

CREDIT INFO		
S.no	Category	Credits
1	Foundation Core - Basic Sciences and Mathematics	24
2	Foundation Core - Basic Engineering Sciences	14
3	Foundation Core - Humanities, Social Sciences and Management	15
4	Discipline-linked Engineering Sciences	12
5	Discipline Core	47
6	Projects and Internship	9
7	Open Elective	9
8	Non-graded Core Requirement	11
9	Specialization Elective	21
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	BECE102L	Digital Systems Design	Theory Only	1.0	3	0	0	0	3.0
2	BECE102P	Digital Systems Design Lab	Lab Only	1.0	0	0	2	0	1.0
3	BECE204L	Microprocessors and Microcontrollers	Theory Only	1.0	3	0	0	0	3.0
4	BECE204P	Microprocessors and Microcontrollers Lab	Lab Only	1.0	0	0	2	0	1.0
5	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	BCSE203E	Web Programming	Embedded Theory and Lab	1.0	1	0	4	0	3.0
4	BCSE204L	Design and Analysis of Algorithms	Theory Only	1.0	3	0	0	0	3.0
5	BCSE204P	Design and Analysis of Algorithms Lab	Lab Only	1.0	0	0	2	0	1.0
6	BCSE205L	Computer Architecture and Organization	Theory Only	1.0	3	0	0	0	3.0
7	BCSE301L	Software Engineering	Theory Only	1.0	3	0	0	0	3.0
8	BCSE301P	Software Engineering Lab	Lab Only	1.0	0	0	2	0	1.0
9	BCSE302L	Database Systems	Theory Only	1.0	3	0	0	0	3.0
10	BCSE302P	Database Systems Lab	Lab Only	1.0	0	0	2	0	1.0
11	BCSE303L	Operating Systems	Theory Only	1.0	3	0	0	0	3.0
12	BCSE303P	Operating Systems Lab	Lab Only	1.0	0	0	2	0	1.0
13	BCSE304L	Theory of Computation	Theory Only	1.0	3	0	0	0	3.0
14	BCSE305L	Embedded Systems	Theory Only	1.0	3	0	0	0	3.0

Discipline Core									
15	BCSE306L	Artificial Intelligence	Theory Only	1.0	3	0	0	0	3.0
16	BCSE307L	Compiler Design	Theory Only	1.0	3	0	0	0	3.0
17	BCSE307P	Compiler Design Lab	Lab Only	1.0	0	0	2	0	1.0
18	BCSE308L	Computer Networks	Theory Only	11.0	3	0	0	0	3.0
19	BCSE308P	Computer Networks Lab	Lab Only	1.0	0	0	2	0	1.0
20	BCSE309L	Cryptography and Network Security	Theory Only	1.0	3	0	0	0	3.0
21	BCSE309P	Cryptography and Network Security Lab	Lab Only	1.0	0	0	2	0	1.0

Projects and Internship									
sl.no	Course Code	Course Title	Course Type	Version	L	T	P	J	Credits
1	BCSE399J	Summer Industrial Internship	Project	1.0	0	0	0	0	1.0
2	BCSE497J	Project-I	Project	1.0	0	0	0	0	3.0
3	BCSE498J	Project-II / Internship	Project	1.0	0	0	0	0	5.0
4	BCSE499J	One Semester Internship	Project	1.0	0	0	0	0	14.0

Open Elective									
sl.no	Course Code	Course Title	Course Type	Version	L	T	P	J	Credits
1	BECE351E	Internet of Things	Embedded Theory and Lab	1.0	1	0	2	0	2.0
2	BECE352E	IoT Domain Analyst	Embedded Theory and Lab	1.0	1	0	2	0	2.0
3	BFST213E	Garment Designing and Manufacturing	Embedded Theory and Lab	1.0	2	0	2	0	3.0
4	BHUM201L	Mass Communication	Theory Only	1.0	3	0	0	0	3.0
5	BHUM202L	Rural Development	Theory Only	1.0	3	0	0	0	3.0
6	BHUM203L	Introduction to Psychology	Theory Only	1.0	3	0	0	0	3.0
7	BHUM204L	Industrial Psychology	Theory Only	1.0	3	0	0	0	3.0
8	BHUM205L	Development Economics	Theory Only	1.0	3	0	0	0	3.0
9	BHUM206L	International Economics	Theory Only	1.0	3	0	0	0	3.0
10	BHUM207L	Engineering Economics	Theory Only	1.0	3	0	0	0	3.0
11	BHUM208L	Economics of Strategy	Theory Only	1.0	3	0	0	0	3.0
12	BHUM209L	Game Theory	Theory Only	1.0	3	0	0	0	3.0
13	BHUM210E	Econometrics	Embedded Theory and Lab	1.0	2	0	2	0	3.0
14	BHUM211L	Behavioral Economics	Theory Only	1.0	3	0	0	0	3.0
15	BHUM212L	Mathematics for Economic Analysis	Theory Only	1.0	3	0	0	0	3.0
16	BHUM213L	Corporate Social Responsibility	Theory Only	1.0	3	0	0	0	3.0
17	BHUM214L	Political Science	Theory Only	1.0	3	0	0	0	3.0
18	BHUM215L	International Relations	Theory Only	1.0	3	0	0	0	3.0

Open Elective									
19	BHUM216L	Indian Culture and Heritage	Theory Only	1.0	3	0	0	0	3.0
20	BHUM217L	Contemporary India	Theory Only	1.0	3	0	0	0	3.0
21	BHUM218L	Financial Management	Theory Only	1.0	3	0	0	0	3.0
22	BHUM219L	Principles of Accounting	Theory Only	1.0	3	0	0	0	3.0
23	BHUM220L	Financial Markets and Institutions	Theory Only	1.0	3	0	0	0	3.0
24	BHUM221L	Economics of Money, Banking and Financial Markets	Theory Only	1.0	3	0	0	0	3.0
25	BHUM222L	Security Analysis and Portfolio Management	Theory Only	1.0	3	0	0	0	3.0
26	BHUM223L	Options, Futures and other Derivatives	Theory Only	1.0	3	0	0	0	3.0
27	BHUM224L	Fixed Income Securities	Theory Only	1.0	3	0	0	0	3.0
28	BHUM225L	Personal Finance	Theory Only	1.0	3	0	0	0	3.0
29	BHUM226L	Corporate Finance	Theory Only	1.0	3	0	0	0	3.0
30	BHUM227L	Financial Statement Analysis	Theory Only	1.0	3	0	0	0	3.0
31	BHUM228L	Cost and Management Accounting	Theory Only	1.0	3	0	0	0	3.0
32	BHUM229L	Mind, Embodiment, and Technology	Theory Only	1.0	3	0	0	0	3.0
33	BHUM230L	Health Humanities in Biotechnological Era	Theory Only	1.0	3	0	0	0	3.0
34	BSTS301P	Advanced Competitive Coding-I	Soft Skill	1.0	3	0	0	0	1.5
35	BSTS302P	Advanced Competitive Coding - II	Soft Skill	1.0	3	0	0	0	1.5

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	BCSE101N	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

Specialization Elective									
sl.no	Course Code	Course Title	Course Type	Version	L	T	P	J	Credits
1	BCSE209L	Machine Learning	Theory Only	1.0	3	0	0	0	3.0
2	BCSE209P	Machine Learning Lab	Lab Only	1.0	0	0	2	0	1.0
3	BCSE332L	Deep Learning	Theory Only	1.0	3	0	0	0	3.0
4	BCSE332P	Deep Learning Lab	Lab Only	1.0	0	0	2	0	1.0
5	BCSE416L	Game Programming	Theory Only	1.1	3	0	0	0	3.0
6	BCSE416P	Game Programming Lab	Lab Only	1.0	0	0	2	0	1.0
7	BCSE417L	Machine vision	Theory Only	1.1	3	0	0	0	3.0
8	BCSE417P	Machine Vision Lab	Lab Only	1.0	0	0	2	0	1.0
9	BCSE418L	Explainable Artificial Intelligence	Theory Only	1.1	2	0	0	0	2.0

Specialization Elective									
10	BCSE419L	Speech and Language Processing	Theory Only	1.0	3	0	0	0	3.0
11	BCSE419P	Speech and Language Processing lab	Lab Only	1.0	0	0	2	0	1.0
12	BCSE427L	Cognitive Robotics	Theory Only	1.0	2	0	0	0	2.0
13	BCSE427P	Cognitive Robotics Lab	Lab Only	1.0	0	0	2	0	1.0
14	BCSE428L	Autonomous Drones	Theory Only	1.0	2	0	0	0	2.0
15	BCSE428P	Autonomous Drones Lab	Lab Only	1.0	0	0	2	0	1.0