

B.Sc. Computer Science

Semester-Wise Course List with Course Codes & Credits

Category	Semester	Course Code	Course Name	Credits
Core Computer Science	I	BSCS0101	Programming in C	04
	I	BSCS0102	Basics of Computer and information technology	04
	II	BSCS0201	Operating System	03
	II	BSCS0202	DBMS	04
	III	BSCS0301	Computer Networks	04
	III	BSCS0302	Data Structure	04
	IV	BSCS0401	Object Oriented Programming Concept using C++	04
	IV	BSCS0402	Computer system organization	03
	V	BSCS0501	Web Designing with PHP	04
	V	BSCS0502	Java Programming	04
	VI	BSCS0601	Software Project Management	04
	VI	BSCS602	Python programming	04
	VII	BSCS0701	Network security	04
	VII	BSCS0702	Data communication network	03
	VIII	BSCS0801	Data ware housing and mining	03
Total Core Computer Science Credits				56

Category	Semester	Course Code	Course Name	Credits
Mathematics and Logical Foundation	I	BSMA0101	Calculus and Differential Equations	03
	I	BSPH0101	Mechanics	03
	II	BSMA0201	Abstract Algebra	03
	II	BSPH0201	Thermodynamics and Kinetic Theory of Gases	03
	III	BSMA0301	Vector Analysis and Linear Algebra	03
	III	BSPH301	Optics	03
	IV	BSMA0401	Advanced Calculus and Partial Differential equations	03
	IV	BSPH0401	Electricity and Magnetism	04
	V	BSMA0501	Discrete Structure	03
Total Credits Mathematics and Logical Foundation				28

Category	Semester	Course Code	Course Name	Credits
Generic Electives (GE)	I	GEC0101	Chemistry in daily life	03
	II	GEC0201	Disinfection and Sterilization	03
	III	GEC0301	Forensic psychology	03
	IV	GEC0401	Basic concept of pharmaceutical chemistry	03
Total Credits Generic Electives (GE)				12

V

Category		Semester	Course Code	Course Name	Credits
Ability & Skill Enhancement (AEC + SEC)		I	AEC0101	Hindi	02
		II	AEC0201	English –I	02
		III	AEC0301	English-2	02
		IV	AEC0401	Hindi Language & Moral Values – II	02
		I	SEC0101	Bioinstrumentation	03
		II	SEC0201	Environmental studies	03
		III	SEC0301	Numerical methods with programming	03
		IV	SEC0401	Disaster management	03
		V	SEC0501	Statistical methods	03
		VI	SEC0601	Meditation and yoga	03
Total (AEC+SEC) Credits					26

Category	Semester	Course Code	Course Name	Credits
Discipline-Specific Electives(DSE)	V	DSE0501	AI and its Application	03
	VI	DSE0601	Cloud Computing	03
	VI	DSE0602	Ethical Hacking Fundamental	04
	VI	DSE0603	Mobile Application Development	04
	VII	DSE0701	Cyber laws	03
	VII	DSE0702	Image processing	04
	VIII	DSE0801	Digital Marketing	03
Total DSE Credits				21

Category	Semester	Course Code	Course Name	Credits
MOOC (Massive Open Online Courses)	II	MOOC1	MOOC Course	4
	III	MOOC2	MOOC Course	4
	IV	MOOC3	MOOC Course	3
	V	MOOC4	MOOC Course	4
Total MOOC Credits				15



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"CELEBRATING DREAMS"

Category	Semester	Course Code	Course Name	Credits
IKS (Indian Knowledge System)	II	IKS201	India in the 21st Century	2
	III	IKS301	Making in Morden India	2
Total IKS Credits				4

Summary of Total Credits:

Category	Total Credits
Total Core Computer Science Credits	56
Mathematics and Logical Foundation Credits	28
Generic Electives (GE) Credits	12
(AEC+SEC) Credits	26
Discipline-Specific Electives(DSE) Credits	21
MOOC Credits	15
IKS Credits	04
Internships, Field Projects, and Applied Components (FP/In/AP) credits	18
Research & Dissertation credits	12