



TECHNO INDIA UNIVERSITY
WEST BENGAL

2-Years Master of Technology (M.Tech.)

2023-2024

M. Tech. – CSE || 1st Year – 1st Semester

Serial No	Course Code	Course Title	Contact Hrs. / Week			Credit
			L	T	P	
Theory						
1	TIU-PMA-T115	Advanced Numerical Analysis	3	1	0	4
2	TIU-PCS-T101	Advanced Design and Analysis of Algorithms	3	0	0	3
3	TIU-PCS-T111	Data Science and Big Data Analytics	3	0	0	3
4	TIU-PCS-E####	Elective – I	3	1	0	4
5	TIU-PCS-E####	Elective – II	3	1	0	4
Practical						
6	TIU-PCS-L101	Advanced Design and Analysis of Algorithm Lab	0	0	3	2
7	TIU-PCS-L111	Data Science and Big Data Analytics Lab	0	0	3	2
Sessional						
8	TIU-PES-S199	Entrepreneurship Skill Development	0	0	2	2
		Total Credits				24

ELECTIVE – I					
TIU-PCS-E101	Cryptography and Network Security(Elective I)	3	1	0	4
TIU-PCS-E111	Advanced Theory of Computation (Elective I)	3	1	0	4
TIU-PCS-E113	Knowledge Representation and Reasoning (Elective I)	3	1	0	4

ELECTIVE – II					
TIU-PCS-E103	Mobile Computing and Wireless Communication	3	1	0	4
TIU-PCS-E105	Machine Learning (Elective II)	3	1	0	4
TIU-PCS-E109	Digital Signal Processing (Elective II)	3	1	0	4

M. Tech. – CSE || 1st Year – 2nd Semester

Serial No	Course Code	Course Title	Contact Hrs. / Week			Credit
			L	T	P	
Theory						
1	TIU-PCS-T108	High Performance Computer Architecture	3	1	0	4
2	TIU-PCS-E###	Elective – III	3	1	0	4
3	TIU-PCS-E###	Elective – IV	3	1	0	4
4	TIU-PCS-E###	Elective – V	3	1	0	4
Practical						
5	TIU-PCS-S102	Technical Seminar-I	2	0	0	2

Sessional						
6	TIU-PES-S198	Entrepreneurship Skill Development	0	0	2	2
		Total Credits				20

ELECTIVE – III					
TIU-PCS-E102	Computer Vision (Elective III)	3	1	0	4
TIU-PCS-E103	Intelligent Systems (Elective III)	3	1	0	4
Ask exam cell for code	Internet of Things (Elective III)	3	1	0	4

ELECTIVE – IV					
TIU-PCS-E106	Bioinformatics (Elective IV)	3	1	0	4
TIU-PCS-E112	Simulations: Modeling and Analysis (Elective IV)	3	1	0	4
Ask exam cell for code	Augmented Reality (AR) and Virtual Reality (VR) (Elective IV)	3	1	0	4

ELECTIVE – V					
TIU-PCS-E116	Cloud Computing and IoT (Elective V)	3	1	0	4
TIU-PCS-E108	Data Warehousing and Data Mining (Elective V)	3	1	0	4
Ask exam cell for code	Data Visualization (Elective V)	3	1	0	4

M. Tech. – CSE || 2nd Year – 3rd Semester

Serial No	Course Code	Course Title	Contact Hrs. / Week			Credit
			L	T	P	
Theory						
1	TIU-PCS-E###	Elective –VI	3	1	0	4
2	TIU-PCS-E###	Elective – VII	3	1	0	4
Practical						
3	TIU-PCS-S201	Technical Seminar-II	0	0	3	2
4	TIU-PCS-D299	Thesis Proposal	0	3	0	8
Sessional						
5	TIU-PES-S299	Entrepreneurship Skill Development	0	0	2	2
		Total Credits				20

ELECTIVE – VI						
TIU-PCS-E205	Natural Language Processing and Information Retrieval (Elective VI)		3	1	0	4
TIU-PCS-E211	Digital VLSI Design (Elective VI)		3	1	0	4
TIU-PCS-E213	Computational Geometry (Elective VI)		3	1	0	4

ELECTIVE – VII					
TIU-PCS-E207	Pattern Recognition and Image Processing (Elective VII)	3	1	0	4
TIU-PCS-E217	Software Project Management and Testing (Elective VII)	3	1	0	4
TIU-PCS-E219	Data and Knowledge Security (Elective VII)	3	1	0	4

M. Tech. – CSE | | 2nd Year – 4th Semester

Serial No	Course Code	Course Title	Contact Hrs. / Week			Credit
			L	T	P	
Practical						
1	TIU-PCS-D298	Final Thesis	0	12	0	14
2	TIU-PCS-G298	Grand Viva	0	0	2	4
Sessional						
3	TIU-PES-S298	Entrepreneurship Skill Development	0	0	2	2
		Total Credits				20