



MALLA REDDY INSTITUTE OF TECHNOLOGY



(Sponsored by Malla Reddy Educational Society)

Approved by AICTE & Affiliated to JNTU Hyderabad

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COURSE STRUCTURE

ACADEMIC YEAR 2021-22

S. No.	COURSE CODE	COURSE NAME	R18			
I YEAR I SEMESTER-(R18)			L	T	P	CREDITS
1	MA101BS	Mathematics – I	3	1	0	4
2	CH102BS	Chemistry	3	1	0	4
3	EE103ES	Basic Electrical Engineering	3	0	0	3
4	ME105ES	Engineering Workshop	1	0	3	2.5
5	EN105HS	English	2	0	0	2
6	CH106BS	Engineering Chemistry Lab	0	0	3	1.5
7	EN107HS	English Language and Communication Skills Lab	0	0	2	1
8	EE108ES	Basic Electrical Engineering Lab	0	0	2	1
TOTAL CREDITS			12	2	10	19
I YEAR II SEMESTER-(R18)			L	T	P	CREDITS
9	MA201BS	Mathematics – II	3	1	0	4
10	AP202BS	Applied Physics	3	1	0	4
11	CS203ES	Programming for Problem Solving	3	1	0	4
12	ME204ES	Engineering Graphics	1	0	4	3
13	AP205BS	Applied Physics Lab	0	0	3	1.5
14	CS206ES	Programming for Problem Solving Lab	0	0	3	1.5
15	MC209ES	Environmental Science	3	0	0	0
TOTAL CREDITS			13	3	10	18
II YEAR I SEMESTER-(R18)			L	T	P	CREDITS
16	CS301ES	Analog and Digital Electronics	3	0	0	3
17	CS302PC	Data Structures	3	1	0	4
18	MA303BS	Computer Oriented Statistical Methods	3	1	0	4
19	CS304PC	Computer Organization and Architecture	3	0	0	3
20	CS305PC	Object Oriented Programming using C++	2	0	0	2
21	CS306ES	Analog and Digital Electronics Lab	0	0	2	1
22	CS307PC	Data Structures Lab	0	0	3	1.5
23	CS308PC	IT Workshop Lab	0	0	3	1.5
24	CS309PC	C++ Programming Lab	0	0	2	1
25	MC309	Gender Sensitization Lab	0	0	2	0
TOTAL CREDITS			14	2	12	21
II YEAR II SEMESTER-(R18)			L	T	P	CREDITS
26	CS401PC	Discrete Mathematics	3	0	0	3
26	SM402MS	Business Economics & Financial Analysis	3	0	0	3
27	CS403PC	Operating Systems	3	0	0	3
28	CS404PC	Database Management Systems	3	1	0	4
29	CS405PC	Java Programming	3	1	0	4
30	CS406PC	Operating Systems Lab	0	0	3	1.5

31	CS407PC	Database Management Systems Lab	0	0	3	1.5
32	CS408PC	Java Programming Lab	0	0	2	1
33	MC409	Constitution of India	3	0	0	0
TOTAL CREDITS			18	2	8	21
III YEAR I SEMESTER-(R18)			L	T	P	CREDITS
34	CS501PC	Formal Languages & Automata Theory	3	0	0	3
35	CS502PC	Software Engineering	3	0	0	3
36	CS503PC	Computer Networks	3	0	0	3
37	CS504PC	Web Technologies	3	0	0	3
38	CS513PE	Data Analytics	3	0	0	3
39	CS521PE	Computer Graphics	3	0	0	3
40	CS505PC	Software Engineering Lab	0	0	3	1.5
41	CS506PC	Computer Networks & Web Technologies Lab	0	0	3	1.5
42	EN508HS	Advanced Communication Skills Lab	0	0	2	1
43	MC510	Intellectual Property Rights	3	0	0	0
TOTAL CREDITS			21	0	8	22
III YEAR II SEMESTER-(R18)			L	T	P	CREDITS
44	CS601PC	Machine Learning	3	1	0	4
45	CS602PC	Compiler Design	3	1	0	4
46	CS603PC	Design and Analysis of Algorithms	3	1	0	4
47	CS613PE	Scripting Languages	3	0	0	3
48	CE600OE	Disaster Preparedness & Planning Management	3	0	0	3
49	CS604PC	Machine Learning Lab	0	0	3	1.5
50	CS605PC	Compiler Design Lab	0	0	3	1.5
51	CS623PE	Scripting Languages Lab	0	0	2	1
52	MC609	Environmental Science	3	0	0	0
TOTAL CREDITS			18	3	8	22
IV YEAR I SEMESTER-(R18)			L	T	P	CREDITS
53	CS701PC	Cryptography & Network Security	3	0	0	3
54	CS702PC	Data Mining	2	0	0	2
55	CS714PE	Cloud Computing	3	0	0	3
56	CS725PE	Software Process & Project Management	3	0	0	3
57	CE700OE	Remote Sensing and GIS	3	0	0	3
58	CS703PC	Cryptography & Network Security Lab	0	0	2	1
59	CS704PC	Industrial Oriented Mini Project/ Summer Internship	0	0	0	2*
60	CS705PC	Seminar	0	0	2	1
61	CS706PC	Project Stage – I	0	0	6	3
TOTAL CREDITS			14	0	10	21
IV YEAR II SEMESTER-(R18)			L	T	P	CREDITS
62	SM801MS	Organizational Behaviour	3	0	0	3
63	CS814PE	Human Computer Interaction	3	0	0	3
64	CE800OE	Environmental Impact Assessment	3	0	0	3
65	CS802PC	Project Stage – II	0	0	14	7
TOTAL CREDITS			9	0	14	16



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MAISAMMAGUDA, DHULLAPALLY POST, VIA HAKIMPET, SEC-BAD 500 100

COMPUTER SCIENCE & ENGINEERING

COURSE STRUCTURE

ACADEMIC YEAR 2020-21

S. No.	COURSE CODE	COURSE NAME	R16 & R18			
I YEAR I SEMESTER-(R18)			L	T	P	CREDITS
1	MA101BS	Mathematics – I	3	1	0	4
2	CH102BS	Chemistry	3	1	0	4
3	EE103ES	Basic Electrical Engineering	3	0	0	3
4	ME105ES	Engineering Workshop	1	0	3	2.5
5	EN105HS	English	2	0	0	2
6	CH106BS	Engineering Chemistry Lab	0	0	3	1.5
7	EN107HS	English Language and Communication Skills Lab	0	0	2	1
8	EE108ES	Basic Electrical Engineering Lab	0	0	2	1
TOTAL CREDITS			12	2	10	19
I YEAR II SEMESTER-(R18)			L	T	P	CREDITS
9	MA201BS	Mathematics – II	3	1	0	4
10	AP202BS	Applied Physics	3	1	0	4
11	CS203ES	Programming for Problem Solving	3	1	0	4
12	ME204ES	Engineering Graphics	1	0	4	3
13	AP205BS	Applied Physics Lab	0	0	3	1.5
14	CS206ES	Programming for Problem Solving Lab	0	0	3	1.5
15	MC209ES	Environmental Science	3	0	0	0
TOTAL CREDITS			13	3	10	18
II YEAR I SEMESTER-(R18)			L	T	P	CREDITS
16	CS301ES	Analog and Digital Electronics	3	0	0	3
17	CS302PC	Data Structures	3	1	0	4
18	MA303BS	Computer Oriented Statistical Methods	3	1	0	4
19	CS304PC	Computer Organization and Architecture	3	0	0	3
20	CS305PC	Object Oriented Programming using C++	2	0	0	2
21	CS306ES	Analog and Digital Electronics Lab	0	0	2	1
22	CS307PC	Data Structures Lab	0	0	3	1.5
23	CS308PC	IT Workshop Lab	0	0	3	1.5
24	CS309PC	C++ Programming Lab	0	0	2	1
25	MC309	Gender Sensitization Lab	0	0	2	0
TOTAL CREDITS			14	2	12	21
II YEAR II SEMESTER-(R18)			L	T	P	CREDITS
26	CS401PC	Discrete Mathematics	3	0	0	3
27	SM402MS	Business Economics & Financial Analysis	3	0	0	3
28	CS403PC	Operating Systems	3	0	0	3
29	CS404PC	Database Management Systems	3	1	0	4

30	CS405PC	Java Programming	3	1	0	4
31	CS406PC	Operating Systems Lab	0	0	3	1.5
32	CS407PC	Database Management Systems Lab	0	0	3	1.5
33	CS408PC	Java Programming Lab	0	0	2	1
34	MC409	Constitution of India	3	0	0	0
TOTAL CREDITS			18	2	8	21
III YEAR I SEMESTER-(R18)			L	T	P	CREDITS
35	CS501PC	Formal Languages & Automata Theory	3	0	0	3
36	CS502PC	Software Engineering	3	0	0	3
37	CS503PC	Computer Networks	3	0	0	3
38	CS504PC	Web Technologies	3	0	0	3
39	CS513PE	Data Analytics	3	0	0	3
40	CS521PE	Computer Graphics	3	0	0	3
41	CS505PC	Software Engineering Lab	0	0	3	1.5
42	CS506PC	Computer Networks & Web Technologies Lab	0	0	3	1.5
43	EN508HS	Advanced Communication Skills Lab	0	0	2	1
44	MC510	Intellectual Property Rights	3	0	0	0
TOTAL CREDITS			21	0	8	22
III YEAR II SEMESTER-(R18)			L	T	P	CREDITS
45	CS601PC	Machine Learning	3	1	0	4
46	CS602PC	Compiler Design	3	1	0	4
47	CS603PC	Design and Analysis of Algorithms	3	1	0	4
48	CS615PE	Software Testing Methodologies	3	0	0	3
49	CE600OE	Disaster Preparedness & Planning Management	3	0	0	3
50	CS604PC	Machine Learning Lab	0	0	3	1.5
51	CS605PC	Compiler Design Lab	0	0	3	1.5
52	CS625PE	Software Testing Methodologies Lab	0	0	2	1
53	MC609	Environmental Science	3	0	0	0
TOTAL CREDITS			18	3	8	22
IV YEAR I SEMESTER-(R16)			L	T	P	CREDITS
54	CS701PC	Data Mining	4	0	0	4
55	CS702PC	Principles of Programming Languages	4	0	0	4
56	CS721PE	Python Programming	3	0	0	3
57	CS734PE	Software Process & Project Management	3	0	0	3
58	CS742PE	Cloud Computing	3	0	0	3
59	CS703PC	Data Mining Lab	0	0	3	2
60	CS704PC	Python Programming Lab	0	0	3	2
61	CS705PC	Industrial Oriented Mini Project	0	0	3	2
62	CS706PC	Seminar	0	0	3	2
TOTAL CREDITS			17	0	11	24
IV YEAR II SEMESTER-(R16)			L	T	P	CREDITS
63	CS853PE	Data Analytics	3	0	0	3
64	CS863PE	Computer Forensics	3	0	0	3
65	CE833OE	Entrepreneurship and Small Business Enterprises	3	0	0	3
66	CS801PC	Major Project	0	0	30	15
TOTAL CREDITS			9	0	30	24



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ACADEMIC YEAR 2019-20

S. No.	COURSE CODE	COURSE NAME	R16 & R18			
I YEAR I SEMESTER-(R18)			L	T	P	CREDITS
1	MA101BS	Mathematics – I	3	1	0	4
2	CH102BS	Chemistry	3	1	0	4
3	EE103ES	Basic Electrical Engineering	3	0	0	3
4	ME105ES	Engineering Workshop	1	0	3	2.5
5	EN105HS	English	2	0	0	2
6	CH106BS	Engineering Chemistry Lab	0	0	3	1.5
7	EN107HS	English Language and Communication Skills Lab	0	0	2	1
8	EE108ES	Basic Electrical Engineering Lab	0	0	2	1
TOTAL CREDITS			12	2	10	19
I YEAR II SEMESTER-(R18)			L	T	P	CREDITS
9	MA201BS	Mathematics – II	3	1	0	4
10	AP202BS	Applied Physics	3	1	0	4
11	CS203ES	Programming for Problem Solving	3	1	0	4
12	ME204ES	Engineering Graphics	1	0	4	3
13	AP205BS	Applied Physics Lab	0	0	3	1.5
14	CS206ES	Programming for Problem Solving Lab	0	0	3	1.5
15	MC209ES	Environmental Science	3	0	0	0
TOTAL CREDITS			13	3	10	18
II YEAR I SEMESTER-(R18)			L	T	P	CREDITS
16	CS301ES	Analog and Digital Electronics	3	0	0	3
17	CS302PC	Data Structures	3	1	0	4
18	MA303BS	Computer Oriented Statistical Methods	3	1	0	4
19	CS304PC	Computer Organization and Architecture	3	0	0	3
20	CS305PC	Object Oriented Programming using C++	2	0	0	2
21	CS306ES	Analog and Digital Electronics Lab	0	0	2	1
22	CS307PC	Data Structures Lab	0	0	3	1.5
23	CS308PC	IT Workshop Lab	0	0	3	1.5
24	CS309PC	C++ Programming Lab	0	0	2	1
25	MC309	Gender Sensitization Lab	0	0	2	0
TOTAL CREDITS			14	2	12	21
II YEAR II SEMESTER-(R18)			L	T	P	CREDITS
26	CS401PC	Discrete Mathematics	3	0	0	3
27	SM402MS	Business Economics & Financial Analysis	3	0	0	3
28	CS403PC	Operating Systems	3	0	0	3
29	CS404PC	Database Management Systems	3	1	0	4
30	CS405PC	Java Programming	3	1	0	4

31	CS406PC	Operating Systems Lab	0	0	3	1.5
32	CS407PC	Database Management Systems Lab	0	0	3	1.5
33	CS408PC	Java Programming Lab	0	0	2	1
34	MC409	Constitution of India	3	0	0	0
TOTAL CREDITS			18	2	8	21
III YEAR I SEMESTER-(R16)			L	T	P	CREDITS
35	CS501PC	Design and Analysis of Algorithms	4	0	0	4
36	CS502PC	Data Communication and Computer Networks	4	0	0	4
37	CS503PC	Software Engineering	4	0	0	4
38	SM504MS	Fundamentals of Management	3	0	0	3
39	CE511OE	Disaster Management	3	0	0	3
40	CS505PC	Design and Analysis of Algorithms Lab	0	0	3	2
41	CS506PC	Computer Networks Lab	0	0	3	2
42	CS507PC	Software Engineering Lab	0	0	3	2
43	MC500HS	Professional Ethics	3	0	0	0
TOTAL CREDITS			21	0	9	24
III YEAR II SEMESTER-(R16)			L	T	P	CREDITS
44	CS601PC	Compiler Design	4	0	0	4
45	CS602PC	Web Technologies	4	0	0	4
46	CS603PC	Cryptography and Network Security	4	0	0	4
47	CE621OE	Remote Sensing and GIS	3	0	0	3
48	CS612PE	Design Patterns	3	0	0	3
49	CS604PC	Cryptography and Network Security Lab	0	0	3	2
50	CS605PC	Web Technologies Lab	0	0	3	2
51	EN606HS	Advanced English Communication Skills Lab	0	0	3	2
TOTAL CREDITS			18	0	9	24
IV YEAR I SEMESTER-(R16)			L	T	P	CREDITS
52	CS701PC	Data Mining	4	0	0	4
53	CS702PC	Principles of Programming Languages	4	0	0	4
54	CS721PE	Python Programming	3	0	0	3
55	CS734PE	Software Process and Project Management	3	0	0	3
56	CS742PE	Cloud Computing	3	0	0	3
57	CS703PC	Data Mining Lab	0	0	3	2
58	CS751PC	Python Programming Lab	0	0	3	2
59	CS705PC	Industry Oriented Mini Project	0	0	3	2
60	CS706PC	Seminar	0	0	3	2
TOTAL CREDITS			17	0	11	24
IV YEAR II SEMESTER-(R16)			L	T	P	CREDITS
61	CE833OE	Entrepreneurship and Small Business Enterprises	3	0	0	3
62	CS853PE	Data Analytics	3	0	0	3
63	CS863PE	Computer Forensics	3	0	0	3
64	CS801PC	Major Project	0	0	30	15
TOTAL CREDITS			9	0	30	24