



AMRITA SAI INSTITUTE OF SCIENCE AND TECHNOLOGY (AUTONOMOUS)


Approved by AICTE, New Delhi; Permanently Affiliated to JNTUK, Kakinada,
Recognized by UGC under 2(f) & 12(B) of 1956 Act.,
An ISO 9001:2015 Certified institution, Accredited by NAAC "A" Grade,
Paritala, Kanchikacherla, Krishna Dist., Andhra Pradesh – 521 180.
www.amritasai.org.in, Phone: 0866-2428399



1.2.1 Percentage of New Courses introduced out of the total number of courses across all the programs offered during the last five years.

S.NO	YEAR	ENGINEERING	PG-MBA/MCA /M.TECH	TOTAL NO OF NEW COURSES	TOTAL COURSES	PERCENTAGE
1	2022-23	49	09	58	1357	24.02%
2	2021-22	49	67	116		
3	2020-21	59	49	108		
4	2019-20	33	11	44		
5	2018-19	--	--	--		
GRAND TOTAL				326		


COORDINATOR


IQAC Coordinator
Amrita Sai Institute of Science & Technology
Amrita Sai Nagar, Paritala -521180


PRINCIPAL

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Amrita Sai Institute of Science and Technology
Amrita Sai Nagar, Paritala
Krishna Dist 521 180



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NEWLY ADDED COURSES A.Y-2020-21

S.No	Name of the Course	Regulation	Year/Sem	Course Code	Name of New Courses Introduced	Year of Introduction
1	B.Tech	AR18	III-I	18CE5T7	Personality Development	2020-21
2	B.Tech		III-II	18CE6T5A	Electronic Instrumentation & Sensor Technology	2020-21
3	B.Tech		III-II	18CE6T5B	Database Management System	2020-21
4	B.Tech		III-II	18CE6T5C	Alternative Engineering Source	2020-21
5	B.Tech		III-II	18CE6T5D	Disaster Management	2020-21
6	B.Tech		III-II	18CE6T5E	Fundamentals Of Liquefied Natural Gas	2020-21
7	B.Tech		III-II	18CE6T5F	Green Buildings	2020-21
8	B.Tech		III-II	18CE6I1	Internship & Summer Training	2020-21
9	B.Tech		I-I	20ES1T3	Electrical Circuit Analysis	2020-21
10	B.Tech		I-I	20ES1T5	Engineering Graphics And Design	2020-21
11	B.Tech		I-II	20ES2T4	Python Programming	2020-21
12	B.Tech		III-I	18EE5L2	Control Systems & Simulation Laboratory	2020-21
13	B.Tech		III-II	18EE6T3	Switchgear And Protection	2020-21
14	B.Tech		III-II	18EC6T4	Linear Ic Applications	2020-21
15	B.Tech		III-II	18EE6L2	Power Electronics & Simulation Laboratory	2020-21
16	B.Tech	AR18	III-I	18ME5T1	I.C Engines & Gas Turbines	2020-21
17	B.Tech		III-I	18ME5T2	Theory Of Machines-Ii	2020-21
18	B.Tech		III-I	18ME5T3	Manufacturing Technology	2020-21
19	B.Tech		III-I	18ME5T5F	Industrial Applications Of Cad-Iii	2020-21
20	B.Tech		III-I	18ME5L4	Personality Development	2020-21
21	B.Tech		III-II	18ME6T3	Operations Research	2020-21
22	B.Tech		III-II	18ME6T5F	Industrial Applications Of Cad-Iv	2020-21
23	B.Tech		III-II	18MC6T5	Constitution Of India	2020-21
24	B.Tech		III-II	18ME6L3	Industrial Internship	2020-21
25	B.Tech		AR18	III-I	18EC5T1	Analog Ic Applications
26	B.Tech	III-I		18EC5T2	Control Systems	2020-21
27	B.Tech	III-I		18EC5L2	Analog Ic Applications Lab	2020-21
29	B.Tech	III-I		18EC5L3	Digital Signal Processing Lab	2020-21
30	B.Tech	III-I		18EC6T4	Application Oriented Internet Of Things	2020-21

31	B.Tech		III-II	18EC6T5	Open Elective	2020-21
32	B.Tech	AR-18	IV-I	18EC7L2	Microwave And Optical Communication Lab	2020-21
33	B.Tech		IV-I	18EC7T3	Radar Engineering	2020-21
34	B.Tech		IV-I	18EC7T6	Summer Training Program	2020-21
35	B.Tech		IV-II	18EC8T3	Embedded Systems	2020-21
36	B.Tech		III-I	18CS5T1	Web Technologies	2020-21
37	B.Tech	AR18	III-I	18CS5T2	Statistics With R Programming	2020-21
38	B.Tech		III-I	18CS5T3	Software Engineering	2020-21
39	B.Tech		III-I	18CS5T4	Computer Networks	2020-21
40	B.Tech		III-I	18CS5T5A	Compiler Design	2020-21
41	B.Tech		III-I	18CS5T5B	Data Analytics-3	2020-21
42	B.Tech		III-I	18CS5T5C	Cloud Computing-3	2020-21
43	B.Tech		III-I	18CS5T5D	Web And Mobile Development-3	2020-21
44	B.Tech		III-I	18CS5T5E	Cyber Security-3	2020-21
45	B.Tech		III-I	18CS5L1	Statistics With R Programming Lab	2020-21
46	B.Tech		III-I	18CS5L2	Computer Networks Lab	2020-21
47	B.Tech		III-I	18CS5L3	Web Technologies Lab	2020-21
48	B.Tech		III-I	18CS5T6	Professional Ethics & Intellectual Property Rights	2020-21
49	B.Tech		III-II	18CS6T1	Principle Of Programming Language	2020-21
50	B.Tech		III-II	18CS6T4	Object Oriented Analysis And Design Using Uml	2020-21
51	B.Tech		III-II	18CS6T5A	Tcp/Ip Protocols	2020-21
52	B.Tech		III-II	18CS6T5B	Data Analytics-4	2020-21
53	B.Tech		III-II	18CS6T5A	Cloud Computing-4	2020-21
54	B.Tech		III-II	18CS6T5A	Web And Mobile Development-4	2020-21
55	B.Tech		III-II	18CS6T5A	Cyber Security-4	2020-21
56	B.Tech		III-II	18CS6L1	Object Oriented Analysis And Design Using Uml Lab	2020-21
57	B.Tech	III-II	18CS6I1	Internship & Mini Project	2020-21	
58	B.Tech	I-II	20CS2T3	Data Structures Using C++	2020-21	
59	B.Tech	I-II	20CS2T4	Python-li	2020-21	
60	M. Tech	AR20	I-I	20PE1T3B	Power Quality And Custom Power Devices	2020-21
61	M. Tech		I-I	20PE1T3C	Programmable Logic Controllers & Applications	2020-21
62	M. Tech		I-I	20PE1T4B	Renewable Energy Technologies	2020-21
63	M. Tech		I-I	20PE1T4C	Hvdc Transmission And Flexible Ac Transmission Systems	2020-21
64	M. Tech		I-I	20PE1T5	Research Methodology And Ipr	2020-21
65	M. Tech		I-I	20PE1L1	Power Electronics Simulation Laboratory	2020-21

66	M. Tech		I-I	20PE1L2	Power Converters Laboratory	2020-21
67	M. Tech		I-I		Audit Course – 1	2020-21
68	M. Tech		I-II	20PE2T2	Power Electronic Control Of Electrical Drives	2020-21
69	M. Tech		I-II	20PE2T3A	Control & Integration Of Renewable Energy Systems	2020-21
70	M. Tech		I-II	20PE2T3B	Hybrid Electric Vehicles	2020-21
71	M. Tech		I-II	20PE2T3C	Digital Control Systems	2020-21
72	M. Tech		I-II	20PE2T4A	Advanced Digital Signal Processing	2020-21
73	M. Tech		I-II	20PE2T4B	Applications Of Power Converters	2020-21
74	M. Tech		I-II	20PE2T4C	Microcontrollers	2020-21
75	M. Tech		I-II	20PE2L1	Electric Drives Simulation Laboratory	2020-21
76	M. Tech		I-II	20PE2L2	Electric Drives Laboratory	2020-21
77	M. Tech		I-II		Mini Project With Seminar	2020-21
78	M. Tech		I-II		Audit Course – 2	2020-21
79	M TECH	AR20	I-I	20VLES1A1	Audit Course-I	2020-21
80	M TECH		I-II	20VLES2A1	Audit Course-II	2020-21
81	MCA	AR18	III-I	18MC5T1	Big Data Analytics	2020-21
82	MCA		III-I	18MC5T2	Cyber Security	2020-21
83	MCA		III-I	18MC5T3	Python Programming	2020-21
84	MCA		III-I	18MC5T4A	Software Testing Methodologies	2020-21
85	MCA		III-I	18MC5T4B	Computer Forensics	2020-21
86	MCA		III-I	18MC5T4C	E-Commerce	2020-21
87	MCA		III-I	18MC5L1	Big Data Analytics Lab	2020-21
88	MCA		III-I	18MC5L2	Software Testing Methodologies Lab	2020-21
89	MCA		III-I	18MC5L3	Python Programming Lab	2020-21
90	MCA		III-I	18MC6S1	Seminar On Project	2020-21
91	MCA	AR20	III-I	18MC6P1	Dissertation/Thesis	2020-21
92	MCA		I-I	20MC2301	Computer Organization	2020-21
93	MCA		I-I	20MC2305	Web Design And Development	2020-21
94	MCA		I-I	20MC2353	Web Design And Development Lab	2020-21
95	MCA		I-I	20MC5354	Personality Development Course	2020-21
96	MCA		I-II	20MC2404	Mobile Application Development	2020-21
97	MCA		I-II	20MC2405	Industrial Management	2020-21
98	MCA		I-II	20MC2453	Mobile Application Development Lab	2020-21
99	MCA		I-II	20MC4454	Seminar	2020-21
100	MBA		AR-20	I-I	20AJMB101	Management And Organizational Behaviour

101	MBA
102	MBA
103	MBA
104	MBA
105	MBA
106	MBA
107	MBA
108	MBA

I-I	20AJMB105	Legal And Business Environment	2020-21
I-I	20AJMB106	Business Communication And Soft Skills	2020-21
I-I	20AJMB107	Cross Cultural Management Rural Innovation Projects	2020-21
I-II	20AJMB206A	Project Management Technology	2020-21
I-II	20AJMB206B	Management Lean Management	2020-21
I-II	20AJMB206C	Database Management System	2020-21
I-II	20AJMB207	IT-Lab 2(Programming R)	2020-21
I-II	20AJMB302	Operations Research	2020-21



IQAC

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B. Tech. Course Structure – Computer Science & Engineering

II Year I Semester

S. No	Course Code	Course	L	T	P	C
1	18CS3T1	Unix and Shell Programming	3	1	--	3
2	18CS3T2	Mathematical Foundations for Computer Science	3	1	--	3
3	18CS3T3	Computer Organisation	3	1	--	3
4	18CS3T4	Java Programming	3	1	--	3
5	Elective I		3	1	--	3
	18CS3T5A	Digital Logic Design				
	18CS3T5B	Data Analytics-1				
	18CS3T5C	Cloud Computing-1				
	18CS3T5D	Web and Mobile Development-1				
18CS3T5E	Cyber Security-1					
6	18CS3T6	Data structures through c++	3	1	--	3
7	18CS3L1	Data Structures through C++ Lab	--	--	3	1
8	18CS3L2	Java Programming Lab	--	--	3	1
9	18CS3L3	Unix and Shell Programming Lab	3	--	--	2
Total Credits			20			

L-Lecture; T-Tutorial; P-Practical; C-Credits;

B. Tech. Course Structure – Computer Science & Engineering

II Year II Semester

S. No	Course Code	Course	L	T	P	C
1	18CS4T1	Python Programming	3	1	--	3
2	18CS4T2	Advanced Data Structures	3	1	--	3
3	18CS4T3	Database Management Systems	3	1	--	3
4	18CS4T4	Formal Languages and Automata Theory	3	1	--	3
5	Elective II		3	1	--	3
	18CS4T5A	Computer Graphics				
	18CS4T5B	Data Analytics-2				
	18CS4T5C	Cloud Computing-2				
	18CS4T5D	Web and Mobile Development-2				
18CS4T5E	Cyber Security-2					
6	18CS4T6	Operating Systems	3	1	--	3
7	18CS4L1	Advanced Data Structures Lab	--	--	3	1
8	18CS4L2	Python Programming Lab	--	--	3	1
9	18CS4L3	Database Management Systems Lab	3	--	--	2
Total Credits			20			

B. Tech. Course Structure – Computer Science & Engineering

III Year I Semester

S. No	Course Code	Course	L	T	P	C
1	18CS5T1	Web Technologies	3	1	--	3
2	18CS5T2	Statistics with R Programming	3	1	--	3
3	18CS5T3	Software Engineering	3	1	--	3
4	18CS5T4	Computer Networks	3	1	--	3
Elective III						
5	18CS5T5A	Compiler Design	3	1	--	3
	18CS5T5B	Data Analytics-3				
	18CS5T5C	Cloud Computing-3				
	18CS5T5D	Web and Mobile Development-3				
	18CS5T5E	Cyber Security-3				
6	18CS5L1	Statistics with R Programming Lab	--	--	3	1
7	18CS5L2	Computer Networks Lab	--	--	3	1
8	18CS5L3	Web Technologies Lab	--	--	3	1
9	18CS5T6	Professional Ethics & Intellectual Property Rights	3	--	--	2
Total Credits			20			

L-Lecture; T-Tutorial; P-Practical; C-Credits;

B. Tech. Course Structure – Computer Science & Engineering

III Year II Semester

S. No	Course Code	Course	L	T	P	C
1	18CS6T1	Principles of Programming Languages	3	1	--	3
2	18CS6T2	Design and Analysis of Algorithms	3	1	--	3
3	18CS6T3	Data Warehousing and Data Mining	3	1	--	3
4	18CS6T4	Object Oriented Analysis and Design using UML	3	1	--	3
Elective III						
5	18CS6T5A	TCP/IP Protocols	3	1	--	3
	18CS6T5B	Data Analytics-4				
	18CS6T5C	Cloud Computing-4				
	18CS6T5D	Web and Mobile Development-4				
	18CS6T5E	Cyber Security-4				
6	18CS6L1	Object Oriented Analysis and Design using UML Lab	--	--	3	1
7	18CS6L2	Data Mining Lab	--	--	3	1
8	18CS6I1	Internship & Mini Project	--	--	--	2
Total Credits			20			

B. Tech. Course Structure – Computer Science & Engineering

IV Year I Semester

S. No	Course Code	Course	L	T	P	C
1	18CS7T1	Cryptography and Network Security	3	1	--	3
2	18CS7T2	Hadoop and Big Data	3	1	--	3
3	18CS7T3	Artificial Intelligence	3	1	--	3
4	18CS7T4	Adhoc & Sensor Networks	3	1	--	3
Elective IV						
5	18CS7T5A	Mobile Computing	3	1	--	3
	18CS7T5B	Cloud Computing				
	18CS7T5C	Forensic Computing				
6	18CS7L1	Hadoop & Big Data Lab	--	--	3	1
7	18CS7L2	J2ME & Android Programming Lab	--	--	3	1
8						
Total Credits			20			

B. Tech. Course Structure – Computer Science & Engineering

IV Year II Semester

S. No	Course Code	Course	L	T	P	C
1	18CS8T1	Distributed Systems	3	1	--	3
2	18CS8T2	Machine Learning	3	1	--	3
3	18CS8T3A	Natural Language Processing	3	1	--	3
	18CS8T3B	Natural Language Processing				
	18CS8T3C	Deep learning				
4	18CS8T4	Management science				
5		Project Work				8
Total Credits			20			

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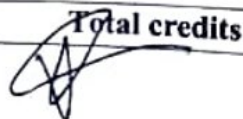
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**II Year I Semester**

S:No	Course Code	Course	L	T	P	C
1	18EC3T1	Signals & Systems	3	1	--	3
2	18EC3T2	Electronic Devices and Circuits	3	1	--	3
3	18EC3T3	Probability Theory and Random Process ✓	3	1	--	3
4	18EC3T4	Switching Theory and Logic Design	3	1	--	3
5	ELECTIVE-I		3	1		3
	18EC3T5A	Managerial Economics & Financial Analysis				
	18EC3T5B	Data Analysis-I ✓				
	18EC3T5C	Cloud computing-I ✓				
	18EC3T5D	Web and mobile development-I ✓				
	18EC3T5E	Cyber Security-I ✓				
6	18EC3T6	Network Theory ✓	3	1	--	3
7	18EC3L1	Electronics and Devices Circuits Lab	--	--	3	1
8	18EC3L2	Network Theory Lab ✓	--	--	3	1
Total credits			20			

II Year II Semester

S:No	Course Code	Course	L	T	P	C
1	18EC4T1	Electromagnetic Theory and Transmission Lines ✓	3	1	--	3
2	18EC4T2	Electronic Circuit Analysis	3	1	--	3
3	18EC4T3	Analog & Digital Communication ✓	3	1	--	3
4	18EC4T4	Pulse and Digital Circuits	3	1	--	3
5	ELECTIVE-II		3	1		3
	18EC4T5A	Management Science				
	18EC4T5B	Data Analysis-II ✓				
	18EC4T5C	Cloud computing-II ✓				
	18EC4T5D	Web and mobile development-II ✓				
	18EC4T5E	Cyber Security-II ✓				
6	18EC4L1	Pulse and Digital Circuits Lab ✓	3	--	--	2
7	18EC4L2	Analog Communication Lab	--	--	3	1
8	18EC4L3	Electronic Circuits Analysis Lab	--	--	3	1
9	18EC4T6	Personality development ✓	--	--	3	1
Total credits			20			


 Total credits





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III Year I Semester

S:No	Course Code	Course	L	T	P	C
1	18EC5T1	Analog IC Applications ✓	3	--	--	3
2	18EC5T2	Control Systems ✗	3	--	--	3
3	18EC5T3	Antenna and wave propagation	3	1	--	3
4	18EC5T4	Digital Signal Processing	3	1	--	3
5	ELECTIVE-III		3	1		3
	18EC5T5	Biomedical Engineering				
	18EC5T5	Data Analysis-III				
	18EC5T5	Cloud computing-III ✓				
	18EC5T5	Web and mobile development-III ✓				
	18EC5T5	Cyber Security-III ✓				
6	18EC5L1	Digital Communication Lab	1	--	--	1
7	18EC5L2	Analog IC Applications Lab ✓	--	--	3	1
8	18EC5L3	Digital Signal Processing Lab ✓	--	--	3	1
9	18EC5T6	Professional Ethics and Human Values	--	--	3	1
Total credits			19			

III Year II Semester

S:No	Course Code	Course	L	T	P	C
1	18EC6T1	Microwave Engineering	3	1	--	3
2	18EC6T2	Microprocessors and Microcontrollers	3	1	--	3
3	18EC6T3	Digital IC Applications	3	1	--	3
4	18EC6T4	Application Oriented Internet of Things ✗	4	1		3
5	Open Elective		3	1		3
	18EC6T5A	OOPs Through JAVA				
	18EC6T5B	Computer Architecture and Organization				
	18EC6T5C	Cryptography and Network Security				
	18EC6T5D	WEB AND MOBILE DEVELOPMENT				
6	18EC6T6	IPR & Patents	3	--	--	3
7	18EC6L1	Microprocessors and Microcontrollers Lab	--	--	3	1
8	18EC6L2	Digital IC Application Lab	--	--	3	1
Total credits			20			



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IV Year I Semester

S:No	Course Code	Course	L	T	P	C
1	18EC7T1	VLSI Design	3	1	-	3
2	18EC7T2	Digital Image Processing	3	1	-	3
3	18EC7T3	Radar Engineering	3	1	-	3
4	18EC7T4	Optical Communication	3	1	-	3
5	Elective IV		3	1	-	3
	18EC7T5A	Robotics				
	18EC7T5B	Satellite Communication				
	18EC7T5C	Scripting Languages				
	18EC7T5D	Advanced Wireless Sensor Networks				
6	18EC7L1	VLSI Design Lab	-	-	3	1
7	18EC7L2	Microwave and Optical Communication Lab	-	-	3	1
8	18EC7T6	Summer Training Program	-	-	-	1
9	18EC7T7	Seminar	-	-	-	0
Total credits			18			

IV Year II Semester

S:No	Course Code	Course	L	T	P	C
1	18EC8T1	Cellular and Mobile Communication	3	1	-	3
2	18EC8T2	Electronics Measurements and Instrumentation	3	1	-	3
3	18EC8T3	Embedded Systems ✗	3	1	-	3
4	Elective V		3	1	-	4
	18EC8T4A	Speech and Audio Processing ✓				
	18EC8T4B	Television Engineering ✗				
	18EC8T4C	Artificial Neural Networks ✗				
	18EC8T4D	Computer Network ✗				
5	18EC8L1	**Project Work	-	-	10	8
Total credits			21			

L-Lecture; T-Tutorial; P- Practical; C-Credits

One Lecture/Tutorial instructional span is 50 minutes

Total Course Credits → 21+21+20+20+19+20+18+21=160

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B. Tech. Course Structure – Mechanical Engineering (AR-18)

I Semester

S. No	Course Code	Course	L	T	P	C
1	18BS1T1	English – I	3	--	--	2
2	18BS1T2	Mathematics – I	3	1	--	4
3	18BS1T3	Engineering Chemistry	4	--	--	3
4	18ME1T4	Engineering Mechanics	3	1	--	3
5	18CS1T5	Computer Programming	4	--	--	3
6	18BS1T6	Environmental Science	4	--	--	3
7	18HS1L1	English Language Communication Skills – I	--	--	3	1
8	18HS1L2	Engineering chemistry Lab	--	--	3	1
9	18CS1L3	Computer Programming Lab	--	--	3	1
Total Credits			21			

II Semester

S. No	Course Code	Course	L	T	P	C
1	18BS2T1	English – II	3	--	--	2
2	18BS2T2	Mathematics – III	4	1	--	4
3	18BS2T3	Mathematics – II	4	--	--	3
4	18BS2T4	Basic Electrical & Electronics Engineering	4	--	--	3
5	18BS2T5	Engineering Physics	4	--	--	3
6	18ME2T5	Engineering Drawing-I	2	--	3	3
7	18BS2L1	English Language Communication Skills – II	--	--	3	1
8	18HS2L2	Engineering Physics Lab	--	--	3	1
9	18ME2L3	Engineering & IT work shop	--	--	3	1
10	18BS2L4	Engineering Physics Virtual Labs	--	--	2	--
Total Credits			21			

III Semester

S. No	Course Code	Course	L	T	P	C
1	18ME3T1	Metallurgy & Materials Science	4	--	--	3
2	18ME3T2	Engineering Drawing-II	2	--	4	4
3	18ME3T3	Thermodynamics	3	1	--	3
4	18ME3T4	Mechanics of Solids	3	1	--	3
Elective- I						
5	18ME3T5A	Engineering Economics	3	--	--	3
	18CS3T5B	Data Analysis-I				
	18CS3T5C	Cloud Computing-I				
	18CS3T5D	Web and Mobile Development –I				
	18CS3T5E	Cyber Security-I				
	18CE3T5F	Industrial applications of CAD-I				
6	18ME3L1	Electrical & Electronics Engineering Lab	--	--	3	1
7	18ME3L2	Mechanics of Solids & Metallurgy Lab	--	--	3	1
8	18ME3L3	Auto CAD-LAB	--	--	3	1
Total Credits			19			

IV Semester

S. No	Course Code	Course	L	T	P	C
1	18ME4T1	Fluid Mechanics & Hydraulic Machines	3	1	--	3
2	18ME4T2	Theory of Machines-I	4	--	--	3
3	18ME4T3	Manufacturing Processes	3	1	--	3
4	18ME4T4	Applied Thermodynamics	3	1	--	3
5	Elective- II		3	1	--	3
	18ME4T5A	Machine Drawing				
	18CS4T5B	Data Analytics-II				
	18CS4T5C	Cloud Computing-II				
	18CS4T5D	Web and Mobile Development -II				
	18CS4T5E	Cyber Security-II				
	18CE4T5F	Industrial applications of CAD-II				
6	18ME4T6	Design of Machine Members -I	4	1	--	4
7	18ME4L1	Manufacturing Processes Lab	--	--	3	1
8	18ME4L2	Fluid Mechanics & Hydraulic Machinery Lab	--	--	3	1
Total Credits			21			

V Semester

S. No	Course Code	Course	L	T	P	C
1	18ME5T1	I.C Engines & Gas Turbines	4	--	--	3
2	18ME5T2	Theory of Machines-II	3	1	--	3
3	18ME5T3	Manufacturing Technology	4	--	--	3
4	18ME5T4	Design of Machine Members-II	4	1	--	4
5	Elective - III		3	1	--	3
	18ME5T5A	Industrial Engineering and Management				
	18CS5T5B	Data Analytics-III				
	18CS5T5C	Cloud Computing-III				
	18CS5T5D	Web and Mobile Development -III				
	18CS5T5E	Cyber Security-III				
	18CE5T5F	Industrial applications of CAD-III				
6	Mandatory course	IPR&P	2	--	--	0
7	18ME5L1	Theory of Machines Lab	--	--	3	1
8	18ME5L2	Manufacturing Technology Lab	--	--	3	1
9	18ME5L3	Thermal Engineering Lab	--	--	3	1
10	18ME5L4	Personality Development	--	--	3	1
Total Credits			20			

VI Semester

S. No	Course Code	Course	L	T	P	C
1	18ME6T1	Instrumentation & Control Systems	4	--	--	3
2	18ME6T2	Metrology	4	--	--	3
3	18ME6T3	Operations Research	3	1	--	3
4	18ME6T4	Refrigeration & Air-conditioning	4	--	--	3
5	Elective - IV		3	1	--	3
	18ME6T5A	Green Engineering Systems				
	18CS6T5B	Data Analytics-IV				
	18CS6T5C	Cloud Computing-IV				
	18CS6T5D	Web and Mobile Development -IV				
	18CS6T5E	Cyber Security-IV				
	18CE6T5F	Industrial applications of CAD-IV				
6	18ME6T6	Heat Transfer	4	--	--	3
7	Mandatory course	Constitution of India	2	--	--	0
8	18ME6L1	Heat Transfer Lab	--	--	3	1
9	18ME6L2	Metrology & Instrumentation Lab	--	--	3	1
10	18ME6L3	Industrial Internship	--	--	3	1
Total Credits			21			

VII Semester

S. No	Course Code	Course	L	T	P	C
1	18ME7T1	Finite Element Methods	3	1	--	3
2	18ME7T2	Micro Electro Mechanical Systems	4	--	--	3
3	18ME7T3	CAD/CAM	4	--	--	3
4	18ME7T4	Power Plant Engineering	4	--	--	3
5	18ME7T5	Production Planning and control	4	--	--	3
6	Elective - V		4	--	--	3
	18ME7T6A	Computational Fluid Dynamics				
	18ME7T6B	Condition Monitoring				
	18ME7T6C	Additive Manufacturing				
7	18ME7P1	Project-1	--	--	3	1
8	18ME7L1	Simulation Lab	--	--	3	1
Total Credits			20			

VIII Semester

S. No	Course Code	Course	L	T	P	C
1	18ME8T1	Unconventional Machining Processes	4	--	--	3
2	18ME8T2	Automobile Engineering	4	--	--	3
3	Elective -VI		4	--	--	3
	18ME8T3A	Advanced Materials				
	18ME8T3B	Design for Manufacture				
	18ME8T3C	Gas Dynamics & Jet Propulsion				
4	Elective VII		4	--	--	3
	18ME8T4A	Thermal Equipment Design				
	18ME8T4B	Non Destructive Evaluation				
	18ME8T4C	Quality and Reliability Engineering				
5	18ME8P2	Project-2	--	--	10	5
Total Credits			17			

L-Lecture; T-Tutorial; P-Practical; C-Credits;

One Lecture/Tutorial instructional span is 50 minutes

Total Course Credits → 21+21+19+21+20+21+20+17 = 160



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

The program structure of the curriculum

The regulations versus batches is shown in table 2.5. The Curriculum for the regulations AR18, AR20 & AR22 are given below Table.

Table: Regulation followed Vs. Batch

S.NO.	Regulation	Batch
1	AR18	2018-22
2	AR18	2019-23
3	AR20	2020-24
4	AR20	2021-25
5	AR22	2022-26

The Curriculum for the regulations AR18 is given below in Table

Table : Structure of the Curriculum Regulation – for AR18

I B. TECH - I Semester

S. No	Subject Code	Subject	L	T	P	C
1	18BS1T1	English - I	3	--	--	2
2	18BS1T2	Mathematics - I	4	1	--	4
3	18BS1T3	Engineering Chemistry	3	1	--	3
4	18ME1T4	Engineering Mechanics	3	1	--	3
5	18CS1T5	Computer Programming	3	1	--	3
6	18BS1T6	Environmental Studies	3	1	--	3
7	18BS1L1	English- Communication Skills Laboratory - I	--	--	3	1
8	18HS1L2	Engineering Chemistry Laboratory	--	--	3	1
9	18CS1L3	Computer Programming Laboratory	--	--	3	1
Total Credits			21			

I B. TECH - II Semester

S. No	Subject Code	Subject	L	T	P	C
1	18BS2T1	English - II	3	--	--	2
2	18BS2T2	Mathematics - III	4	1	--	4
3	18HS2T3	Mathematics - II (Mathematical Methods)	3	1	--	3
4	18EE2T4	Electrical Circuit Analysis - I	3	1	--	3
5	18BS2T5	Engineering Physics	3	1	--	3
6	18ME2T6	Engineering Drawing-I	2	--	4	3
7	18BS2L1	English - Communication Skills Laboratory - II	--	--	3	1
8	18HS2L2	Engineering Physics Laboratory	--	--	3	1
9	18ME2L3	Engineering Workshop & IT Workshop	--	--	3	1
10	18BS2L4	Applied / Engineering Physics - Virtual Labs- Assignments	--	--	2	0
Total Credits			21			

II B. TECH - I Semester

S. No	Subject Code	Subject	L	T	P	C
1	18EE3T1	Electrical Circuit Analysis - II	3	1	--	3
2	18EE3T2	Electrical Machines-I	3	1	--	3
3	18EE3T3	Electronic Devices & Circuits	3	1	--	3
4	18EE3T4	Electro Magnetic Fields	3	1	--	3
5	18EE3T5	Thermal and Hydro Prime Movers/ELECTIVE	3	1	--	3
		Cloud Computing-I	3	1	--	3
		Cyber security-I	3	1	--	3
		Data Analytics-I	3	1	--	3
		Web & Mobile App development-I	3	1	--	3
		CAD/CAM	3	--	--	3
6	18EE3T6	Power Systems-I	--	--	3	1
7	18EE3L1	Thermal and Hydro Laboratory	--	--	3	1
8	18EE3L2	Electrical Circuits Laboratory	Total Credits			20

II B. TECH - II Semester

S. No	Subject Code	Subject	L	T	P	C
1	18EE4T1	Electrical Measurements	3	1	--	3
2	18EE4T2	Electrical Machines-II	3	1	--	3
3	18EE4T3	Switching Theory and Logic Design	3	1	--	3
4	18EE4T4	Control Systems	3	1	--	3
5	18EE4T5	Managerial Economics & Financial Analysis	3	1	--	3
		Cloud Computing-II	3	1	--	3
		Cyber security-II	3	1	--	3
		Data Analytics-II	3	1	--	3
		Web & Mobile App development-II	3	1	--	3
6	18EE4T6	Power Systems -II	--	--	3	1
7	18EE4L1	Electrical Machines -I Laboratory	--	--	3	1
8	18EE4L2	Electronic Devices & Circuits Laboratory	Total Credits			20

III B. TECH - I Semester

S. No	Subject Code	Subject	L	T	P	C
1	18EE5T1	Power Electronics	3	1	--	3
2	18EE5T2	Power System Analysis	3	1	--	3
3	18EE5T3	Signals and Systems	3	1	--	3
4	18EE5T4	Pulse & Digital Circuits	3	1	--	3
5	18EE5T5	Management Science	3	1	--	3
		Cloud Computing-III	3	1	--	3
		Cyber security-III	3	1	--	3
		Data Analytics-III	3	1	--	3
		Web & Mobile App development-III	3	--	--	1
6	18EE5T6	IPR & Patents	--	--	3	1
7	18EE5L1	Electrical Machines-II Laboratory	--	--	3	1
8	18EE5L2	Control Systems & Simulation Laboratory	--	--	3	1
9	18EE5L3	Electrical Measurements Laboratory	Total Credits			19

III B. TECH - II Semester

S. No	Subject Code	Subject	L	T	P	C
1	18EE6T1	Power Electronic Controllers & Drives	3	1	--	3
2	18EE6T2	Micro Processors and Micro controllers	3	1	--	3
3	18EE6T3	Switchgear and Protection	3	1	--	3
4	18EE6T4	Linear IC Applications	3	1	--	3
5	18EE6T5	Open Elective	3	--	--	2
6	18EE6T6	Data Structures	--	--	3	1
7	18EE6L1	Data Structures Laboratory	3	--	--	0
8	18EE6T7	Professional Ethics & Human Values	--	--	3	1
9	18EE6L2	Power Electronics & Simulation Laboratory	Total Credits			19

IV B. TECH - I Semester

S. No	Subject Code	Subject	L	T	P	C	
1	18EE7T1	Utilization of Electrical Energy	3	1	--	3	
2	18EE7T2	OOPS Through JAVA	3	1	--	3	
3	18EE7T3	Power System Operation & Control	3	--	--	3	
4	18EE7T4	Renewable Energy Sources	3	1	--	3	
5	18EE7T5	Elective - I (Instrumentation)	3	1	--	3	
6	18EE7T6	Elective - II (Cloud Computing)	--	--	3	1	
7	18EE7L1	Microprocessors & Microcontrollers Laboratory	--	--	3	1	
8	18EE7L2	Power Systems & Simulation Laboratory				20	
Total Credits						20	

IV B. TECH - II Semester

S. No	Course Code	Course	L	T	P	C	
1	18EE8T1	Digital Control Systems	3	1	--	3	
2	18EE8T2	HVDC Transmission & FACTS	3	1	--	3	
3	18EE8T3	Electrical Distribution Systems Planning & Automation	3	--	--	3	
4	18EE8T4	Elective - III (Power Quality)	3	1	--	3	
5	18EE8S1	Seminar	--	2	--	0	
5	18EE8P1	Project	--	--	--	08	
Total Credits						20	

List of Professional Electives

S. No	Subject Code	Subject	L	T	P	C
Professional Elective - I						
1	18EE7T5A	Electrical Machine Modelling and Analysis	3	1	--	3
2	18EE7T5B	Advanced Control Systems	3	1	--	3
3	18EE7T5C	Programmable Logic Controllers & Applications	3	1	--	3
4	18EE7T5D	Instrumentation	3	1	--	3
Professional Elective - II						
1	18EE7T6A	Optimization Techniques	3	1	--	3
2	18EE7T6B	Robotics	3	1	--	3
3	18EE7T6C	Special Electrical Machines	3	1	--	3
Professional Elective - III						
1	18EE8T4A	High Voltage Engineering	3	1	--	3
2	18EE8T4B	Power Quality	3	1	--	3
3	18EE8T4C	Power System D regulations	3	1	--	3

List of open Electives

S. No	Subject Code	Subject	L	T	P	C
Open Elective - I						
1	18CS5T5A	Cloud Computing-IV	3	1	--	3
2	18CS5T5B	Cyber security-IV	3	1	--	3
3	18CS5T5C	Data Analytics-IV	3	1	--	3
4	18CS5T5D	Web & Mobile App development-IV	3	1	--	3
5	18CS5T5E	Unix and Shell Programming	3	1	--	3
6	18EC5T5F	VLSI DESIGN	3	1	--	3
7	18CS5T5G	Neural Networks & Fuzzy Logic	3	1	--	3
8	18EE5T5H	Energy Audit and Conservation & Management	3	1	--	3

Table: Curriculum Components for the regulation AR18 is given below.

Program Educational Objectives – CE

PEO-1	Pursue successful careers or higher studies in civil engineering with morals and ethics through their strong foundation in mathematics, science and engineering
PEO-2	Analyze and design appropriate solutions for socially relevant problems by using current engineering techniques and tools
PEO-3	Engage in professional development through effective communication, team work and lifelong learning

B. Tech. Course Structure – Civil Engineering

I Semester

S. No	Course Code	Course	L	T	P	C
1	18BS1T1	English – I	3	-	--	2
2	18BS1T2	Mathematics - I	4	1	--	4
3	18BS1T3	Engineering Chemistry	4	-	--	3
4	18BS1T4	Engineering Mechanics	4	-	--	3
5	18BS1T5	Computer Programming	4	-	--	3
6	18BS1T6	Environmental Studies	4	-	--	3
7	18BS1L1	English- Communication Skills Laboratory - I	-	--	3	1
8	18BS1L2	Engineering Chemistry Laboratory	-	--	3	1
9	18BS1L3	Computer Programming Laboratory	-	--	3	1
Total Credits			21			

II Semester

S.NO	Course Code	Course	L	T	P	C
1	18BS2T1	English – II	3	-	--	2
2	18BS2T2	Mathematics - III	4	1	--	4
3	18HS2T3	Mathematics - II	4	-	--	3
4	18CE2T4	Elements of Mechanical Engineering	4	--	--	3
5	18BS2T5	Engineering Physics	4	-	-	3
6	18ME2T6	Engineering Drawing	4	-	4	3
7	18BS2L1	English - Communication Skills Laboratory - II	-	--	3	1
8	18HS2L2	Engineering Physics Laboratory	-	--	3	1
9	18ME2L3	Engineering Workshop & IT Workshop	-	--	3	1
10	18BS2L4	Engineering Physics – Virtual Labs	-	--	2	--
Total Credits			21			

III Semester

S. No	Course Code	Course	L	T	P	C
1	18CE3T1	Probability & Statistics	3	1	--	3
2	18CE3T2	Basic Electrical and Electronics Engineering	3	1	--	3
3	18CE3T3	Strength of Materials - I	3	1	--	3
4	18CE3T4	Building Materials and Construction	3	1	--	3
5	18CE3T5	Surveying	3	1	--	3
6	18CE3T6	Fluid Mechanics	3	1	--	3
7	18CE3L1	Surveying Field work - I	--	--	3	1
8	18CE3L2	Strength of Materials Laboratory	--	--	3	1
9	18CE3T7	Managerial Economics and Real Estate Fundamentals	2	--	--	1
Total Credits			21			

IV Semester

S. No	Course Code	Course	L	T	P	C
1	18CE4T1	Building Planning and Drawing	3	1	--	3
2	18CE4T2	Strength of Materials - II	3	1	--	3
3	18CE4T3	Hydraulics and Hydraulic Machinery	3	1	--	3
4	18CE4T4	Concrete Technology	3	1	--	3
5	18CE4T5	Structural Analysis - I	3	1	--	3
6	18CE4T6	Transportation Engineering - I	3	1	--	3
7	18CE4L1	FM & HHM Laboratory	--	--	3	1
8	18CE4L2	Surveying Field work - II	--	--	3	1
9	18CE4T7	Professional Ethics and Human Values	1	--	--	1
Total Credits			21			

V Semester

S. No	Course Code	Course	L	T	P	C
1	18CE5T1	Management Science & Financial Analysis	3	1	--	3
2	18CE5T2	Engineering Geology	3	1	--	3
3	18CE5T3	Structural Analysis - II	3	1	--	3
4	18CE5T4	Design and Drawing of Reinforced Concrete Structures	3	1	--	3
5	18CE5T5	Transportation Engineering - II	3	1	--	3
6	18CE5L1	Concrete Technology Laboratory	--	--	3	1
7	18CE5L2	Engineering Geology Laboratory	--	--	3	1
8	18CE5L3	Transportation Engineering Laboratory	--	--	3	1
9	18CE5T6	Personality Development	2	--	--	1
Total Credits			19			

VI Semester

S. No	Course Code	Course	L	T	P	C
1	18CE6T1	Design and Drawing of Steel Structures	3	1	--	3
2	18CE6T2	Geotechnical Engineering - I	3	1	--	3
3	18CE6T3	Environmental Engineering - I	3	1	--	3
4	18CE6T4	Water Resources Engineering - I	3	1	--	3
5	18CE6T5	Open Elective	3	1	--	3
6	18CE6L1	Geotechnical Engineering Laboratory	--	--	3	1
7	18CE6L2	Environmental Engineering Laboratory	--	--	3	1
8	18CE6L3	Computer Aided Engineering Laboratory	--	--	3	1
9	18CE6I1	Internship & Summer Training	--	--	--	1
Total Credits			19			

VII Semester

S. No	Course Code	Course	L	T	P	C
1	18CE7T1	Environmental Engineering - II	3	1	--	3
2	18CE7T2	Water Resources Engineering - II	3	1	--	3
3	18CE7T3	Geotechnical Engineering - II	3	1	--	3
4	18CE7T4	Remote Sensing and GIS Applications	3	1	--	3
5	18CE7T5	Elective - I	3	1	--	3
6	18CE7T6	Elective - II	3	1	--	3
7	18CE7L1	CAD and GIS Laboratory	--	--	3	1
8	18CE7L2	Irrigation Design and Drawing	--	--	3	1
9	18CE7T7	IPR & Patents	2	--	--	--
Total Credits			20			

VIII Semester

S. No	Course Code	Course	L	T	P	C
1	18CE8T1	Estimation Specification and Contracts	3	1	--	3
2	18CE8T2	Construction Technology and Management	3	1	--	3
3	18CE8T3	Pre-Stressed Concrete	3	1	--	3
4	18CE8T4	Elective - III	3	1	--	3
5	18CE8P1	Project Work	--	--	12	6
Total Credits			18			

Open Elective		Elective - I	
18CE6T5A	Electronic Instrumentation & Sensor Technology	18CE7T4A	Finite Element Methods
18CE6T5B	Database Management System	18CE7T4B	Ground Improvement Techniques
18CE6T5C	Alternative Engineering Source	18CE7T4C	Tall Buildings
18CE6T5D	Disaster Management	18CE7T4D	Urban Hydrology
18CE6T5E	Fundamentals of Liquefied Natural Gas	18CE7T4E	Traffic Engineering
18CE6T5F	Green Buildings		

Elective - II		Elective - III	
18CE7T5A	Advanced Structural Analysis	18CE8T3A	Bridge Engineering
18CE7T5B	Advanced Foundation Engineering	18CE8T3B	Soil Dynamics and Foundations
18CE7T5C	Environmental Impact Assessment and Management	18CE8T3C	Solid & Hazardous Waste Management
18CE7T5D	Ground Water Development	18CE8T3D	Water Resource Systems Planning
18CE7T5E	Pavement Analysis and Design	18CE8T3E	Urban Transportation Planning Engineering

L-Lecture; T-Tutorial; P-Practical; C-Credits;

One Lecture/Tutorial Instructional span is 50 minutes

Total Course Credits → 21+21+21+21+19+19+20+18 = 160

AR-18-MCA

III Semester

SNO	Subject code	Subject Title	T	P
1	18MC3T1	THEORY OF COMPUTATIONS	4	--
2	18MC3T2	COMPUTER NETWORKS	4	--
3	18MC3T3	SOFTWARE ENGINEERING	4	--
4	18MC3T4	ADVANCED JAVA & WEB TECHNOLOGIES	4	--
5	18MC3T5	DESIGN AND ANALYSIS OF ALGORITHMS	4	--
6	18MC3L1	ADVANCED JAVA & WEB TECHNOLOGIES LAB	--	3
7	18MC3L2	SHELL SCRIPTING LAB	--	3
8	18MC3L3	COMPUTER NETWORKS LAB	--	3

IV Semester

SNO	Subject code	Subject Title	T	P
1	18MC4T1	OBJECT ORIENTED ANALYSIS AND DESIGN	4	--
2	18MC4T2	COMPILER DESIGN	4	--
3	18MC4T3	DATA WAREHOUSING AND MINING	4	--
4	----	ELECTIVE-1	4	--
5	----	ELECTIVE-2	4	--
6	18MC4L1	CLOUD COMPUTING LAB	--	3
7	18MC4L2	DATA WAREHOUSING AND MINING LAB	--	3
8	18MC4L3	OBJECT ORIENTED ANALYSIS AND DESIGN LAB	--	3

V Semester

SNO	Subject code	Subject Title	T	P
1	18MC5T1	BIG DATA ANALYTICS	4	--
2	18MC5T2	CYBER SECURITY	4	--
3	18MC5T3	PYTHON PROGRAMMING	4	--
4	----	ELECTIVE-3	4	--
5	----	ELECTIVE-4	4	--
6	18MC5L1	BIG DATA ANALYTICS LAB	--	3
7	18MC5L2	SOFTWARE TESTING LAB	--	3
8	18MC5L3	PYTHON PROGRAMMING LAB	--	3

VI Semester

SNO	Subject code	SUBJECT
1	18MC6S1	SEMINAR ON PROJECT
2	18MC6P1	DISSERTATION/ THESIS

Elective: 01

sno	Subject code	Subject Title
1	18MC4T4A	MOBILE COMPUTING
2	18MC4T4B	HUMAN COMPUTER INTERACTION
3	18MC4T4C	CLOUD COMPUTING

Elective: 02

sno	Subject code	Subject Title
1	18MC4T5A	SOFTWARE PROJECT MANAGEMENT
2	18MC4T5B	ARTIFICIAL INTELLIGENCE
3	18MC4T5C	EMBEDDED SYSTEMS

Elective: 03

sno	Subject code	Subject Title
1	18MC5T4A	SOFTWARE TESTING METHODOLOGIES
2	18MC5T4B	COMPUTER FORENSICS
3	18MC5T4C	E-COMMERCE

Elective: 04

sno	Subject code	Subject Title
1	18MC5T5A	INTERNET OF THINGS
2	18MC5T5B	MULTIMEDIA APPLICATION DEVELOPMENT
3	18MC5T5C	NETWORK PROGRAMMING

Ist YEAR**I-SEMESTER**

S.No	Course Code	course	Marks	L	T	P	C
1	20AJMB101	Management and Organizational Behavior	100	4	0	0	4
2	20AJMB102	Managerial Economics	100	4	0	0	4
3	20AJMB103	Accounting for Managers	100	4	0	0	4
4	20AJMB104	Quantitative Analysis for Business Decisions	100	4	0	0	4
5	20AJMB105	Legal and Business Environment	100	4	0	0	4
6	20AJMB106	Business Communication and Soft skills	100	2	0	2	4
7	20AJMB107	Cross Cultural Management Rural Innovation projects	100	4	0	0	4
	Open Elective	MOOCs : SWAYAM/NPTEL- Related to Management Courses other than listed courses in the syllabus					
8	20AJMB108	Business Communication and Soft skills Lab	50	0	0	2	2
9	20AJMB109	Information Technology – Lab1(Spreadsheet and Tally)	50	0	0	2	2
Total			800	28	0	2	32

II SEMESTER

S.No	Course Code	Courses	Marks	L	T	P	C
1	20AJMB201	Financial Management	100	4	0	0	4
2	20AJMB202	Human Resource Management	100	4	0	0	4
3	20AJMB203	Marketing Management	100	4	0	0	4
4	20AJMB204	Operations Management	100	4	0	0	4
5	20AJMB205	Business Research Methods	100	4	0	0	4
6	20AJMB206	Project Management Technology Management Lean Management Database Management System	100	4	0	0	4
	Open Elective						
7	20AJMB207	IT-lab 2(Programming R)	50	0	0	2	2
Total			650	24	0	2	26

IInd YEAR**III
SEMESTER**

S.No	Course Code	Courses	Marks	L	T	P	C
1	20AJMB301	Strategic Management	100	4	0	0	4
2	20AJMB302	Operations Research	100	4	0	0	4
3	20AJMB3E1	Elective – 1	100	4	0	0	3
4	20AJMB3E2	Elective – 2	100	4	0	0	3
5	20AJMB3E3	Elective – 3	100	4	0	0	3
6	20AJMB3E4	Elective – 4	100	4	0	0	3
7	20AJMB303	Industrial Project based on Summer Internship	100	4	0	0	4
Total			700	28	0	0	24

IV SEMESTER

S.No	Course Code	Courses	Marks	L	T	P	C
1	20AJMB401	Supply Chain Management and Analytics	100	4	0	0	4
2	20AJMB402	Innovation and Entrepreneurship	100	4	0	0	4
3	20AJMB4E1	Elective – 5	100	4	0	0	3
4	20AJMB4E2	Elective – 6	100	4	0	0	3
5	20AJMB4E3	Elective – 7	100	4	0	0	3
6	20AJMB4E4	Elective – 8	100	4	0	0	3
7	20AJMB403	Comprehensive Viva- voce	50	0	0	0	2
Total Marks / Credits			650	28	0	0	22
			2800				104

*Comprehensive Viva is to verify the student's knowledge as a whole from which he was studied during the two year course work.

III SEMESTER
Human Resource Management

S. no	Course Code	SUBJECT TITLE
1	20AJMB3H1	Leadership and Change Management
2	20AJMB3H2	Performance Evaluation and Compensation Management
3	20AJMB3H3	Human Capital Management
4	20AJMB3H4	Manpower Planning, Recruitment, and Selection

IV SEMESTER
Human Resource Management

S. no	Course Code	SUBJECT TITLE
5	20AJMB4H1	Labor Welfare and employment laws
6	20AJMB4H2	International HRM
7	20AJMB4H3	Employee Relations and Engagement
8	20AJMB4H4	Human Resources Development

III SEMESTER FINANCE

S. no	Course Code	SUBJECT TITLE
1	20AJMB3F1	Investment Analysis and Portfolio Management
2	20AJMB3F2	Managing Banks and Financial Institutions
3	20AJMB3F3	Financial Markets and Services
4	20AJMB3F4	Taxation

IV SEMESTER FINANCE

S. no	Course Code	SUBJECT TITLE
5	20AJMB4F1	Financial Derivatives
6	20AJMB4F2	Global Financial Management
7	20AJMB4F3	Financial Risk Management
8	20AJMB4F4	Strategic Financial Management

III SEMESTER MARKETING

S. no	Course Code	SUBJECT TITLE
1	20AJMB3M1	Consumer Behavior
2	20AJMB3M2	Retail Management
3	20AJMB3M3	Customer Relationship Management
4	20AJMB3M4	Strategic Marketing Management

IV SEMESTER MARKETING

S. no	Course Code	SUBJECT TITLE
5	20AJMB4M1	Services Marketing
6	20AJMB4M2	Promotional and Distribution Management
7	20AJMB4M3	Green Marketing
8	20AJMB4M4	Advertising and Brand Management

III SEMESTER SYSTEMS

S. no	Course Code	SUBJECT TITLE
1	20AJMB3S1	Data Mining for Business Decisions
2	20AJMB3S2	Managing Software Projects
3	20AJMB3S3	Web Designing
4	20AJMB3S4	Business Analytics

IV SEMESTER SYSTEMS

S. no	Course Code	SUBJECT TITLE
5	20AJMB4S1	Big Data Analytics
6	20AJMB4S2	Enterprise Resource Planning
7	20AJMB4S3	Cyber Laws & Security
8	20AJMB4S4	Information Systems Audit

MCA 2020



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PARITALA(P), KANCHIKACHERLA(M), KRISHNA (D)-521 180(A. P.)

DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

SEMESTER - I

S. No.	Subject Code	Subject Title	L	T	P	C	CE	SE	Tot
1	20MCA2301	Computer Organization	3	-	-	3	40	60	100
2	20MCA2302	Database Management Systems	3	1	-	4	40	60	100
3	20MCA2303	Object Oriented Programming through Java	3	1	-	4	40	60	100
4	20MCA2304	Operating Systems	3	1	-	4	40	60	100
5	20MCA2305	Web Design and Development	3	1	-	4	40	60	100
6	20MCA2351	Database Management Systems Lab	-	-	3	1.5	40	60	100
7	20MCA2352	Object Oriented Programming through Java Lab	-	-	3	1.5	40	60	100
8	20MCA2353	Web Design and Development Lab	-	-	3	1.5	40	60	100
9	20MCA5354	Personality Development Course (Logical Reasoning and English for Professionals)	-	-	2	0	100	-	100
			15	4	11	23.5	420	480	900

L: Lecture

T: Tutorial

P: Practical

C: Credits

CE: Continuous Evaluation

SE: Semester End Evaluation

Tot: Total Marks

E. Sankar
PREPARED

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CHAIRMAN

P. Ramiah
MEMBER(S)
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DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

SEMESTER - II

S. No.	Subject Code	Subject Title	L	T	P	C	CE	SE	Tot
1	20MCA2401	Statistics with R	3	-	-	3	40	60	100
2	20MCA2402	Computer Networks	3	1	-	4	40	60	100
3	20MCA2403	Design and Analysis of Algorithms	3	1	-	4	40	60	100
4	20MCA2404	Mobile Application Development	3	1	-	4	40	60	100
5	20MCA2405	Industrial Management	3	-	-	3	40	60	100
6	20MCA2451	Statistics with R Lab	-	-	3	1.5	40	60	100
7	20MCA2452	Computer Networks Lab	-	-	3	1.5	40	60	100
8	20MCA2453	Mobile Application Development Lab	-	-	3	1.5	40	60	100
9	20MCA4454	Seminar	-	-	2	1	40	60	100
10	20MCA5455	Personality Development Course (Aptitude and Campus Recruitment Training)	-	-	2	0	100	-	100
			15	3	13	23.5	460	540	1000

L: Lecture

T: Tutorial

P: Practical

C: Credits

CE: Continuous Evaluation

SE: Semester End Evaluation

Tot: Total Marks

PREPARED

CHAIRMAN

MEMBER(S)

Subash.

AR-20 CSE M.Tech



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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

I-SEMESTER

S.No	Course Code	Courses	Category	L	T	P	C
1	20CP1T1	Program Core-1 Mathematical Foundations of Computer Science	PC	3	0	0	3
2	20CP1T2	Program Core-2 Advanced Data Structures & Algorithms	PC	3	0	0	3
Program Elective-1							
3	20CP1T3A	1. Big Data Analytics	PE	3	0	0	3
	20CP1T3B	2. Digital Image Processing					
	20CP13C	3. Advanced Operating Systems					
Program Elective-2							
4	20CP1T4A	1. Advanced Computer Networks ✓	PE	3	0	0	3
	20CP1T4B	2. Internet of Things ✓					
	20CP1T4C	3. Object Oriented Software Engineering ✓					
5	20CP1C1	Research Methodology and IPR ✓	CC			0	2
6	20CP1L1	Laboratory-1 Advanced Data Structures & Algorithms Lab	LB	0	0	4	2
7	20CP1L2	Laboratory-2 Advanced Computing Lab	LB	0	0	4	2
8	20CP1A1	Audit Course-1* ✓	AC	2	0	0	0
Total Credits							18

*Student has to choose any one audit course listed below.

II SEMESTER

S.No	Course Code	Courses	Cat	L	T	P	C
1	20CP2T1	(Program Core-3) Machine learning	PC	3	0	0	3
2	20CP2T2	(Program Core-4) MEAN Stack Technologies	PC	3	0	0	3
Program Elective-3							
3	20CP2T3A	Advanced Databases and Mining ✓	PE	3	0	0	3
	20CP2T3B	Ad Hoc & Sensor Networks ✓					
	20CP2T3C	Soft Computing ✓					
Program Elective-4							
4	20CP2T4A	1. Cloud Computing	PE	3	0	0	3
	20CP2T4B	2. Principles of computer security ✓					
	20CP2T4C	3. High Performance Computing ✓					
5	20CP2L1	Laboratory-3 Machine Learning with python lab ✓	LB	0	0	4	2
6	20CP2L2	Laboratory-4 MEAN Stack Technologies Lab ✓	LB	0	0	4	2
7		Mini Project with Seminar ✓	MP	2	0	0	2
8	20CP2A1	Audit Course-2* ✓	AC	2	0	0	0
Total Credits							18



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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

*Student has to choose any one audit course listed below.

Audit Course 1 & 2:

- | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> 1. English for Research Paper Writing 2. Disaster Management 3. Sanskrit for Technical Knowledge 4. Value Education III- | <ol style="list-style-type: none"> 5. Constitution of India 6. Pedagogy Studies 7. Stress Management by Yoga 8. Personality Development through Life Enlightenment Skills |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

SEMESTER

S.No	Course Code	Courses	Category	L	T	P	C
1	20CP3T1A	Program Elective-5 1. Deep Learning ✓	PE	3	0	0	3
	20CP3T1B	2. Social Network Analysis ✓					
	20CP3T1C	3. MOOCs-1 (NPTEL/SWAYAM) 12					
	20CP3T1D	4. Week Program related to the programme which is not listed in the course structure ✓					
2	20CP3T2A	Open Elective 1. MOOCs-2 (NPTEL/SWAYAM)-Any 12 Week Course on Engineering/ Management/ Mathematics offered by other than parent department	OE	3	0	0	3
	20CP3T2B	2. Course offered by other departments in the college ✓					
3	20CP3P1	Dissertation-I/ Industrial Project # ✓	PJ	0	0	20	10
Total Credits							16

#Students going for Industrial Project/Thesis will complete these courses through MOOCs

M. Tech. (CSE) IV SEMESTER							
S.No	Course Code	Courses	Category	L	T	P	C
1	20CP4P1	Dissertation-II	PJ	0	0	32	16
Total Credits							16

Open Electives offered by the Department of CSE

1. Python Programming
2. Principles of Cyber Security
3. Internet of Things
4. Machine Learning
5. Digital forensics
6. Next Generation Databases



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Amrita Sai Nagar, Paritala, Krishna District, Andhra Pradesh - 521 180
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M.TECH (VLSI & ES)

C-
I-5 = sub

I Semester

S. No.	Sub Code	Name of the Subject	L	T	P	C
1	20VLES1T1	Digital System Design	3	0	-	3
2	20VLES1T2	VLSI Technology and Design	3	0	-	3
3	20VLES1T3	CMOS Analog IC Design	3	0	-	3
4	20VLES1T4	Advanced Microcontrollers and Programmable Digital Signal Processors	3	0	-	3
5	20VLES1T5A	Elective I 1. Embedded -C 2. CMOS Digital IC Design 3. Soft Computing Techniques 4. Cyber Security	3	0	-	3
	20VLES1T5B					
	20VLES1T5C					
	20VLES1T5D					
6	20VLES1T6A	Elective II 1. Advanced Operating Systems 2. System on Chip Design 3. Network Security and Cryptography	2	0	0	2
	20VLES1T6B		3	0	-	3
	20VLES1T6C					
7	20VLES1L1	VLSI Laboratory	-	0	3	2
8	20VLES1A1	Audit Course-1	2	0	0	0
Total Credits						20

II Semester

S.No.	Sub Code	Name of the Subject	L	P	C	
1	20VLES2T1	Embedded System Design	4	-	3	
2	20VLES2T2	CMOS Mixed Signal Circuit Design	4	-	3	
3	20VLES2T3	Embedded Real Time Operating Systems	4	-	3	
4	20VLES2T4	Design For Testability	4	-	3	
5	20VLES2T5A	Elective III 1. DSP Processors & Architectures 2. Low Power VLSI Design 3. VLSI Signal Processing	4	-	-	3
	20VLES2T5B					
	20VLES2T5C					
6	20VLES2T6A	Elective IV 1. Micro Electro Mechanical Systems (MEMS) Design 2. CPLD and FPGA Architectures and Applications. 3. Semiconductor Memory Design and Testing.	-	-	4	2
	20VLES2T6B		4	-	-	3
	20VLES2T6C					
7	20VLES2L1	Embedded System Design Laboratory	-	3	2	
8	20VLES2A1	Audit Course-2	2	0	0	
Total Credits						20

SKU

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Head of the Department
Electronics and Communication Engineering
Amrita Sai Institute of Science and Technology
PARITALA (Post Office - Kakinada(M),
Krishna District - 521 180

MEMBER(S)
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S-2

III Semester

M.Tech (VLSI & ES)

S. No.		Subject	L	T	P	Credits
1	20VLES3T1A 20VLES3T1B 20VLES3T1C	1. IOT and its Applications ✓ 2. Artificial Intelligence 3. Hardware Software Co-Design	3	0	0	3
2	20VLES3T2A 20VLES3T2B 20VLES3T2C 20VLES3T2D 20VLES3T2E 20VLES3T2F	1. Business Analytics ✓ 2. Industrial Safety 3. Operations Research 4. Cost Management of Engineering Projects 5. Composite Materials 6. Waste to Energy	3	0	0	3
3	20VLES3T3	Research methodology and IPR ✓	2	0	0	2
4	20VLES3P4	Dissertation Phase - I / Industrial Project Work Part - I	-	-	-	10
		Total Credits				18

IV Semester

S. No.		Subject	L	T	P	Credits
1	20VLES4Proj	Dissertation Phase - I / Industrial Project Work Part - II	--	0	--	16
		Total Credits				16

*Students going for Industrial Project/Thesis will complete these courses through MOOCs

Audit Course 1 & 2

1. English for Research Paper Writing ✓
2. Disaster Management ✓
3. Sanskrit for Technical Knowledge
4. Value Education
5. Constitution of India ✓
6. Pedagogy Studies
7. Stress Management by Yoga
8. Personality Development through Life Enlightenment Skills

Head of the Department
Electronics and Communication Engineering
Amrita Sai Institute of Science and Technology
PARITALA (Post), Kanchikacharla (M),
Krishna District, A.P.

M. S. Prabhakar
MEMBER(S)
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DEPARTMENT OF CIVIL ENGINEERING
I- Semester

S.No	Course Name	Category	L	T	P	C	Marks
1	Theory of Elasticity	Core	3	0	--	3	100
2	Structural Dynamics	Core	3	0	--	3	100
3	Elective I	Elective	3	0	--	3	100
	a) Matrix Analysis of Structures						
	b) Analytical & Numerical Methods for Structural Engineering ✓						
	c) Design of RCC Foundations ✓						
4	Program Elective II	Elective	3	0	--	3	100
	a) Bridge Engineering						
	b) Repair and Rehabilitation of Structures						
	c) Advanced Reinforced Concrete Design ✓						
5	Advanced Concrete Technology ✓		2	0	0	2	100
6	Advanced Concrete Technology Laboratory ✓	Lab	-	--	4	2	100
7	Advanced Structural Engineering Laboratory	Lab	-	--	4	2	100
8	Audit Course -I ✓	Audit	2	0	0	0	
Total Credits /Marks						18	700

II- Semester

S.No.	Course Name	Category	L	T	P	C	Marks
1	Finite Element Methods in Structural Engineering	Core	3	0	--	3	100
2	Theory of Plates and Shells	Core	3	0	--	3	100
3	Elective III	Elective	3	0	--	3	100
	a) Stability of Structures						
	b) Advanced Steel Design ✓						
	c) Analysis of Offshore Structures ✓						
4	Elective IV	Elective	3	0	--	3	100
	a) Earthquake Resistant Design of Buildings						
	b) Precast and Prefabricated Structures ✓						
	c) Earth Retaining Structures						
5	Computer Aided Design Laboratory		--	--	4	2	100
6	Structural Design laboratory ✓	Lab	--	--	4	2	100

M. The
Chairman BOS

B. Kateswara
MEMBERS
P. Ananda



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DEPARTMENT OF CIVIL ENGINEERING

7	Mini Project With Seminar ✓		0	0	4	2	100
8	Audit Course -2 ✓	Audit	2	0	0	0	
Total Credits / Marks						18	700

III- Semester

S.No.	Course Name	Category	L	T	P	C	Marks
1	Elective 5: Program Elective /MOOCS	Elective	3	0	--	3	100
	a) Design of Prestressed Concrete structures						
	b) Structural Health Monitoring ✓						
	c) Industrial Structures ✓						
2	Open Elective / MOOCS	Elective	3	0	--	3	100
3	Dissertation Phase-I / Industrial Project (To be continued and Evaluated next Semester)* ✓		--	--	20	10	
Total Credits / Marks						16	200

* Evaluated and displayed in 4th Semester marks list

** Students Going for Industrial Project / Thesis will complete these courses through MOOCS

IV-Semester

Sl No.	Course Name	Category	L	T	P	C	Marks
1	Project / Dissertation Phase II (Continued from III Semester)		0	0	32	16	100
Total Credits / Marks						16	100

Audit course 1 & 2

1. English for Research Paper Writing
2. Disaster Management
3. Sanskrit for Technical Knowledge
4. Value Education
5. Constitution of India
6. Pedagogy Studies
7. Stress Management by Yoga
8. Personality Development through Life Enlightenment Skills.

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B.Koteswara
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P. Anusha


M. Tech. Course Structure - Power Electronics

I Semester

S. No	Course Code	Course	L	T	P	C
1	20PE1T1	Electrical Machine Modeling & Analysis	4	--	--	3
2	20PE1T2	Analysis of Power Electronic Converters	4	--	--	3
3	20PE1T3A 20PE1T3B 20PE1T3C	Elective - I i. Modern Control Theory ii. Power Quality and Custom Power Devices iii. Programmable Logic Controllers & Applications	4	--	--	3
4	20PE1T4A 20PE1T4B 20PE1T4C	Elective - II i. Artificial Intelligence Techniques ii. Renewable Energy Technologies iii. HVDC Transmission and Flexible AC Transmission Systems	4	--	--	3
5	20PE1T5	Research Methodology and IPR	2	--	--	2
6	20PE1L1	Power Electronics Simulation Laboratory	--	--	4	2
7	20PE1L2	Power Converters Laboratory	--	--	4	2
8		Audit Course - 1	2	--	--	--
Total Credits			18			

II Semester

S. No	Course Code	Course	L	T	P	C
1	20PE2T1	Switched Mode Power Conversion	4	1	--	3
2	20PE2T2	Power Electronic Control of Electrical Drives	4	1	--	3
3	20PE2T3A 20PE2T3B 20PE2T3C	Elective - III i. Control & Integration of Renewable Energy Systems ii. Hybrid Electric Vehicles iii. Digital Control Systems	4	1	--	3
4	20PE2T4A 20PE2T4B 20PE2T4C	Elective - IV i. Advanced Digital Signal Processing ii. Applications of Power Converters iii. Microcontrollers	4	1	--	3
5	20PE2L1	Electric Drives Simulation Laboratory	--	--	4	2
6	20PE2L2	Electric Drives Laboratory	--	--	4	2
7		Mini Project with Seminar	--	--	4	2
8		Audit Course - 2	2	--	--	--
Total Credits			18			

Dr S Sivanagaraju, Professor, EEE, JNTUK		Sri L Jagadeesh, Senior Officer, KECIL.	
Dr G Yesuratnam, Professor, EED, OU.		Sri K Satish Kumar, Research Scholar, NIT	
Dr Y Chandra Sekhar, Asst Prof, NIT, Warangal		Dr V Sateesh, Prof & Head	


III Semester

S. No	Course Code	Course	L	T	P	C
1	20PE3T1A 20PE3T1B 20PE3T1C	Program Elective - V i. Digital Signal Processing Controlled Drives ii. Smart Grid Technologies iii. Modelling & Simulation of Power Electronic Systems	4	1	--	3
2	20PE3T2A 20PE3T2B 20PE3T2C	Open Elective i. Industrial Safety ii. Energy Audit, Conservation & Management iii. Composite Materials	4	1	--	3
3		Dissertation Phase - I (to be continued and evaluated next semester)	--	--	20	8
Total Credits			14			

IV Semester

S. No	Course Code	Course	L	T	P	C
1		Dissertation Phase - II (continued from III semester)	--	--	32	10
Total Credits			10			

L-Lecture; T-Tutorial; P-Practical; C-Credits

Dr S Sivanagaraju, Professor, EEE, JNTUK		Sri L Jagadeesh, Senior Officer, KECIL.	
Dr G Yesuratnam, Professor, EED, OU.		Sri K Satish Kumar, Research Scholar, NIT	
Dr Y Chandra Sekhar, Asst Prof, NIT, Warangal		Dr V Sateesh, Prof & Head	