

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
TEZPUR UNIVERSITY

Napaam – 784028 :: Sonitpur – Assam

Date: 13/01/2023

The following are the courses being offered for Ph.D., M.Tech(CSE), M.Tech(IT), MCA and B.Tech. (Excluding 1st year) Programmes in the department of Computer Science & Engineering for Spring Semester 2023. In addition, the students shall have to take CBCT/Open Elective courses as applicable. Elective courses can be selected from MOOCs courses with maximum limit of 20% of Total Credits.

Offered Courses - Spring 2023 (Excluding 1st year)

M.Tech.(CSE) 4th Semester							
Corse Code	Title	Credit Structure			Credit	Course Type	Course Instructor
		L	T	P			
CS641	Term Project II	0	0	16	16	Core	
XXXXX	Open Elective (If two OEs are not completed)	0	0	3	3	OE	
XXXXX	Elective (MOOC courses if required)					Elect.	
M.Tech.(IT) 4th Semester							
IT605	Term Project II	0	0	0	16	Core	
XXXXX	Open Elective (If two OEs are not completed)	0	0	3	3	OE	
XXXXX	Elective (MOOC courses if required)					Elect.	
MCA 4th Semester							
CS515	Major Project	0	0	16	16	Core	
XXXXX	Open Elective (If two OEs are not completed)	0	0	3	3	OE	
XXXXX	Elective (MOOC courses if required)						
B.Tech. 4th Semester							
BT201	Biology	3	0	0	3	Core	
CO206	Design and Analysis of Algorithms	3	0	1	4	Core	
CO214	Computer Architecture and Organization	3	1	0	4	Core	
CO215	Computer Organization Lab	0	0	1	1	Core	
CO216	Formal Language & Automata	3	0	0	3	Core	
CO217	Graph Theory	3	0	0	3	Core	
CO218	Data Communication	3	0	0	3	Core	
NS102	National Service Scheme	0	0	2	2	Elect.	
		Total Credits			23		
CS201	Data Structure & Operating System (Non CSE)	2	0	1	3	Core	
B.Tech. 6th Semester							
CO314	System Software and Compiler Design	3	0	1	4	Core	
CO315	Computer Networks	3	0	0	3	Core	
CO316	Computer Networks Lab	0	0	1	1	Core	
CO317	Project-I (using SE perspective)	0	0	2	2	Core	
IC361	Accounting and Financial Management	3	0	0	3	Core	
CT465	Essence of Indian Traditional Knowledge					Audit	

	Elective-II	3	0	1	4	Elect.	
	Open Elective-II	3	0	0	3	OE	
		Total Credits			20		
Choose Elective II from the following list or from MOOCs list given below)							
CO423	Web Technology	3	0	1	4	Elect.	
CO525	Data Mining	3	0	1	4	Elect.	
CO306	Embedded Systems	3	0	1	4	Elect.	
B.Tech. 8th Semester							
CO403	Project-III	0	0	8	8	core	
XXXXX	Open Elective-IV	3	0	0	3	OE	
XXXXX	Elective-V	3	0	0	3	Elec	
Choose CS Elective V from the list below or from MOOCs							
CO503	Fuzzy Logic and Neural Networks (Classes will be held at afternoon Open Elective slot)	3	0	0	3	Elect.	
CO423	Web Technology	3	0	1	4	Elect.	
CO525	Data Mining	3	0	1	4	Elect.	
OPEN ELECTIVES/CBCT (For other departments)							
CS535	Introduction to Scientific Computing	2	0	1	3	OE	
CO503	Fuzzy Logic and Neural Networks	3	0	0	3	OE	

MOOCs Courses (Elective)
(Maximum allowed is 20% of total credits)

Course code	Course Name & Instructor(s)	Offering Institute	UG/PG	Duration (in Week)	Total Credit
CS654	Programming, Data Structures and Algorithms Using Python, Prof. Madhavan Mukund	CMI	UG	8	2
CS657	Cloud Computing, Prof. Soumya Kanti Ghosh	IITKGP	UG	8	2
CS658	Social Networks, Prof. Sudarshan Iyengar, IIT Ropar	IITR	UG	12	3
CS660	Programming in Java, Prof. Debasis Samanta	IITKGP	UG	12	3
CS661	Data Science for Engineers, Prof. Ragnathan Rengasamy and Prof. Shankar Narasimhan	IITM	UG/PG	8	2
CS667	Introduction to Soft Computing, Prof. Debasis Samanta	IITKGP	UG/PG	8	2
CS669	Introduction to Industry 4.0 and Industrial Internet of Things, Prof. Sudip Misra, IIT KGP	IITKGP	PG	12	3
CS670	Deep Learning, Prof. Prabir Kumar Biswas	IITKGP	UG/PG	12	3
CS671	Reinforcement Learning, Prof. Balaraman Ravindran, IIT Madras	IITM	UG/PG	12	3
CS672	Ethical Hacking, Prof. Indranil Sengupta	IITKGP	UG/PG	12	3
CS677	Introduction to Machine Learning, Prof. Balaraman Ravindran	IITM	UG/PG	12	3

CS681	GPU Architectures and Programming, Prof. Soumyajit Dey	IITKGP	UG/PG	12	3
CS683	Data Analytics with Python, Prof. A. Ramesh	IITR	UG/PG	12	3
CS684	Cloud Computing and Distributed Systems, Prof. Rajiv Misra	IITP	UG/PG	8	2

(S. Saharia)

HoD, CSE