CREDIT INFO

S.no	Catagory	Credits
1	Foundation Core - Basic Sciences and Mathematics	24
2	Foundation Core - Basic Engineering Sciences	10
3	Foundation Core - Humanities, Social Sciences and Management	15
4	Discipline-linked Engineering Sciences	11
5	Discipline Core	52
6	Discipline Elective	15
7	Projects and Internship	9
8	Open Elective	15
9	Non-graded Core Requirement	11
Total Credits		151

Foundation Core - Basic Sciences and Mathematics

sl.no	Course Code	Course Title	Course Type	Version	L	T	P	J	Credits
1	BCHY101L	Engineering Chemistry	Theory Only	1.0	3	0	0	0	3.0
2	BCHY101P	Engineering Chemistry Lab	Lab Only	1.0	0	0	2	0	1.0
3	BMAT101L	Calculus	Theory Only	1.0	3	0	0	0	3.0
4	BMAT101P	Calculus Lab	Lab Only	1.0	0	0	2	0	1.0
5	BMAT102L	Differential Equations and Transforms	Theory Only	1.0	3	1	0	0	4.0
6	BMAT201L	Complex Variables and Linear Algebra	Theory Only	1.0	3	1	0	0	4.0
7	BMAT202L	Probability and Statistics	Theory Only	1.0	3	0	0	0	3.0
8	BMAT202P	Probability and Statistics Lab	Lab Only	1.0	0	0	2	0	1.0
9	BPHY101L	Engineering Physics	Theory Only	1.0	3	0	0	0	3.0
10	BPHY101P	Engineering Physics Lab	Lab Only	1.0	0	0	2	0	1.0

Foundation Core - Basic Engineering Sciences

sl.no	Course Code	Course Title	Course Type	Version	L	T	P	J	Credits
1	BCSE101E	Computer Programming: Python	Embedded Theory and Lab	1.0	1	0	4	0	3.0
2	BCSE102L	Structured and Object-Oriented Programming	Theory Only	1.0	2	0	0	0	2.0
3	BCSE102P	Structured and Object-Oriented Programming Lab	Lab Only	1.0	0	0	4	0	2.0
4	BCSE103E	Computer Programming: Java	Embedded Theory and Lab	1.0	1	0	4	0	3.0
5	BEEE102L	Basic Electrical and Electronics Engineering	Theory Only	1.0	3	0	0	0	3.0
6	BEEE102P	Basic Electrical and Electronics Engineering Lab	Lab Only	1.0	0	0	2	0	1.0

Foundation Core - Humanities, Social Sciences and Management

sl.no	Course Code	Course Title	Course Type	Version	L	T	P	J	Credits
1	BENG101L	Technical English Communication	Theory Only	1.0	2	0	0	0	2.0
2	BENG101N	Effective English Communication	Lab Only	1.0	0	0	4	0	2.0
3	BENG101P	Technical English Communication Lab	Lab Only	1.0	0	0	2	0	1.0
4	BENG102P	Technical Report Writing	Lab Only	1.0	0	0	2	0	1.0
5	BFLE200L	Foreign Language	Basket	1.0	0	0	0	0	2.0
6	BHSM200L	HSM Elective	Basket	1.0	0	0	0	0	3.0
7	BSTS101P	Quantitative Skills Practice I	Soft Skill	1.1	3	0	0	0	1.5
8	BSTS102P	Quantitative Skills Practice II	Soft Skill	1.0	3	0	0	0	1.5
9	BSTS201P	Qualitative Skills Practice I	Soft Skill	1.0	3	0	0	0	1.5
10	BSTS202P	Qualitative Skills Practice II	Soft Skill	1.1	3	0	0	0	1.5

Discipline-linked Engineering Sciences

sl.no	Course Code	Course Title	Course Type	Version	L	T	P	J	Credits
1	BECE201L	Electronic Materials and devices	Theory Only	1.0	3	0	0	0	3.0
2	BECE203L	Circuit Theory	Theory Only	1.0	3	1	0	0	4.0
3	BMAT205L	Discrete Mathematics and Graph Theory	Theory Only	1.0	3	1	0	0	4.0

Discipline Core

sl.no	Course Code	Course Title	Course Type	Version	L	T	P	J	Credits
1	BCSE202L	Data Structures and Algorithms	Theory Only	1.0	3	0	0	0	3.0
2	BCSE202P	Data Structures and Algorithms Lab	Lab Only	1.0	0	0	2	0	1.0
3	BCSE204L	Design and Analysis of Algorithms	Theory Only	1.0	3	0	0	0	3.0
4	BCSE204P	Design and Analysis of Algorithms Lab	Lab Only	1.0	0	0	2	0	1.0
5	BCSE205L	Computer Architecture and Organization	Theory Only	1.0	3	0	0	0	3.0
6	BCSE302L	Database Systems	Theory Only	1.0	3	0	0	0	3.0
7	BCSE302P	Database Systems Lab	Lab Only	1.0	0	0	2	0	1.0
8	BCSE303L	Operating Systems	Theory Only	1.0	3	0	0	0	3.0
9	BCSE303P	Operating Systems Lab	Lab Only	1.0	0	0	2	0	1.0
10	BCSE304L	Theory of Computation	Theory Only	1.0	3	0	0	0	3.0
11	BCSE307L	Compiler Design	Theory Only	1.0	3	0	0	0	3.0
12	BCSE308L	Computer Networks	Theory Only	11.0	3	0	0	0	3.0
13	BCSE308P	Computer Networks Lab	Lab Only	1.0	0	0	2	0	1.0
14	BECE102L	Digital Systems Design	Theory Only	1.0	3	0	0	0	3.0
15	BECE102P	Digital Systems Design Lab	Lab Only	1.0	0	0	2	0	1.0
16	BECE204L	Microprocessors and Microcontrollers	Theory Only	1.0	3	0	0	0	3.0
17	BECE204P	Microprocessors and Microcontrollers Lab	Lab Only	1.0	0	0	2	0	1.0

		Discipline Core							
18	BECE206L	Analog Circuits	Theory Only	1.0	3	0	0	0	3.0
19	BECE206P	Analog Circuits Lab	Lab Only	1.0	0	0	2	0	1.0
20	BECE303L	VLSI System Design	Theory Only	1.0	3	0	0	0	3.0
21	BECE303P	VLSI System Design Lab	Lab Only	1.0	0	0	2	0	1.0
22	BECM301L	Signal Processing	Theory Only	1.0	3	0	0	0	3.0
23	BECM301P	Signal Processing Lab	Lab Only	1.0	0	0	2	0	1.0
24	BECM304L	Principles of Communication Systems	Theory Only	1.0	3	0	0	0	3.0

		Discipline Elective							
sl.no	Course Code	Course Title	Course Type	Version	L	T	P	J	Credits
1	BCSE208L	Data Mining	Theory Only	1.0	2	0	0	0	2.0
2	BCSE208P	Data Mining Lab	Lab Only	1.0	0	0	2	0	1.0
3	BCSE301L	Software Engineering	Theory Only	1.0	3	0	0	0	3.0
4	BCSE324L	Foundations of Blockchain Technology	Theory Only	1.0	3	0	0	0	3.0
5	BCSE332L	Deep Learning	Theory Only	1.0	3	0	0	0	3.0
6	BCSE332P	Deep Learning Lab	Lab Only	1.0	0	0	2	0	1.0
7	BCSE401L	Internet of Things	Theory Only	1.0	3	0	0	0	3.0
8	BCSE402L	Big Data Analytics	Theory Only	1.1	3	0	0	0	3.0
9	BCSE404L	Internet and Web Programming	Theory Only	1.1	3	0	0	0	3.0
10	BCSE407L	Computer vision	Theory Only	1.1	3	0	0	0	3.0
11	BCSE408L	Cloud Computing	Theory Only	1.1	3	0	0	0	3.0
12	BCSE409L	Natural Language Processing	Theory Only	1.1	3	0	0	0	3.0
13	BCSE414L	High Performance Computing	Theory Only	1.1	3	0	0	0	3.0
14	BCSE420L	Sensors, Actuators and Signal Conditioning	Theory Only	1.0	2	0	0	0	2.0
15	BCSE420P	Sensors, Actuators and Signal Conditioning Lab	Lab Only	1.0	0	0	2	0	1.0
16	BCSE428L	Autonomous Drones	Theory Only	1.0	2	0	0	0	2.0
17	BCSE428P	Autonomous Drones Lab	Lab Only	1.0	0	0	2	0	1.0
18	BCSE429L	Cyber Physical Systems Design	Theory Only	1.0	2	0	0	0	2.0
19	BCSE429P	Cyber Physical System Design Lab	Lab Only	1.0	0	0	2	0	1.0
20	BECE302L	Control Systems	Theory Only	1.0	2	1	0	0	3.0
21	BECE309L	Artificial Intelligence and Machine Learning	Theory Only	1.0	3	0	0	0	3.0
22	BECE312L	Robotics and Automation	Theory Only	1.0	3	0	0	0	3.0
23	BECE403E	Embedded Systems Design	Embedded Theory and Lab	1.0	3	0	2	0	4.0
24	BECE406E	FPGA Based System Design	Embedded Theory and Lab	1.0	2	0	2	0	3.0
25	BECE407E	ASIC Design	Embedded Theory and Lab	1.0	2	0	2	0	3.0
26	BECE411L	Cryptography and Network Security	Theory Only	1.0	3	0	0	0	3.0
27	BECM302E	Augmented and Virtual Reality	Embedded Theory and Lab	1.0	3	0	2	0	4.0
28	BECM303L	Wireless Communication Networks	Theory Only	1.0	3	0	0	0	3.0

Discipline Elective

29	BECM391J	Technical Answers to Real Problems Project	Project	1.0	0	0	0	0	3.0
30	BECM392J	Design Project	Project	1.0	0	0	0	0	3.0
31	BECM393J	Laboratory Project	Project	1.0	0	0	0	0	3.0
32	BECM394J	Product Development Project	Project	1.0	0	0	0	0	3.0
33	BECM395J	Computer Project	Project	1.0	0	0	0	0	3.0
34	BECM396J	Reading Course	Project	1.0	0	0	0	0	3.0
35	BECM397J	Special Project	Project	1.0	0	0	0	0	3.0
36	BECM398J	Stimulation Project	Project	1.0	0	0	0	0	3.0

Projects and Internship

sl.no	Course Code	Course Title	Course Type	Version	L	T	P	J	Credits
1	BECM399J	Summer Industrial Internship	Project	1.0	0	0	0	0	1.0
2	BECM497J	Project - I	Project	1.0	0	0	0	0	3.0
3	BECM498J	Project - II / Internship	Project	1.0	0	0	0	0	5.0
4	BECM499J	One Semester Internship	Project	1.0	0	0	0	0	14.0

Non-graded Core Requirement

sl.no	Course Code	Course Title	Course Type	Version	L	T	P	J	Credits
1	BCHY102N	Environmental Sciences	Online Course	1.0	0	0	0	0	2.0
2	BECM101N	Introduction to Engineering	Project	1.0	0	0	0	0	1.0
3	BEXC100N	Extra curricular activities	Basket	1.0	0	0	0	0	2.0
4	BHUM101N	Ethics and Values	Online Course	1.0	0	0	0	0	2.0
5	BSSC101N	Essence of Traditional Knowledge	Online Course	1.0	0	0	0	0	2.0
6	BSSC102N	Indian Constitution	Online Course	1.0	0	0	0	0	2.0