DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
TEZPUR UNIVERSITY
Offered Courses (Autumn 2018)

The following are the courses being offered by the Department of Computer Science & Engineering, in the Autumn Semester 2018, for Ph.D., M.Tech (IT), MCA and B.Tech. programmes. In addition, the students shall have to take Open Elective courses and SWAYAM MOOCs courses as applicable.

MCA 1st Semester (19: Credits)

Course Code	Title	Credit Structure			Total Credit	Course Type
		L	T	P		
CS 404	Programming and Problem Solving	3	1	1	5	Core
CS 405	Discrete Mathematics	2	1	0	3	Core
CS 406	Digital Logic	3	0	1	4	Core
CS 407	Information and Communication Technology	3	0	1	4	Core
BA 544	Principles of Management	3	0	0	3	CBCT/OE
MCA 3rd Semester (21: Credits)						
CS 508	Database Management	3	1	1	5	Core
CS 502	System Software	2	0	1	3	Core
CS 509	Data Communication	3	0	1	4	Core
CS 531	Object Oriented Programming and Design	3	1	1	5	E
CS 522	Computer Graphics	3	0	1	4	E
	Open Elective/CBCT	3	0	0	3	CBCT/OE
MCA 5th Semester						
CS 514	Minor Project	0	0	8	8	Core
CS 602	Image Processing	3	0	0	3	E
CS 538	Computational Geometry	3	0	0	3	E
IT 509	Data Mining & Data Warehousing	3	0	1	4	E
CO504	Natural Language Processing	3	0	0	3	E
CS 638	Software Defined Networking & Network Function Virtualization	3	0	0	3	E
CS 610	Bioinformatics	3	0	0	3	E
CS XXX	**SWAYAM MOOCs**				2/3	E
M.Tech. 1st Semester (19: Credits)						
CS 531	Object Oriented Programming & Design	3	1	1	5	Core
IT 611	Distributed Systems	3	0	0	3	Core
CS 634	Selected Topics in Computer Networks	3	0	1	4	Core
CS 505	Software Engineering	3	0	1	4	E
MS 450	Elementary Mathematics & Statistics	3	0	0	3	CBCT/OE
M.Tech. 3rd Semester (15: Credits)						
IT 604	Term Project I	0	0	8	8	Core
IT 509	Data Mining & Data Warehousing	3	0	1	4	E
CS 731	Data Mining in Security	3	0	0	3	E
CS 538	Computational Geometry	3	0	0	3	E
CO 504	Natural Language Processing	3	0	0	3	E
CS 638	Software Defined Networking & Network Function Virtualization	3	0	0	3	E

CS 610	Bioinformatics	3	0	0	3	E
CS XXX	**SWAYAM MOOCs**				**2/3**	**E**
	B.Tech. 3rd Semester (28: Credits)					
CO 201	Discrete Structures	3	1	0	4	Core
CO 202	Digital Logic Design	2	1	1	4	Core
CO 203	Data Structures	3	1	1	5	Core
CO 212	Computer Architecture and Organization	3	1	1	5	Core
MS 201	Mathematics III	2	1	0	3	Core
EL 204	Signals and Systems	2	1	0	3	Core
CO 208	Object Oriented Programming	3	0	1	4	Core
	B.Tech. 5th Semester (23: Credits)					
CO 301	Operating Systems	3	0	1	4	Core
CO 302	Database Systems	3	0	2	5	Core
CO 303	Computer Graphics	3	0	1	4	Core
CO 304	Principles of Programming Languages	3	0	0	3	Core
CO 305	Computer Networks	3	0	1	4	Core
BM 321	Fundamentals of Management	3	0	0	3	Core
	B. Tech. 7th Semester					
CO 481	Project I	0	0	0	6	Core
CO 401	Artificial Intelligence	3	0	0	3	Core
CO 471	Industrial Summer Training	0	0	2	2	Core
CO 434	Image Processing	3	0	0	3	E
CO 504	Natural Language Processing	3	0	0	3	E
CS 606	Computer Architecture & Parallel Processing	3	0	0	3	E
IT 611	Distributed Systems	3	0	0	3	E
IT 509	Data Mining and Data Warehousing	3	0	1	4	E
CS 538	Computational Geometry	3	0	0	3	E
CS 638	Software Defined Networking & Network Function Virtualization	3	0	0	3	E
CS 610	Bioinformatics	3	0	0	3	E
CS XXX	SWAYAM MOOCs				2/3	E
	Ph.D.					
CS 731	Data Mining in Security	4	0	0	4	E
CS 704	Doctoral Research Methodology	4	0	0	4	Core
CS XXX	SWAYAM MOOCs				2/3	E
	Open Electives (for students from other Departments)					
CS 537	Natural Language Processing	3	0	0	3	CBCT/OE
CS 538	Computational Geometry	3	0	0	3	CBCT/OE
CS 536	Computer Applications and Information Management	3	0	0	3	CBCT/OE
CS 610	Bioinformatics	3	0	0	3	CBCT/OE

(N. Sarma)