



B. Tech. Computer Science & Engineering (First Year)
Trimester – I

Sr. No	Course Code	Name of Course	Category	Credits	
				Th	Lab
1	ES111	Mathematics -I	BS	3	--
2	ES112	Physics	BS	3	1
3	CE111	Applied Mechanics	ES	3	1
4	ME111	Workshop Practices	ES	-	1
5	ES113	Effective Communication	HSS	1	1
6		Practicing Yoga and Meditation	WP	-	-
	-	Total :		10	04

**Assessment Marks are valid only if Attendance criteria are met

Total Credits: First Year B. Tech Trimester I: 14

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(Dean)



B. Tech. Computer Science & Engineering (First Year)
Trimester – II

Sr. No	Course Code	Name of Course	Category	Credits	
				Th	Lab
1	ES121	Mathematics II	BS	3	-
2	ES122	Chemistry	BS	2	-
3	ME121	Material Science For Engineers	BS	2	1
4	ME122	Engineering Graphics	ES	1	1
5	CS121	Computer Programming	ES	2	1
6	WPC1	Philosophers of Bharat, Great Kings & Dynasties	WP	2	-
7		Rural Immersion Programme	WP	-	-
8		Practicing Yoga and Meditation	WP	-	-
		Total :		12	03

**Assessment Marks are valid only if Attendance criteria are met

Total Credits: First Year B. Tech Trimester II:15

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B. Tech. Computer Science & Engineering (First Year)
Trimester – III

Sr. No.	Course Code	Name of Course	Category	Credits	
				Th	Lab
1	ES131	Biology	BS	2	1
2	ME131	Engineering Design Principles	ES	2	1
3	EL131	Engineering Science Elective Course I*	ES	2	1
4	EL132	Engineering Science Elective Course II*	ES	2	1
5	WPC2	Gandhian Philosophy	WP	2	-
6		Practicing Yoga and Meditation	WP	-	-
		Total :		10	04

**Assessment Marks are valid only if Attendance criteria are met

Total Credits: First Year B. Tech. Trimester III: 14

Total First Year B. Tech Credits: 14+15+14=43

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*** Any two courses other than parent/ home discipline can be chosen from the list given below.**

Sr. No.	Course Code	Name of Course
1		Introduction to Civil Engineering
2		Introduction to Mechanical Engineering
3	CS131	Introduction to Computer Science and Engineering
4		Introduction to Electrical Engineering
5		Introduction to Electronics Engineering
6		Introduction to Polymer Engineering
7		Introduction to Petroleum Engineering
8		Introduction to Chemical Engineering

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B. Tech. Computer Science & Engineering (Second Year)
Trimester – IV

Sr. No.	Course Code	Name of Course	Category	Credits	
				Th	Lab
1	CS211	Discrete Structures	BS	3	--
2	CS212	Principles of Programming Languages	PC	2	1
3	CS213	Digital Electronics and Logic Design	PC	2	1
4	CS214	Object Oriented Programming	PC	2	1
5	CS215	Computer Organization	PC	2	-
6		Indian Constitution/ Environmental Science	HSS	1	-
		Total :		12	03

**Assessment Marks are valid only if Attendance criteria are met

Total Credits: Second Year B. Tech. Trimester I:15

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B. Tech. Computer Science & Engineering (Second Year)
Trimester – V

Sr. No.	Course Code	Name of Course	Category	Credits	
				Th	Lab
1	ES222	Mathematics -III	BS	3	--
2	CS221	Data Structures - I	PC	2	1
3	CS222	Microprocessor and Interfacing Techniques	PC	2	1
4	CS223	Data and Mobile Communication	PC	2	1
5		Science and Spirituality	WP	2	-
6		National Study Tour	WP	-	-
		Total :		11	03

**Assessment Marks are valid only if Attendance criteria are met

Total Credits: Second Year B. Tech. Trimester II:14

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B. Tech. Computer Science & Engineering (Second Year)
Trimester – VI

Sr. No.	Course Code	Name of Course	Category	Credits	
				Th	Lab
1	CS231	Data Structures - II	PC	2	1
2	CS232	Microprocessor and Microcontroller	PC	2	1
3	CS233	Software Engineering and Project Management	PC	2	1
4	CS234	Operating Systems	PC	2	1
5		Indian Constitution/ Environmental Science	HSS	1	-
		Total :		09	04

**Assessment Marks are valid only if Attendance criteria are met

Total Second Year B. Tech Credits: 15+14+13 = 42

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B. Tech. Computer Science & Engineering (Third Year)
Trimester – VII

Sr. No.	Course Code	Name of Course	Category	Credits	
				Th	Lab
1	CS311	Computer Networks	PC	2	1
2	CS312	Database Management System	PC	2	1
4	CS313	Professional Elective I	PE	2	1
5		Open Elective I	OE	2	1
5	CS314	Embedded and IOT Lab	PC	-	2
6		Human Values & Professional Ethics	WP	2	-
		Total :		10	06

**Assessment Marks are valid only if Attendance criteria are met

Total Credits: Third Year B. Tech. Trimester I: 16

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B. Tech. Computer Science & Engineering (Third Year)
Trimester – VIII

Sr. No.	Course Code	Name of Course	Category	Credits	
				Th	Lab
1	CS321	Theory of Computation	PC	3	-
2	CS322	High Performance Computing	PC	2	1
3		Open Elective II	OE	2	1
4	CS323	Professional Elective II	PE	2	1
5		Finance and Accounting	HSS	2	-
6		Spirit and Mind	WP	2	-
		Total :		13	03

**Assessment Marks are valid only if Attendance criteria are met

Total Credits: Third Year B. Tech. Trimester II:16

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B. Tech. Computer Science & Engineering (Third Year)

Trimester – IX

Sr. No.	Course Code	Name of Course	Category	Credits	
				Th	Lab
1	CS331	System Software and Compilers	PC	2	1
2	CS332	Design and Analysis of Algorithms	PC	3	-
3	CS333	Professional Elective III	PE	2	1
4		Open Elective III	OE	2	1
5	CS334	Seminar/ Mini Project	PR	-	1
6		Gandhian Philosophy	WP	2	-
7		International Study Tour	WP	-	-
		Total :		11	04

**Assessment Marks are valid only if Attendance criteria are met

Total Credits: Third Year B. Tech. Trimester III: 15

Total Third Year B. Tech Credits: 16+16+15 = 47

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B. Tech. Computer Science & Engineering (Final Year)
Trimester – X

Sr. No.	Course Code	Name of Course	Category	Credits	
				Th	Lab
1	CS411	Professional Elective IV	PE	2	1
2	CS412	Professional Elective V	PE	2	1
3		Open Elective IV	OE	2	1
4	CS413	Mini Project/ Interdisciplinary Project	PR	-	2
5		Strategic Planning & Leadership	LPC	2	-
		Total :		08	05

**Assessment Marks are valid only if Attendance criteria are met

Total Credits: Final Year B. Tech. Trimester I: 13

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B. Tech. Computer Science & Engineering (Final Year)
Trimester – XI

Sr. No.	Course Code	Name of Course	Category	Credits	
				Th	Lab
1	CS421	Professional Elective VI	PE	2	1
2		Open Elective V	OE	2	1
3		Open Elective VI	OE	2	1
4	CS422	Capstone Project: Stage I	PR	-	2
		Total :		6	5

**Assessment Marks are valid only if Attendance criteria are met

Total Credits: Final Year B. Tech. Trimester II:11

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B. Tech. Computer Science & Engineering (Final Year)

Trimester – XII

Sr. No.	Course Code	Name of Course	Category	Credits	
				Th	Lab
1	CS431	Capstone Project with/ without Internship : Stage II	PR	-	10
		Total :		-	10

**Assessment Marks are valid only if Attendance criteria are met

Total Credits: Third Year B. Tech. Trimester III:10

Total Final Year B. Tech Credits: 13+11+10 = 34

Total B. Tech Credits: 43+42+47+34 = 166 Credits + 6 credits earned through MOOCs

Note: Structure subject to minor changes

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