S. No	Course Code	Course Title	Course Type	Credits
Semester I				
1	BMAT1001	Computational Mathematics – I	BSC	4
2	BPHY1002	Engineering Physics	BSC	4
3	BPLC1003	Problem Solving using Programming	ESC	4
4	BESC1004	Basic Electronics	ESC	3
5	BETC1005A	Front-end Web Development - Fundamentals	ESC	4
6	BAEC1006	Innovation and Design Thinking	HSMC	1
7	BAEC1007	Communicative English	HSMC	1
8	BMNC1008	Environmental Studies	MC	0
Semester II				
1	BMAT2001	Computational Mathematics - II	BSC	4
2	BCHE2002	Materials Chemistry for Computing Systems	BSC	4
3	BPLC2003	Object Oriented Programming	PCC	3
4	BESC2004	Mechanical Engineering Sciences	ESC	3
5	BETC2005A	Frontend Web Development - Advanced	ESC	4
6	BAEC2006	UI and UX Design for Developers	ESC	2
7	BMNC2007	Constitution of India	MC	0
8	BAEC2008	Professional Writing Skills in English	HSMC	1
Semester III				
1	BPCC3001	Backend Web Development	PCC	4
2	BPCC3002	NoSQL Databases for Web Development	PCC	4
3	BPCC3003	Full Stack Web Development	PCC	4
4	BPCC3004	Operating Systems	PCC	4
5	BMNC3005	Essence of Indian Knowledge Tradition	MC	0
6	BAEC3006	Critical Thinking	HSMC	2
7	BPCC3007	Computer Organization and Architecture	PCC	4
Semester IV				
1	BPCC4001	Data Structures and Algorithms - 1	PCC	4
2	BAEC4002	Professional Skills for the Workplace	HSMC	4
3	BPCC4003	Database Management Systems	PCC	4
4	BPCC4004	Introduction to Artificial Intelligence	PCC	4
5	BPCC4005	Artificial Intelligence Methods, Tools and Techniques	PCC	4
6	BPCC4006	Linux Administration	PCC	4

Semester V				
1	BPCC5001	Data Structures and Algorithms - 2	PCC	4
2	BPCC5002	Formal Language and Automata Theory	PCC	4
3	BPCC5003	Machine Learning	PCC	3
4	BAEC5004	Tools and Techniques for Creative Thinking	HSMC	3
5	BPCC5005	LLM Systems Foundation	PCC	3
Semester VI				
1	BPCC6001	Design and Analysis of Algorithms	PCC	4
2	BPCC6002	Computer Networks	PCC	4
3	BPCC6003	Compiler Design	PCC	3
4	BPCC6005	Advanced Machine Learning	PCC	3
5	BPCC6006	Systems Design	PCC	4
6	BPCC6004	Programming with Prompt Engineering	PCC	4
Semester VII				
1	BAEC7001	Fundamentals of Business Management	HSMC	3
2	BPCC7002	Natural Language Processing	PCC	4
3	BPEC7003A/B	Professional Elective - 1 (Building on the Blockchain / Edge Computing)	PEC	4
4	BOEC7004A/B/C	Foundation Elective (Human Mind and Behaviour/ Organizational Behaviour/ Design Thinking 101)	HSMC	3
5	BPEC7005A/B/C	Professional Elective - 2 (Speech Processing / Robotics and Automation / Cloud Computing for Data Analytics)	PEC	4
Semester VIII				
1	BPROJ8001	Capstone Project	PROJ	6
2	BIINT8002	Industry Internship	PROJ	12