

Semester I				
S. No	Course Code	Course Title	Course Type	Credits
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	BETC1005B	Front-end Web Development - Fundamentals	ESC	4
6	BAEC1006	Innovation and Design Thinking	HSMC	1
7	BMNC1007	Environmental Studies	MC	0
8	BAEC1008	Communicative English	HSMC	1
Semester II				
1	BMAT2001	Computational Mathematics - II	BSC	4
2	BCHE2002	Materials Chemistry for Computer 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	Computer Organisation and Architecture	PCC	4
5	BPCC3005	Operating Systems	PCC	4
6	BMNC3006	Essence of Indian Knowledge Tradition	MC	0
7	BAEC3007	Critical Thinking	HSMC	2
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	Linux Administration	PCC	4
5	BPCC4009	Cybersecurity Fundamentals, Exploits and Vulnerabilities	PCC	4
6	BPCC4010	Cryptography and Network Security	PCC	4

Semester V				
1	BPCC5001	Data Structures and Algorithms - 2	PCC	4
2	BPCC5002	Formal Language and Automata Theory	PCC	4
3	BPCC5010	Malware Analysis	PCC	3
4	BPCC5011	VAPT and Ethical Hacking	PCC	3
5	BAEC5003	Tools and Techniques for Creative Thinking	HSMC	3
6	BPCC5012	IT Acts and Cyber Laws	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	BPCC6008	Security in Public Clouds	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	BPCC7010	Cyber Forensics and Investigation	PCC	4
3	BPEC7011A/B/C	Professional Elective - 1 (Security in Blockchain and Future Technologies/ IoT and Embedded System Security)	PEC	4
4	BOEC7004A/B/C	Foundation Elective (Human Mind and Behaviour/ Organizational Behaviour/ Design Thinking 101)	HSMC	3
5	BPEC7012A/B/C	Professional Elective - 2 (Incident Management and Threat Intelligence / Governance, Risk, and Compliance/ Security Operations Center (SOC) Design and Management)	PEC	4
6	BPEC7013A/B/C	Exploit Development / Advanced Web and App	PEC	4
Semester VIII				
1	BPROJ8001	Capstone Project	PROJ	6
2	BIINT8002	Industry Internship	PROJ	12
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