

CCE

1st Semester:

S. No.	CCODE	Course Name	Type	L	T	P	Credits
1	PH111	Classical Physics	BSC	3	1	0	4
2	MT111	Calculus and Ordinary Differential Equations	BSC	3	1	0	4
3	EC111	Basic Electronics	ESC	3	1	0	4
4	EC111L	Basic Electronics Lab	ESC	0	0	3	1.5
5	CS111	Programming for Problem Solving	ESC	3	0	3	4.5
6	HS111	Technical Communication in English	HSMC	2	0	2	3
7	HS112	Indian Knowledge System	MC	1	0	0	1

A 3-week Mandatory Induction Program

Total Credits 22

2nd Semester:

S. No.	CCODE	Course Name	Type	L	T	P	Credits
1	HS121	Human Values and Ethics	HSMC	3	0	0	3
2	ME121	Environmental Science	MC	1	0	0	1
3	MT121	Linear Algebra and Complex Analysis	BSC	3	1	0	4
4	CS121	Data Structures and Algorithms	ESC	3	0	3	4.5
5	PH121L	UG Physics Laboratory	BSC	0	0	3	1.5
6	CS122	Introduction to Scripting Languages	ESC	0	0	2	1
7	CS123	Digital Systems	PC	3	0	2	4
8	CS124	Discrete Mathematics	PC	3	0	0	3

Total Credits 22

Summer Term

Exit option with UG Certificate* by Completing 40 credits from 2 semesters and additional 6 credits from an Internship or skill based courses in the summer term

3rd Semester:

S. No.	CCODE	Course Name	Type	L	T	P	Credits
1	MT211	Probability and Statistics	BSC	3	1	0	4
2	CS215	Design and Analysis of Algorithms	PC	3	0	2	4
3	CC212	Signals and Systems	PC	3	1	0	4
4	CC211	Computer Organization and Architecture	PC	3	0	0	3
5	CS213	Database Management Systems	ESC	3	0	2	4
6	CS214	Object Oriented Programming	PC	3	0	2	4

Total Credits 23

4th Semester:

S. No.	CCODE	Course Name	Type	L	T	P	Credits
1	HS221	Constitutional Studies	MC	1	0	0	1
2	CS221	Web Programming	PC	0	0	2	1
3	CS223	Operating Systems	PC	3	0	2	4
4	CC221	Computer Communication Networks	PC	3	0	2	4
5	EC221	Analog and Digital Communication	PC	3	0	0	3
6	EC221L	Analog and Digital Communication Lab	PC	0	0	3	1.5
7	CC222	Embedded Systems and IoT	PC	3	0	3	4.5
8	CC223	Introduction to AI and ML	PC	3	0	2	4

Total Credits 23

Summer Term							
Exit option with UG Diploma by Completing 80 credits from 4 semesters and additional 6 credits from an Internship or skill based courses in the summer term							

5th Semester:							
S. No.	CCODE	Course Name	Type	L	T	P	Credits
1	LN311/LN312	Summer Internship/Project	Project	0	0	8	4
2	HS311	Psychology, Technology & Society	HSMC	3	0	0	3
3	EC311	Wireless Communication	PC	3	0	0	3
4	EC311L	Wireless Communication lab	PC	0	0	3	1.5
5	CS311	Software Engineering	PC	3	0	0	3
6	EC313	Digital Signal Processing	PC	3	0	0	3
7	EC313L	Digital Signal Processing Lab	PC	0	0	3	1.5
8	CS314	Software Development Lab	PC	0	0	2	1
9		Program Elective – 1	PE	3	0	0	3
Total Credits							23

6th Semester:							
S. No.	CCODE	Course Name	Type	L	T	P	Credits
1	LN321	B.Tech. Project (BTP)	Project	0	0	8	4
2	HS321	Introduction to Economics	HSMC	3	0	0	3
3	LN322	Seminar and Presentation Skills	Project	0	0	2	1
4	CC321	Information Theory and Coding	PC	3	0	0	3
5	EC	Control System Engineering	PC	3	0	0	3
6		Program Elective – 2	PE	3	0	0	3
7		Program Elective – 3	PE	3	0	0	3
Total Credits							20

Summer Term							
Exit option with B.Sc. by Completing 120 credits from 6 semesters and additional 6 credits from an Internship or skill based courses in the summer term							

7th Semester:							
S. No.	CCODE	Course Name	Type	L	T	P	Credits
1	LN411	B.Tech. Project (BTP)	Project	0	0	8	4
2		Program Elective – 4	PE	3	0	0	3
3		Program Elective – 5	PE	3	0	0	3
4		Open Elective – 1	OE	3	0	0	3
5		Open Elective – 2	OE	3	0	0	3
Total Credits							16

8th Semester:							
S. No.	CCODE	Course Name	Type	L	T	P	Credits
Option 1	LN421	Industrial SLI	Project	0	0	24	12
Option 2	LN422	Thesis	Project	0	0	24	12
Option 3		4 Elective Courses	OE/PE	12	0	0	12
Option 4	LN423	Project	Project	0	0	12	6
		2 Elective Courses	OE/PE	6	0	0	6
Option 5	LN424	Internship	Project	0	0	12	6
		2 Elective Courses	OE/PE	6	0	0	6
Total Credits							12

Total Curriculum Credits							161
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