Scheme Document for 2021 Batch onwards

B. Tech. Computer Science and Engineering

Year	Semester	Course Code	Course Name	Type	L	T	P	Credits
FIRST YEAR								
1ST	1ST	MAL 103	Calculus for Engineers	BS	3	1	0	4
1ST	1ST	BEL 102	Elements of Electrical Engineering	ES	3	0	2	4
1ST	1ST	ASL 101	Applied Sciences	BS	3	0	2	4
1ST	1ST	CSL 101	Computer Programming	DC	3	0	2	4
1ST	1ST	ECL 101	Electronics Devices and Circuits	DC	3	0	2	4
1ST	1ST	SAP 101	Health, Sports & Safety	HU	0	0	2	0
1ST	1ST	HUL 102	Environmental Studies	HU	2	0	0	2
Subtotal					**17**	**1**	**10**	**22**
1ST	2nd	MAL 104	Matrices, Transform Techniques, and Differential Equations	BS	3	1	0	4
1ST	2nd	ECL 102	Digital Electronics	DC	3	0	2	4
1ST	2nd	CSL 102	Data Structures	DC	3	0	2	4
1ST	2nd	CSL 103	Application Programming	DC	3	0	2	4
1ST	2nd	HUL 101	Communication Skills	HU	2	0	2	3
1ST	2nd	BEL 101	Mechanics & Graphics	ES	3	0	2	4
Subtotal					**17**	**1**	**10**	**23**
Total								**45**
SECOND YEAR								
2nd	3rd	MAL 201	Numerical Methods and Probability Theory	BS	3	1	0	4
2nd	3rd	CSL 202	Introduction to Object Oriented Programming	DC	3	0	2	4
2nd	3rd	CSL 203	Computer System Organisation	DC	3	0	0	3
2nd	4th	CSL 210	Data Structures with Applications	DC	2	0	2	3
2nd	3rd	CSP 201	IT Workshop-I	DC	0	0	4	2
2nd	3rd	ECL 202	Microprocessors & Interfacing	DC	3	0	2	4
Subtotal					**14**	**1**	**10**	**20**
2nd	4th	CSL 205	Design and Analysis of Algorithms	DC	3	0	2	4
2nd	4th	CSL 206	Software Engineering	DC	3	0	0	3
2nd	4th	CSL 207	Operating Systems	DC	3	0	2	4
2nd	4th	CSL 208	Design Principles of Programming Languages	DC	3	0	2	4

2nd	4th	CSL 204	Discrete Maths and Graph Theory	DC	3	1	0	4
2nd	4th	CSP 202	IT Workshop-II	DC	0	0	4	2
Subtotal					**15**	**1**	**10**	**21**
Total								**41**
THIRD YEAR								
3rd	5th	CSL 301	Database Management Systems	DC	3	0	2	4
3rd	5th		Open Course - I	OC	3	0	0	3
3rd	5th	CSL 302	Computer Networks	DC	3	0	2	4
3rd	5th	CSL 303	Theory of Computation	DC	3	1	0	4
3rd	5th		Elective-I	DE	3	0	0	3
Subtotal					**15**	**1**	**4**	**18**
3rd	6th	CSL 304	Compilers	DC	3	0	2	4
3rd	6th	CSL 305	Cryptography and Network Security	DC	3	0	2	4
3rd	6th		Open course-II	OC	3	0	0	3
3rd	6th		Elective-II	DE	3	0	0	3
3rd	6th		Elective –III	DE	3	0	2	4
Subtotal					**15**	**0**	**6**	**18**
Total								**36**
FINAL YEAR								
4th	7th	CSD401	Project	DE	0	0	16	8
4th	7th		Elective-IV	DE	3	0	0/2	3/4
4th	7th		Elective-V	DE	3	0	0/2	3/4
4th	7th		Elective-VI	DE	3	0	0	3
4th	7th		Elective-VII	DE	3	0	0	3
4th	7th		Open Course III / MooC Course*	OC	3	0	0	3
			OR					
4th	7th	CSD402	Internship	DE	0	0	16	8
Subtotal					**15**	**0**	**16-20**	**23-25/8**
4th	8th	CSD402	Internship	DE	0	0	16	8
			OR					
4th	8th	CSD401/ CSD403	Project / Internship - II	DE	0	0	16	8
4th	8th		Elective-IV	DE	3	0	0/2	3/4
4th	8th		Elective-V	DE	3	0	0/2	3/4
4th	8th		Elective-VI	DE	3	0	0	3
4th	8th		Elective-VII	DE	3	0	0	3
4th	8th		Open Course III / MooC Course*	OC	3	0	0	3

Subtotal		**15**	**0**	**16-20**	**8 / 23-25**
Total					**31-33**
GRAND TOTAL					**153-155**

TYPE	CREDITS
BS	16
ES	08
HU	05
OC	06+03*
DE	38/40
DC	77
Total	**153/155**