

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA KAKINADA – 533 003, Andhra Pradesh, India

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

COURSE STRUCTURE M.Tech CSE for COMPUTER SCIENCE & TECHNOLOGY PROGRAMME

(Applicable for batches admitted from 2019-2020)



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

I SEMESTER

S.No	Course Code	Courses	Cate	L	т	P	C
1	MTCST1101	Program Core-1 Mathematical Foundations of Computer Science	PC	3	0	0	3
2	MTCST1102	Program Core-2 Advanced Data Structures	PC	3	0	0	3
3	MTCST1103	Program Elective-1 1. Artificial Intelligence 2. Cloud Computing 3. Digital Image Processing 4. Advanced Operating System 5. Optimization Techniques	PE	3	0	0	3
4	MTCST1104	Program Elective-2 1. Big Data Analytics 2. Applied Cryptography 3. Advanced Computer Networks 4. Embedded Computing 5. Parallel Computer Architecture	PE	3	0	0	3
5	MTCST1105	Research Methodology and IPR	CC			0	2
6	MTCST1106	Laboratory-1 Advanced Data Structures Lab	LB	0	0	4	2
7	MTCST1107	Laboartory-2 Computing Lab	LB	0	0	4	2
8	MTCST1108	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	Cate	L	T	P	C
1	MTCST1201	Program Core-3 Advanced Algorithms	PC	3	0	0	3
2	MTCST1202	Program Core-4 Machine Learning	PC	3	0	0	3
3	MTCST1203	Program Elective-3 1. Soft Computing 2. Advanced Network Principles and Protocols 3. Internet of Things 4. Open Source Programming 5. Pattern Recognition	PE	3	0	0	3
4	MTCST1204	Program Elective-4 1. Natural Language Processing 2. Full Stack Technologies 3. Parallel Algorithms 4. Object Oriented Software Engineering 5. Distributed Database	PE	3	0	0	3
5	MTCST1205	Laboratory-3 Advance Algorithms Lab	LB	0	0	4	2
6	MTCST1206	Laboartory-4 Machine Learning Lab	LB	0	0	4	2
7	MTCST1207	Mini Project with Seminar	MP	2	0	0	2
8	MTCST1208	Audit Course-2 *	AC	2	0	0	0
		Total Credits					18

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

Audit Course 1 & 2:

- 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
- Personality Development through Life Enlightenment Skills

III-SEMESTER

S.No	Course Code	Courses	Cate	L	Т	P	С
1	MTCST2101	Program Elective-5 1. Deep Learning 2. Ethical Hacking 3. MOOCs-1 through NPTEL/SWAYAM- 12 Week Program related to the programme which is not listed in the course structure	PE	3	0	0	3
2	MTCST2102	Open Elective 1. MOOCs-2 through NPTEL/SWAYAM- any 12 week course on Engineering/ Management/ Mathematics offered by other than parent department 2. Course offered by other departments in the college		3	0	0	3
3	MTCST2103	Dissertation-I/Industrial Project #	PJ	0	0	20	10
	T	otal Credits					16

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

IV SEMESTER

S.No	Course Code	Courses	Cate	L	Т	P	С
1	MTCST2201	Dissertation-II	PJ	0	0	32	16
	T	otal Credits					16

Open Electives offered to other departments:

- 1. Python Programming
- 3. Artificial Intelligence
- 5. Machine Learning

- 2. Web Technologies
- 4. Internet of Things
- 6. Advanced Data Structures

Academic Planning JNTUK Kakinada