0
	201BS2T08	Chemistry of Materials		201BS2T08	Chemistry of Materials	0
	201ES2T06	Engineering Mechanics		201ES2T06	Engineering Mechanics	0
	201ES2T08	Programming for Problem Solving Using C		201ES2T08	Programming for Problem Solving Using C	0
	201ES2L07	Engineering Workshop		201ES2L07	Engineering Workshop	0
	201ES2L12	Computer Aided Drafting Lab		201ES2L12	Computer Aided Drafting Lab	0
	201HS2L02	Professional Communications Skills Lab		201HS2L02	Professional Communications Skills Lab	0
	201BS2L05	Engineering Chemistry Lab		201BS2L05	Engineering Chemistry Lab	0
	201ES2L10	Programming for Problem Solving Using C Lab		201ES2L10	Programming for Problem Solving Using C Lab	0
	201MC2T02	Constitution of India		201MC2T02	Constitution of India	0
III	191PT3T01	Petroleum Exploration		201BS3T14	Numerical Methods and integral transforms	0
	191PT3T02	Geology and Sedimentology		201PT3T01	Principles of Geology for Petroleum Engineers	0

	191PT3T03	Chemical Process Calculations		201PT3T02	Material Balance and Energy	0
	191PT3T04	Mechanical and Materials Science and Engineering		201PT3T03	Petroleum Exploration	0
	191PT3L01	Mechanical and Material Science Lab		201PT3T04	Fluid Mechanics for Petroleum Engineers	0
	191PT3L02	Geology Lab		201PT3L01	Principles of Geology for Petroleum Engineers Lab	0
	191BS3T15	Numerical Methods and Integral Transforms		201PT3L02	Fluid Mechanics for Petroleum Engineers Lab	0
	191MC3A03	Employability Skills – I		201PT3L03	Mathematical Methods Lab	0
				201SC3L10	Skill oriented course -Industry Exploration Project	100
IV	191PT4T06	Momentum Transfer		201ES4T20	Mechanical and Materials Science and Engineering	0
	191PT4T07	Petroleum Geology		201BS4T17	Complex Variables and Statistical Methods	0
	191PT4T05	Process Heat Transfer		201PT4T05	Petroleum Geology	0
	191HS3T02	Managerial Economics and Financial Analysis		201PT4T06	Heat Transfer Operations	0
	191HS4T03	Management Science		201HS4T06	Management and Organizational Behavior	0
	191ES4T15	Internet of Things		201ES4L16	Mechanical and Materials Science and Engineering Lab	0

	191MC4A05	Employability Skills – II		201PT4L04	Heat Transfer Operations Lab	0
	191BS4T19	Complex Variables and Statistical Methods		201PT4L05	Petroleum Geology Lab	0
	191PT4L03	Process Heat Transfer Lab		201SC4L21	Python Programming	0
	191PT4L04	Momentum Transfer Lab				
V	171PT5T06	Process Dynamics and Control		191PT5T08	Instrumentation and Process Control	0
	171PT5T07	Petroleum Exploration		191PT5T09	Well Logging and Mud Logging	38
	171PT5T08	Process Instrumentation		191PT5T10	Drilling Technology	0
	171PT5T09	Well Logging and Formation Evaluation		191PT5T11	Thermodynamics for Petroleum Engineers	0
	171PT5T10	Drilling Technology		191PT5E03	Well Engineering and Design	0
	171PT5E01	Well Engineering and Design		191PT5E02	Pipeline Engineering	0
	171PT5E02	Fundamentals of Liquefied Natural Gas		191PT5E01	Natural Gas Engineering and Processing	100
	171PT5E03	Pipeline Engineering		191PT5O01	Process Intensification in Petroleum Industry	0
	171PT5L03	Instrumentation, Process Dynamics and Control Lab		191PT5O02	Fundamentals of Petroleum Industry	100

	171PT5L04	Drilling Fluids Lab		191PT5L04	Drilling Fluids Lab	0
	171HS5T06	Employability Skills - III		191PT5L05	Instrumentation, Process Dynamics and Control Lab	0
	171PT5S01	MOOCs – I		191ES5T16	Employability Skills – III	0
				191PR5P01	Socially Relevant Project	100
VI	171PT6T11	Well Completions, Testing and Services		191PT6T12	Petroleum Refinery and Petrochemical Engineering	0
	171PT6T12	Petroleum Production Engineering		191PT6T13	Petroleum Production Engineering	0
	171PT6T13	Petroleum Reservoir Engineering - I		191PT6T14	Petroleum Reservoir Engineering-I	0
	171PT6T14	Surface Production Operations		191PT6E06	Well Completions, Testing and Services	0
	171PT6E04	Petroleum Refining and Petrochemical Engineering		191PT6E05	Operational and Maintenance of Pipelines	100
	171PT6E05	Storage and Transportation of Crude Oil and Natural Gas.		191PT6E04	Fundamentals of Liquefied Natural gas	20
	171PT6E06	Reservoir Stimulation		191PT6E09	Unconventional Hydrocarbon Resources	100
	171PT6E07	Natural Gas Hydrates		191PT6E08	Storage and Transportation of Crude oil and Natural gas	0
	171PT6E08	Natural Gas Engineering		191PT6E07	Advanced Separation Techniques	100

	171PT6E09	Horizontal Well Technology		191PT6O03	Unconventional Hydrocarbon Resources	100
	171PT6L05	Petroleum Analysis Lab		191PT6O04	Asset Management	100
	171PT6L06	Petroleum Réservoir Simulation Lab		191PT6L06	Petroleum Reservoir Engineering Lab	0
	171HS6T07	Employability skills - IV		191PT6L07	Petroleum Analysis Lab	0
	171PT5S02	MOOCs – II		191ES6T17	Employability Skills - IV	0
VII	171PT7T15	Integrated Asset Management and Petroleum Economics		171PT7T15	Integrated Asset Management and Petroleum Economics	0
	171PT7T16	Petroleum Reservoir Engineering - II		171PT7T16	Petroleum Reservoir Engineering - II	0
	171PT7T17	IOR and EOR Techniques		171PT7T17	IOR and EOR Techniques	0
	171PT7T18	Oil and Gas Processing Plant Design		171PT7T18	Oil and Gas Processing Plant Design	0
	171PT7E10	Coal Bed Methane		171PT7E10	Coal Bed Methane	0
	171PT7E11	Offshore Engineering		171PT7E11	Offshore Engineering	0
	171PT7E12	Petroleum Corrosion Technology		171PT7E12	Petroleum Corrosion Technology	0
	171PT7E13	Shale Gas Reservoir Engineering		171PT7E13	Shale Gas Reservoir Engineering	0

	171PT7E14	Subsea Engineering		171PT7E14	Subsea Engineering	0
	171PT7E15	Reservoir Modeling and Simulation		171PT7E15	Reservoir Modeling and Simulation	0
	171PT7L07	Petroleum Equipment Design and Simulation Lab		171PT7L07	Petroleum Equipment Design and Simulation Lab	0
	171PT7L08	Petroleum Reservoir Engineering Lab		171PT7L08	Petroleum Reservoir Engineering Lab	0
	171HS7A04	Managerial Economics and Financial Analysis		171HS7A04	Managerial Economics and Financial Analysis	0
	171PT7P01	Industry Oriented (Internship) Minor Project		171PT7P01	Industry Oriented (Internship) Minor Project	0
VIII	171PT8E16	HSE and FE in Petroleum Industry		171PT8E16	HSE and FE in Petroleum Industry	0
	171PT8E17	Reliability and Risk Management in Petroleum Operations		171PT8E17	Reliability and Risk Management in Petroleum Operations	0
	171PT8E18	Deep Sea Production Systems		171PT8E18	Deep Sea Production Systems	0
	171PT8O01	Green Technologies		171PT8O01	Green Technologies	0
	171PT8O02	Non-Conventional Sources of Energy		171PT8O02	Non-Conventional Sources of Energy	0
	171PT8O03	Alternative Energy Sources for Automobiles		171PT8O03	Alternative Energy Sources for Automobiles	0
	171PT8O04	Waste Water Treatment		171PT8O04	Waste Water Treatment	0

	171PT8O05	Computational Fluid Dynamics		171PT8O05	Computational Fluid Dynamics	0
	171PT8O06	Process Intensification in Petroleum Industry		171PT8O06	Process Intensification in Petroleum Industry	0
	171EC8O02	Disaster Management		171EC8O02	Disaster Management	0
	171PT8P02	Major Project		171PT8P02	Major Project	0


Programme Coordinator


Head of Department
Head of the Department
Department of Petroleum Technology
Aditya Engineering College (A)
SURAMPALAM-5 437



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

Department of Agricultural Engineering

List Of Courses for the Academic Year 2020-2021			List Of Courses for the Academic Year 2021-2022		
Semester	Course Code	Course Name	Course Code	Course Name	Percentage of content changed for existing year
I	201HS1T01	Communicative English	201HS1T01	Communicative English	0
	201BS1T01	Differential equations and Linear algebra	201BS1T01	Differential equations and Linear algebra	0
	201BS1T02	Engineering Physics	201BS1T02	Engineering Physics	0
	201ES1T04	Principles of Agronomy and Soil Science	201ES1T04	Principles of Agronomy and Soil Science	0
	201ES1T05	Engineering Graphics	201ES1T05	Engineering Graphics	0
	201HS1L01	Communicative English Lab	201HS1L01	Communicative English Lab	0
	201BS1L01	Engineering Physics Lab	201BS1L01	Engineering Physics Lab	0
	201ES1L04	Soil Science and Agronomy Field Lab	201ES1L04	Soil Science and Agronomy Field Lab	0
	201MC1T01	Environmental Science	201MC1T01	Environmental Science	0
	201BS2T05	Partial Differential Equations and Vector Calculus	201BS2T05	Partial Differential Equations and Vector Calculus	0
II	201BS2T08	Chemistry of Materials	201BS2T08	Chemistry of Materials	0
	201ES2T06	Engineering Mechanics	201ES2T06	Engineering Mechanics	0
	201ES2T08	Programming for Problem Solving Using C	201ES2T08	Programming for Problem Solving Using C	0
	201ES2L07	Engineering Workshop	201ES2L07	Engineering Workshop	0
	201ES2L12	Computer Aided Drafting Lab	201ES2L12	Computer Aided Drafting Lab	0
	201HS2L02	Professional communications skills Lab	201HS2L02	Professional communications skills Lab	0
	201BS2L05	Engineering Chemistry Lab	201BS2L05	Engineering Chemistry Lab	0
	201ES2L10	Programming for Problem Solving Using C	201ES2L10	Programming for Problem Solving Using C	0
	201MC2T02	Constitution of India	201MC2T02	Constitution of India	0
	191BS3T11	Integral Transforms and Applications of Partial Differential Equations	201BS3T12	Integral Transforms and Applications of Partial Differential Equations	0
	191ES3T10	Internet of Things	201AG3T01	Surveying and Levelling	0
	191HS3T02	Managerial Economics and Financial Analysis	201AG3T02	Fluid Mechanics and Open Channel Hydraulics	0
	191AG3T01	Principles of Agronomy and Soil Science	201AG3T03	Thermodynamics, Refrigeration and Air Conditioning	30
	191AG3T02	Fluid Mechanics and Open Channel Hydraulics	201AG3T04	Strength of Materials	5

III	191AG3T03	Surveying and Leveling	201AG3L01	Surveying and Levelling Lab	0
	191AG3L01	Principles of Agronomy and Soil Science Lab	201AG3L02	Fluid Mechanics and Open Channel Hydraulics Lab	0
	191AG3L02	Fluid Mechanics and Open Channel Hydraulics Lab	201AG3L03	Thermodynamics, Refrigeration and Air Conditioning Lab	100
	191AG3L03	Surveying and Leveling Lab	201SO3L10	1) Computer Aided Manufacturing	100
	191MC3A03	Employability Skills – I	201SO3L11	2) Computer Aided Design using SolidWorks	100
	191MC3A04	Essence of Indian Traditional Knowledge	201MC3T03	Biology for Engineers	0
IV	191BS4T16	Numerical Methods & Statistical Techniques	201ES4T21	Soil Mechanics	100
	191AG4T04	Thermodynamics and Refrigeration System	201BS4T15	Numerical Methods and Statistical Techniques	0
	191AG4T05	Farm Power and Tractor Systems	201AG4T05	Heat and Mass Transfer	0
	191AG4T06	Ground Water Hydrology	201AG4T06	Tractor Systems and Controls	30
	191AG4T07	Heat and Mass Transfer	201HS4T07	Entrepreneurship Development and Business Management	100
	191AG4T08	Surface Water Hydrology	201ES4L17	Soil Mechanics Lab	15
	191AG4L04	Ground Water Hydrology Lab	201AG4L04	Tractor Systems and Controls Lab	30
	191AG4L05	Farm Power and Tractor Systems Lab	201AG4L05	Heat and Mass Transfer Lab	0
	191AG4L06	Heat and Mass Transfer lab	201SC4L22	1) Food Quality and Control	100
	191MC4A05	Employability Skills – II	201SC4L23	2) Analysis/Simulation using MATLAB	100
	191MC4A06	Biology for Engineers	201MC4T04	Essence of Indian Traditional Knowledge	0
V	171AG5T09	Theory of Structures	191AG5T09	Strength of Materials	0
	171AG5T10	Irrigation and Drainage Engineering	191AG5T10	Theory and Design of Agricultural Machinery	30
	171AG5T11	Agricultural Process Engineering	191AG5T11	Agricultural Process Engineering and Food Quality	20
V	171AG5T12	Agricultural Extension Techniques and Business Management	191AG5E01	Engineering Properties of Biological Materials	20
	171AG5T13	Farm Power and Tractor Systems	191AG5E02	Mechanical Measurement and Instrumentation	0
	171AG5E01	Agro Industries and Bi-Product Utilization	191AG5E03	Theory of Structures	0
	171HS5E01	Managerial Economics and Financial Analysis	191AG5O01	Basic Crop Production Practices	100
	171AG5E02	Rural Water Supply, Sanitation and Environmental Engineering	191AG5L07	Soil Mechanics Lab	100
	171HS5T06	Employability Skills - III	191AG5L08	Theory and Design of Agricultural Machine LAB	100
	171AG5L02	Agricultural Process Engineering Lab	191AG5L09	Agricultural Process Engineering and Food Quality LAB	10
	171AG5L03	Field Operation and Maintenance of Tractors Lab	191HS5T06	Employability Skills - III	0
	171AG5S01	MOOCs – I	191PR5P02	Socially Relevant Project	100

VI	171AG6T15	Farm Machinery and Equipment – I	191AG6T13	Post-Harvest Engineering for Horticultural Produce	5
	171AG6T16	Design of Soil, Water Conservation and Farm Structures	191AG6T14	Agricultural Machinery and Equipment	40
	171AG6T17	Post Harvest Engineering for Horticulture Produce	191AG6E06	Human Engineering and Safety	10
	171AG6E03	GIS and Remote Sensing	191AG6E04	Agricultural Structures	10
	171AG6E04	Human Engineering and Safety	191AG6E05	Agro Industries and By- Product Utilization	10
	171AG6E05	Production Technology of Agricultural Machinery	191AG6E07	Design of Agricultural Machinery	30
	171AG6E06	Green House / Poly House Technology	191AG6E09	Watershed Planning and Management	15
	171AG6E07	Optimization, Operations Research and Systems Engineering	191AG6E08	Seed Processing and Storage Engineering	15
	171AG6E08	Industrial Engineering and Management	191AG6O02	Weather Forecast in Agriculture	100
	171HS6T07	Employability Skills - IV	191AG6O03	Bio-Energy Systems Design and Applications	100
	171AG6L04	Farm Machinery Lab - I	191AG6L10	Irrigation and Drainage Engineering LAB	100
	171AG6L05	Soil and Water Engineering Lab	191AG6L11	Agricultural Machinery and Equipment Lab	30
	171AG6S02	MOOCs – II	191HS6T07	Employability Skills – IV	0
			191MC6A09	Professional Ethics and Human Values	0
VII	171AG7T18	Micro Irrigation Engineering	171AG7T18	Micro Irrigation Engineering	0
	171AG7T19	Farm Machinery and Equipment – II	171AG7T19	Farm Machinery and Equipment – II	0
	171AG7T20	Dairy and Food Engineering	171AG7T20	Dairy and Food Engineering	0
	171ES7T26	Mechanical Measurements and Instrumentation	171ES7T26	Mechanical Measurements and Instrumentation	0
	171AG7E09	Seed Processing and Storage Engineering	171AG7E09	Seed Processing and Storage Engineering	0
	171AG7E10	Food Processing Plant Design and Layout	171AG7E10	Food Processing Plant Design and Layout	0
	171AG7E11	Food Packaging Technology	171AG7E11	Food Packaging Technology	0
	171AG7E12	Aqua Cultural Engineering	171AG7E12	Aqua Cultural Engineering	0
	171AG7E13	Soil Dynamics in Tillage and Traction	171AG7E13	Soil Dynamics in Tillage and Traction	0
	171AG7E14	Computational Fluid Dynamics	171AG7E14	Computational Fluid Dynamics	0
	171AG7L06	Farm Machinery Lab – II	171AG7L06	Farm Machinery Lab – II	0
	171AG7L07	Dairy and Food Engineering Lab	171AG7L07	Dairy and Food Engineering Lab	0
	171AG7P01	Industry Oriented (Internship) Minor Project	171AG7P01	Industry Oriented (Internship) Minor Project	0
	171AG8E15	Hydraulic Devices and Control	171AG8E15	Hydraulic Devices and Control	0
	171AG8E16	Watershed Management	171AG8E16	Watershed Management	0
	171AG8E17	Design of Agricultural Machinery	171AG8E17	Design of Agricultural Machinery	0
	171AG8O01	Digital Control systems	171AG8O01	Digital Control systems	0

VIII	171AG8O02	Industrial Pollution Control Engineering	171AG8O02	Industrial Pollution Control Engineering	0
	171AG8O03	Mechatronics	171AG8O03	Mechatronics	0
	171AG8O04	Water Resources Systems Planning and Management	171AG8O04	Water Resources Systems Planning and Management	0
	171CS8O04	Operations Research	171CS8O04	Operations Research	0
	171AG8O05	Image Processing Techniques	171AG8O05	Image Processing Techniques	0
	171AG8P02	Major Project	171AG8P02	Major Project	0


Program Coordinator


N.V. God
Head of the Department
Head of the Department
Department of Agricultural Engineering
ADITYA ENGINEERING COLLEGE (A9)



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

Department of Mining Engineering

List of the Courses for The Academic year 2020-21			List of the Courses for The Academic year 2021-22		
Semester	Course Code	Course Name	Course Code	Course Name	Percentage of content changed for existing year
I	201HS1T01	Communicative English	201HS1T01	Communicative English	0
	201BS1T01	Differential equations and Linear algebra	201BS1T01	Differential equations and Linear algebra	0
	201BS1T02	Engineering Physics	201BS1T02	Engineering Physics	0
	201ES1T03	Essential Electrical and Electronics Engineering	201ES1T03	*Essential Electrical and Electronics Engineering	0
	201HS1L01	Communicative English Lab	201ES1T05	Engineering Graphics	0
	201BS1L01	Engineering Physics Lab	201HS1L01	Communicative English Lab	0
	201ES1T05	Engineering Graphics	201BS1L01	Engineering Physics Lab	0
	201ES1L03	Essential Electrical and Electronics Engineering Lab	201ES1L03	Essential Electrical and Electronics Engineering Lab	0
	201MC1T01	Environmental Science	201MC1T01	Environmental Science	0
II	201BS2T05	Partial Differential Equations and Vector Calculus	201BS2T05	Partial Differential Equations and Vector Calculus	0
	201BS2T08	Chemistry of Materials	201BS2T08	Chemistry of Materials	0
	201ES2T06	Engineering Mechanics	201ES2T06	Engineering Mechanics	0
	201ES2T08	Programming for Problem Solving Using C	201ES2T08	Programming for Problem Solving Using C	0
	201ES2L07	Engineering Workshop	201ES2L07	Engineering Workshop	0
	201ES2L12	Computer Aided Drafting Lab	201ES2L12	Computer Aided Drafting Lab	0
	201HS2L02	Professional Communications Skills Lab	201HS2L02	Professional Communications Skills Lab	0
	201BS2L05	Engineering Chemistry Lab	201BS2L05	Engineering Chemistry Lab	0
	201ES2L10	Programming for Problem Solving Using C Lab	201ES2L10	Programming for Problem Solving Using C Lab	0
	201MC2T02	Constitution of India	201MC2T02	Constitution of India	0
III	191BS3T15	Numerical Methods and Integral Transforms	201BS3T14	Numerical Methods and Integral Transforms	0
	191ES3T10	Internet of Things	201ES3T17	Basic Mechanical Engineering	0
	191ES3T14	Basic Mechanical Engineering	201MI3T01	Mining Geology	0
	191MI3T02	Mine Surveying-I	201MI3T02	Mine Surveying	0
	191MI3T01	Mining Geology	201MI3T03	Development of Mineral Deposits	0

III	191MI3T03	Development of Mineral Deposits	201MI3L01	Geology Lab	0
	191MI3L01	Geology Lab	201MI3L02	Basic Mechanical Engineering Lab	0
	191MI3L02	Basic Mechanical Engineering Lab	201MI3L03	Mine Surveying Lab -I	0
	191MC3A04	Essence of Indian Traditional Knowledge	201SO3L09	Geo-Statistics through SURPAC	20
	191MC3A03	Employability Skills – I	201MC3T03	Biology for Engineers	0
IV	191MI4T05	Surface Mining	201BS4T17	Complex Variables and Statistical Methods	0
	191MI4T04	Mine Surveying-II		0	
	191MI4T07	Fundamentals of Rock Mechanics	201MI4T04	Fundamentals of Rock Mechanics	0
	191MI4T06	Underground Coal Mining Technology	201MI4T05	Surface Mining	0
	191BS4T19	Complex Variables and Statistical Methods	201MI4T06	Underground Coal Mining Technology	0
	191MI4T08	Geo-statistics		Managerial Economics and Financial Accountancy	0
	191MI4L03	Rock Mechanics Lab	201BS4T18		
	191ES4L18	Mine Surveying Lab	201MI4L04	Rock Mechanics Lab	0
	191MC4A05	Employability Skills – II	201MI4L05	Mine Surveying Lab -II	0
	191MC4A06	Biology for Engineers	201SC4L20	Data Analytics for Mining using Python	100
V	171MI5T09	Under Ground Coal Mining Technology		Essence of Indian Traditional Knowledge	0
	171MI5T10	Mine Environment Engineering - I			
	171MI5T11	Basic Geo Mechanics	191MI5T09	Mine Systems Engineering	0
	171MI5T12	Mine Surveying - II	191MI5T10	Underground Metal Mining Technology	0
	171HS5T04	Managerial Economics and Financial Analysis	191MI5T11	Mine Environment & Ventilation Engineering	10
	171MI5E01	Maintenance and Reliability Engineering		10	
	171MI5E02	Mine Construction and Management	191MI5T12	Mine Machinery	0
	171MI5E03	Industrial Management and Labor Relations	191MI5E02	Environmental Impact Assessment	
	171HS5T06	Employability Skills – III	191MI5E03	Planning of Underground Coal Mining Project	0
	171MI5L03	Rock Mechanics Lab	191MI5E04	Sustainable Mining	100
	171MI5L04	Mine Surveying Lab			
	171MI5S01	MOOCs-I	191MI5E01	Drilling & Blasting	0
	171MI6T13	Under Ground Metal Mining Technology	191MI5O01	Overview of mining	100
	171MI6T14	Mineral Processing Technology			
	171MI6T15	Mine Environment Engineering - II	191MI5L04	Mine Environment & Ventilation Engineering Lab	0
			191HS5T06	Employability Skills – III	0
			191PR5P02	Socially Relevant Project	100
			191MC5A08	Intellectual Property Rights and Patents	0
			191MI6T13	Mineral Processing Technology	30
			191MI6T14	Mine Hazards & Rescue	15

VI	171MI6T16	Mining Machinery	191MI6T15	Environmental Management in Mines	100
	171MI6E04	Advanced Geo Mechanics	191MI6E06	Mine Health & Safety Engineering	0
	171MI6E05	Mine Fire and Spontaneous	191MI6E07	Planning of Underground Metal Mining Project	0
	171MI6E06	Mineral Exploration	191MI6E05	Green Mining	100
	171MI6E07	Advance Surveying Technology	191MI6E08	Rock Fragmentation Engineering	0
	171MI6E08	Mine Subsidence Engineering	191MI6E10	Environmental Pollution and Control	5
	171MI6E09	Rock Fragmentation Engineering	191MI6E11	Planning of Surface Mining Project	0
	171HS6T07	Employability Skills - IV	191MI6E09	Deep Sea Mining	0
	171MI6L05	Mineral Processing Technology Lab	191MI6E12	Rock Excavation Engineering	20
	171MI6L06	Environmental Engineering Lab	191MI6O02	Industrial Safety Practices	100
	171MI6S02	MOOCs II	191MI6O03	Electrical equipments in Mine	100
			191MI6L05	Mine Planning & Design Lab	0
			191MI6L06	Mineral Processing Lab	40
VII			191HS6T07	Employability Skills – IV	0
			191MC6A09	Professional Ethics and Human Values	100
	171MI7T17	Mine Economics	171MI7T17	Mine Economics	0
	171MI7T18	Mine Health and Safety Engineering	171MI7T18	Mine Health and Safety Engineering	0
	171MI7T19	Mine Legislation and General Safety	171MI7T19	Mine Legislation and General Safety	0
	171MI7T20	Mine Management	171MI7T20	Mine Management	0
	171MI7E10	Planning of UGMM Project	171MI7E10	Planning of UGMM Project	0
	171MI7E11	Planning of UGCM Project	171MI7E11	Planning of UGCM Project	0
	171MI7E12	Planning of Surface Mining Project	171MI7E12	Planning of Surface Mining Project	0
	171MI7E13	Mine mechanization	171MI7E13	Mine mechanization	0
	171MI7E14	Advance Underground Coal Mining Technology	171MI7E14	Advance Underground Coal Mining Technology	0
	171MI7E15	Mine Blasting operation	171MI7E15	Mine Blasting operation	0
	171MI7L07	Mine Planning and Design Lab	171MI7L07	Mine Planning and Design Lab	0
	171ES7L16	Mechanical Engineering Lab	171ES7L16	Mechanical Engineering Lab	0
	171MI7P01	Industry Oriented (Internship) Minor Project	171MI7P01	Industry Oriented (Internship) Minor Project	0
	171MI8E16	Mine Systems Engineering	171MI8E16	Mine Systems Engineering	0
	171MI8E17	Advance Surface Mining Technology	171MI8E17	Advance Surface Mining Technology	0

VIII	171MI8E18	Advanced Underground Metal Mining Technology	171MI8E18	Advanced Underground Metal Mining Technology	0
	171EE8O05	Robotics	171EE8O05	Robotics	0
	171MI8O01	Environmental Impact Assessment	171MI8O01	Environmental Impact Assessment	0
	171MI8O02	Mine Closure and Reclamation	171MI8O02	Mine Closure and Reclamation	0
	171MI8O03	Fundamentals of Communication	171MI8O03	Fundamentals of Communication	0
	171MI8O04	Remote Sensing and GIS	171MI8O04	Remote Sensing and GIS	0
	171MI8O05	Quantitative Decision Making	171MI8O05	Quantitative Decision Making	0
	171MI8P02	Major Project	171MI8P02	Major Project	0


Program Coordinator


Head of the Department
Head of the Department
DEPARTMENT OF MINING ENGINEERING
ADITYA ENGINEERING COLLEGE (AU)



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

Department of Master of Computer Applications

List Of Courses for the Academic Year 2020-2021			List Of Courses for the Academic Year 2021-2022		
Semester	Course Code	Course Name	Course Code	Course Name	Percentage of content changed for existing year
I	203MC1T01	Business Communication	203MC1T01	Business Communication	0
	203MC1T02	Mathematical and Statistical Foundations	203MC1T02	Mathematical and Statistical Foundations	0
	203MC1T03	Computer Organization & Operating Systems	203MC1T03	Computer Organization & Operating Systems	0
	203MC1T04	Data Structures	203MC1T04	Data Structures	0
	203MC1T05	Object Oriented Programming with JAVA	203MC1T05	Object Oriented Programming with JAVA	0
	203MC1L01	Operating Systems and Linux Lab	203MC1L01	Operating Systems and Linux Lab	0
	203MC1L02	Data Structures Lab	203MC1L02	Data Structures Lab	0
	203MC1L03	JAVA Programming Lab	203MC1L03	JAVA Programming Lab	0
	203MC1P01	Socially Relevant Project using Design Thinking	203MC1P01	Socially Relevant Project using Design Thinking	0
	203MC2T06	Database Management Systems	203MC2T06	Database Management Systems	0
	203MC2T07	Computer Networks	203MC2T07	Computer Networks	0

203MC2T08	Software Engineering and Design Patterns
203MC2T09	Data Warehousing and Mining
203MC2E02	Design and Analysis of Algorithms
203MC2L04	DBMS Lab
203MC2L05	Computer Networks Lab
203MC2L06	Software Engineering and Design Patterns Lab
203MC2E01	No SQL Databases
203MC2E02	Design and Analysis of Algorithms
203MC2E03	Mobile Application Development
203MC2E04	Artificial Intelligence
203MC2E05	Accounting for Managers
203MC2T10	Employability Skills
193MC3T11	Database Management Systems
193MC3T12	Computer Networks
193MC3T13	Design & Analysis of Algorithms
193MC3T14	Advanced Java Programming
193MC3T15	Object Oriented Analysis and Design
193MC3L07	Database Management Systems Lab

II

203MC2T08	Software Engineering and Design Patterns	0
203MC2T09	Data Warehousing and Mining	0
203MC2E02	Design and Analysis of Algorithms	0
203MC2L04	DBMS Lab	0
203MC2L05	Computer Networks Lab	0
203MC2L06	Software Engineering and Design Patterns Lab	0
203MC2E01	No SQL Databases	0
203MC2E02	Design and Analysis of Algorithms	0
203MC2E03	Mobile Application Development	0
203MC2E04	Artificial Intelligence	0
203MC2E05	Accounting for Managers	0
203MC2T10	Employability Skills	0
203MC3T11	Machine Learning with Python	0
203MC3T12	Internet of Things	0
203MC3T13	Web Technologies	0
203MC3T14	Cryptography and Network Security	0
203MC3E08	Cloud Computing	0
203MC3L07	Machine Learning with Python Lab	0

III

193MC3L08	Advanced Java Programming Lab
193MC3L09	OOAD through UML Lab
193MC4T16	Data Warehousing & Data Mining
193MC4T17	Full Stack Technologies
193MC4T18	Python Programming
193MC4E01	Embedded Computing
193MC4E02	Artificial Intelligence
193MC4E03	MOOCs-1
193MC4E04	Cloud Computing
193MC4E05	Multimedia Application Development
193MC4E06	MOOCs-2
193MC4L10	Full Stack Technologies Lab
193MC4L11	Data Mining with R Lab
173MC5T19	Big Data Analytics
173MC5T20	Network Programming
173MC5T21	Python Programming

IV

203MC3L08	IoT Lab	100
203MC3L09	Web Technologies Lab	0
203MC3P02	Internship / Industry Oriented Mini Project/ Skill Development Course	100
203MC3E06	Soft Computing	100
203MC3E07	Software Project Management	0
203MC3E08	Cloud Computing	0
203MC3E09	Optimization Techniques	0
203MC3E10	Cyber Security	0
203MC4E11	Digital Marketing	0
203MC4E12	Human Resource Management	0
203MC4E13	Deep Learning	100
203MC4E14	Ad-hoc and Sensor Networks	0
203MC4S01	MOOCs-1(NPTEL/SWAYAM)- Full	0
203MC4E15	Network Programming	0
203MC4E16	Block Chain technologies	100
203MC4E17	Software Testing Methodologies	0
203MC4E18	Big Data Analytics	0
203MC4E16	Block Chain technologies	0
203MC4P03	Project Work/ Dissertation	80
193MC5T19	Cryptography and Network Security	0
193MC5T20	Big Data Analytics	100
193MC5T21	Machine Learning	100

V	173MC5E07	Cyber Security	193MC5E07	Digital Marketing	100
	173MC5E08	Computer Forensics	193MC5E08	Natural Language Processing	100
	173MC5E09	E – Commerce	193MC5E10	Internet of Things	0
	173MC5E10	Internet of Things	193MC5E11	DevOps	100
	173MC5E11	Multimedia Application Development	193MC5E12	MOOCs-4	0
	173MC5E12	Software Testing Methodologies	193MC5L13	Cryptography and Network Security	0
	173MC5E13	Big Data Analytics Lab	193MC5L14	Big Data Analytics Lab	0
	173MC5E14	Network Programming Lab	193MC5L15	Machine Learning with Python Lab	100
	173MC5E15	Python Programming Lab			
	173MC6R01	Seminar			
	173MC6P01	Major Project			
VI					

T. Sathy
Program Coordinator

B. Gulab
Head of The Department
Head of the Department
Department of MCA
Aditya Engineering College