

**Curriculum Structures of the B. Tech programme in
Computer Science and Engineering (CSE)
(As per AICTE 2018 guidelines)**

Basic Science Courses:

Course Code	Course Name	Credit				CH
		L	T	P	Total	
MS104	Mathematics-I	3	1	0	4	4
MS105	Mathematics-II	3	1	0	4	4
MS205	Mathematics-III	3	0	0	3	3
CO105	Discrete Maths	3	1	0	4	4
PH103	Physics-I	2	0	1	3	4
PH104	Physics-II	2	0	0	2	2
CH103	Chemistry	3	0	1	4	5
BT201	Biology	3	0	0	3	3
	Total-	22	3	2	27	29

HSS and Management Courses:

Course Code	Course Name	Credit				CH
		L	T	P	Total	
EF103	English	2	0	1	3	4
BA201	Economics	3	0	0	3	3
IC361	Accounting and Financial Management	3	0	0	3	3
	HMS Elective-I	3	0	0	3	3
	Total-	11	0	2	12	13

HSS and Management Elective Courses:

Course Code	Course Name	Credit				CH
		L	T	P	Total	
EG4XX	Introduction to Academic Reporting in English	2	0	1	3	4
BA4XX	Fundamentals of Management	3	0	0	3	3
BA4XX	Social Responsibility and Professional Ethics in Engineering	3	0	0	3	3

Engineering Science Courses:

Course Code	Course Name	Credit				CH
		L	T	P	Total	
CE1XX	Engineering Graphics and Design	1	0	2	3	5
EE1XX	Basic Electrical Engineering	3	0		3	3
EE1XX	Basic Electrical Engineering Lab	0	0	1	1	2
EL1XX	Basic Electronics	2	1	1	4	5
ME1XX	Workshop Practice	0	0	2	2	4
CO103	Introductory Computing	2	1	0	3	3
CO104	Computing Laboratory	0	0	2	2	4
EL2XX	Signals and Systems	2	1	0	3	3
CO218	Data Communication	3	0	0	3	3
CO209	Computing Workshop (SciLab/MatLab/R & Simulator Lab)	0	0	2	2	4
	Total-				26	36


Professional Core Courses:

Course Code	Course Name	Credit				CH
		L	T	P	Total	
CO202	Digital Logic Design	3	0	1	4	5
CO210	Data Structures	3	1	0	4	4
CO216	Formal Languages and Automata	3	0	0	3	3
CO214	Computer Architecture and Organization	3	1	0	4	4
CO215	Computer Architecture and Organization lab	0	0	1	1	2
CO206	Design and Analysis of Algorithm	3	0	1	4	5
CO211	Data Structures using Object Oriented Programming Lab	0	1	2	3	5
CO309	Operating Systems	3	0	0	3	3
CO312	Database Systems	3	0	0	3	3
CO315	Computer Networks	3	0	0	3	3
CO310	Operating Systems Lab	0	0	1	1	2

CO316	Computer Network Lab	0	0	1	1	2
CO313	Database Systems Lab	0	1	1	2	3
CO314	System software and Compiler Design	3	0	1	4	5
CO311	Software Engineering	3	0	0	3	3
CO401	Artificial Intelligence	3	0	0	3	3
CO217	Graph Theory	3	0	0	3	3
CO303	Computer Graphics	3	0	1	4	5
	Total-			10	53	63

Category-wise Break-up:

Course Category	Credits
Humanities, Social Science and Management Courses (HSMC)	12
Basic Science Courses (BSC)	27
Engineering Science Courses (ESC)	26
Professional Core Courses (PCC)	53
Professional Elective Courses (PEC)	17
Open Elective Courses (OEC)	12
Projects	14
Total-	161


 Controller of Examinations
 Tezpur University
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