

### Name of the Department : Computer Science

Odd Semester	Type of the Course	Name of Course	UPC	Credits	Link of DU site having the course syllabus	Page Number of syllabus	Even Semester	Type of the Course	Name of Course	UPC	Credits	Link of DU site having the course syllabus	Page Number of syllabus
Semester 1	Core 1	Object Oriented Programming using Python	2342011104	4	<a href="https://drive.google.com/file/d/1yfTGVnMOT81Z0YNc1ZiN4yDx4A9o8ynj/view?usp=drive_link">https://drive.google.com/file/d/1yfTGVnMOT81Z0YNc1ZiN4yDx4A9o8ynj/view?usp=drive_link</a>	81	Semester 2	Core 4	Programming with C++	2342011204	4	<a href="https://drive.google.com/file/d/1yfTGVnMOT81Z0YNc1ZiN4yDx4A9o8ynj/view?usp=drive_link">https://drive.google.com/file/d/1yfTGVnMOT81Z0YNc1ZiN4yDx4A9o8ynj/view?usp=drive_link</a>	87
	Core 2	Computer System Architecture	2342011102	4	<a href="https://drive.google.com/file/d/1yfTGVnMOT81Z0YNc1ZiN4yDx4A9o8ynj/view?usp=drive_link">https://drive.google.com/file/d/1yfTGVnMOT81Z0YNc1ZiN4yDx4A9o8ynj/view?usp=drive_link</a>	90		Core 5	Discrete Mathematical Structures	2342011202	4	<a href="https://www.du.ac.in/uploads/new-web/13032023_65_Math_SC.pdf">https://www.du.ac.in/uploads/new-web/13032023_65_Math_SC.pdf</a>	33
	Core 3	Mathematics for Computing	2342011103	4	<a href="https://www.du.ac.in/uploads/new-web/15092023_Maths_NEP.pdf">https://www.du.ac.in/uploads/new-web/15092023_Maths_NEP.pdf</a>	55		Core 6	Probability for Computing	2342011203	4	<a href="https://www.du.ac.in/uploads/new-web/13032023_65_Math_SC.pdf">https://www.du.ac.in/uploads/new-web/13032023_65_Math_SC.pdf</a>	35
	GE 1 a	Programming Using Python	2344001103	4	<a href="https://www.du.ac.in/uploads/new-web/13092022_Appendix-85.pdf">https://www.du.ac.in/uploads/new-web/13092022_Appendix-85.pdf</a>	6		GE 2 a	Data Analysis and Visualization using Python	2344001201	4	<a href="https://drive.google.com/file/d/1yfTGVnMOT81Z0YNc1ZiN4yDx4A9o8ynj/view?usp=drive_link">https://drive.google.com/file/d/1yfTGVnMOT81Z0YNc1ZiN4yDx4A9o8ynj/view?usp=drive_link</a>	100
	GE 1 b	Programming Using C++	2344001101	4	<a href="https://drive.google.com/file/d/1yfTGVnMOT81Z0YNc1ZiN4yDx4A9o8ynj/view?usp=drive_link">https://drive.google.com/file/d/1yfTGVnMOT81Z0YNc1ZiN4yDx4A9o8ynj/view?usp=drive_link</a>	87		GE 2 b	Data Analysis and Visualization using Spreadsheet	2344001202	4	<a href="https://www.du.ac.in/uploads/new-web/13032023_65_Math_SC.pdf">https://www.du.ac.in/uploads/new-web/13032023_65_Math_SC.pdf</a>	50
	SEC 1	Front End Web Designing Tools		2	<a href="https://www.du.ac.in/uploads/new-web/28032023_SEC.pdf">https://www.du.ac.in/uploads/new-web/28032023_SEC.pdf</a>	97		SEC 2	Cyber Sphere and Security : Global Concern	3206000001	2	<a href="https://www.du.ac.in/uploads/new-web/28032023_SEC.pdf">https://www.du.ac.in/uploads/new-web/28032023_SEC.pdf</a>	279
	VAC 1	Science and Society	6967000015	2	<a href="https://www.du.ac.in/uploads/new-web/26102022_VAC.pdf">https://www.du.ac.in/uploads/new-web/26102022_VAC.pdf</a>	45		VAC 2	Digital Empowerment		2	<a href="https://www.du.ac.in/uploads/new-web/26102022_VAC.pdf">https://www.du.ac.in/uploads/new-web/26102022_VAC.pdf</a>	11
Semester 3	Core 7	Data Structures	2342012301	4	<a href="https://drive.google.com/file/d/1yFTGvNjView?usp=drive_link">https://drive.google.com/file/d/1yFTGvNjView?usp=drive_link</a>	94	Semester 4	Core 10	Design and Analysis of Algorithms	2342012401	4	<a href="https://drive.google.com/file/d/1yfTGVnMOT81Z0YNc1ZiN4yDx4A9o8ynj/view?usp=drive_link">https://drive.google.com/file/d/1yfTGVnMOT81Z0YNc1ZiN4yDx4A9o8ynj/view?usp=drive_link</a>	113
	Core 8	Operating System	2342012302	4	<a href="https://drive.google.com/file/d/1yfTGVnMOT81Z0YNc1ZiN4yDx4A9o8ynj/view?usp=drive_link">https://drive.google.com/file/d/1yfTGVnMOT81Z0YNc1ZiN4yDx4A9o8ynj/view?usp=drive_link</a>	107		Core 11	Database Management Systems	2342012402	4	<a href="https://drive.google.com/file/d/1yfTGVnMOT81Z0YNc1ZiN4yDx4A9o8ynj/view?usp=drive_link">https://drive.google.com/file/d/1yfTGVnMOT81Z0YNc1ZiN4yDx4A9o8ynj/view?usp=drive_link</a>	104
	Core 9	Artificial Intelligence	2342012304	4	<a href="https://www.du.ac.in/uploads/new-web/21082025_Bsc.pdf">https://www.du.ac.in/uploads/new-web/21082025_Bsc.pdf</a>	240		Core 12	Computer Networks	2342012403	4	<a href="https://drive.google.com/file/d/1yfTGVnMOT81Z0YNc1ZiN4yDx4A9o8ynj/view?usp=drive_link">https://drive.google.com/file/d/1yfTGVnMOT81Z0YNc1ZiN4yDx4A9o8ynj/view?usp=drive_link</a>	110
	GE 3 a	Database Management Systems	2344002001	4	<a href="https://drive.google.com/file/d/1yfTGVnMOT81Z0YNc1ZiN4yDx4A9o8ynj/view?usp=drive_link">https://drive.google.com/file/d/1yfTGVnMOT81Z0YNc1ZiN4yDx4A9o8ynj/view?usp=drive_link</a>	104		GE 4 a	Data Structures using Python	2344002024	4	<a href="https://drive.google.com/file/d/1yfTGVnMOT81Z0YNc1ZiN4yDx4A9o8ynj/view?usp=drive_link">https://drive.google.com/file/d/1yfTGVnMOT81Z0YNc1ZiN4yDx4A9o8ynj/view?usp=drive_link</a>	94
	GE 3 b	Java Programming	2344002002		<a href="https://www.du.ac.in/uploads/new-web/06062023_87_notification_Math_SC.pdf">https://www.du.ac.in/uploads/new-web/06062023_87_notification_Math_SC.pdf</a>	24		GE 4 b	INTRODUCTION TO WEB PROGRAMMING	2344002004	4	<a href="https://www.du.ac.in/uploads/new-web/21092023_Maths.pdf">https://www.du.ac.in/uploads/new-web/21092023_Maths.pdf</a>	256
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	DSE 1	Andriod Programming Using Java		4	<a href="https://www.du.ac.in/uploads/new-web/21082025_Bsc.pdf">https://www.du.ac.in/uploads/new-web/21082025_Bsc.pdf</a>	240		DSE 2	Data Analysis and Visualization using Python		4	<a href="https://www.du.ac.in/uploads/new-web/21082025_Bsc.pdf">https://www.du.ac.in/uploads/new-web/21082025_Bsc.pdf</a>	240
	DSE 1	Cyber Security		4	<a href="https://www.du.ac.in/uploads/new-web/21082025_Bsc.pdf">https://www.du.ac.in/uploads/new-web/21082025_Bsc.pdf</a>	240		DSE 2	Artificial Intelligence		4	<a href="https://www.du.ac.in/uploads/new-web/21082025_Bsc.pdf">https://www.du.ac.in/uploads/new-web/21082025_Bsc.pdf</a>	240
	DSE 1	Artificial Intelligence		4	<a href="https://www.du.ac.in/uploads/new-web/21082025_Bsc.pdf">https://www.du.ac.in/uploads/new-web/21082025_Bsc.pdf</a>	240		DSE 2	Combinatorial Optimization	2343012006	4	<a href="https://www.du.ac.in/uploads/new-web/21082025_Bsc.pdf">https://www.du.ac.in/uploads/new-web/21082025_Bsc.pdf</a>	240
	DSE 1	Data Mining		4	<a href="https://www.du.ac.in/uploads/new-web/21082025_Bsc.pdf">https://www.du.ac.in/uploads/new-web/21082025_Bsc.pdf</a>	240		DSE 2	Introduction to Web Programming		4	<a href="https://www.du.ac.in/uploads/new-web/21082025_Bsc.pdf">https://www.du.ac.in/uploads/new-web/21082025_Bsc.pdf</a>	240
	DSE 1	Object Oriented Programming using Python,							Graph Theory			<a href="https://www.du.ac.in/uploads/new-web/21082025_Bsc.pdf">https://www.du.ac.in/uploads/new-web/21082025_Bsc.pdf</a>	240
	SEC 3	Advanced Spreadsheet Tools		2	<a href="https://www.du.ac.in/uploads/new-web/28032023_SEC.pdf">https://www.du.ac.in/uploads/new-web/28032023_SEC.pdf</a>	53		SEC 4	Back-end web development		2	<a href="https://www.du.ac.in/uploads/new-web/28032023_SEC.pdf">https://www.du.ac.in/uploads/new-web/28032023_SEC.pdf</a>	100
	VAC 3	Financial Literacy	6967000008	2	<a href="https://www.du.ac.in/uploads/new-web/26102022_VAC.pdf">https://www.du.ac.in/uploads/new-web/26102022_VAC.pdf</a>	26		VAC 4	Social and Emotional learning	6967000016	2	<a href="https://www.du.ac.in/uploads/new-web/26102022_VAC.pdf">https://www.du.ac.in/uploads/new-web/26102022_VAC.pdf</a>	51
Semester 5	Core 13	Algorithms and Advanced Data structures	2342013501	4	<a href="https://www.du.ac.in/uploads/new-web/21092023_Maths.pdf">https://www.du.ac.in/uploads/new-web/21092023_Maths.pdf</a>	270	Semester 6	Core 16	Artificial Intelligence	2342013601	4	<a href="https://drive.google.com/file/d/1yfTGVnMOT81Z0YNc1ZiN4yDx4A9o8ynj/view?usp=drive_link">https://drive.google.com/file/d/1yfTGVnMOT81Z0YNc1ZiN4yDx4A9o8ynj/view?usp=drive_link</a>	131
	Core 14	Theory of Computation	2342013502	4	<a href="https://www.du.ac.in/uploads/new-web/21092023_Maths.pdf">https://www.du.ac.in/uploads/new-web/21092023_Maths.pdf</a>	272		Core 17	Machine Learning	2342013602	4	<a href="https://drive.google.com/file/d/1yfTGVnMOT81Z0YNc1ZiN4yDx4A9o8ynj/view?usp=drive_link">https://drive.google.com/file/d/1yfTGVnMOT81Z0YNc1ZiN4yDx4A9o8ynj/view?usp=drive_link</a>	128

	Core 15	Software Engineering	2342013503	4	<a href="https://www.du.ac.in/uploads/new-web/21092023_Maths.pdf">https://www.du.ac.in/uploads/new-web/21092023_Maths.pdf</a>	274		Core 18	Cloud Computing	2342013603	4	<a href="https://www.du.ac.in/uploads/new-web/21092023_Maths.pdf">https://www.du.ac.in/uploads/new-web/21092023_Maths.pdf</a>	310
	GE 5 a	Operating Systems	2344000005	4	<a href="https://www.du.ac.in/uploads/new-web/21092023_Maths.pdf">https://www.du.ac.in/uploads/new-web/21092023_Maths.pdf</a>	284		GE 6 a	Computer Networks	2344000020	4	<a href="https://drive.google.com/file/d/1yftGVnM0T81Z0YNc1ZIN4yDx4A9o8ynI/view?usp=drive_link">https://drive.google.com/file/d/1yftGVnM0T81Z0YNc1ZIN4yDx4A9o8ynI/view?usp=drive_link</a>	110
	GE 5 b	Advanced Web Programming	2344000006	4	<a href="https://www.du.ac.in/uploads/new-web/21092023_Maths.pdf">https://www.du.ac.in/uploads/new-web/21092023_Maths.pdf</a>	286		GE 6 b	INTERNET TECHNOLOGIES: WB APP DESIGN AND DEVELOPMENT	2344000021		<a href="https://www.du.ac.in/uploads/new-web/21092023_Maths.pdf">https://www.du.ac.in/uploads/new-web/21092023_Maths.pdf</a>	325
								GE 6 c	ARTIFICIAL INTELLIGENCE	2344000022		<a href="https://www.du.ac.in/uploads/new-web/21092023_Maths.pdf">https://www.du.ac.in/uploads/new-web/21092023_Maths.pdf</a>	327
								DSE 4	CLOUD COMPUTING	2343010019		<a href="https://www.du.ac.in/uploads/new-web/21092023_Maths.pdf">https://www.du.ac.in/uploads/new-web/21092023_Maths.pdf</a>	320
								DSE 4	ETHICAL HACKING	2343010018		<a href="https://www.du.ac.in/uploads/new-web/21092023_Maths.pdf">https://www.du.ac.in/uploads/new-web/21092023_Maths.pdf</a>	318
								DSE 4	DEEP LEARNING	2343010017		<a href="https://www.du.ac.in/uploads/new-web/21092023_Maths.pdf">https://www.du.ac.in/uploads/new-web/21092023_Maths.pdf</a>	316
	DSE 3	UNIX NETWORK PROGRAMMING	2343010011	4	<a href="https://www.du.ac.in/uploads/new-web/21092023_Maths.pdf">https://www.du.ac.in/uploads/new-web/21092023_Maths.pdf</a>	281		DSE 4	COMPUTER GRAPHICS	2343010016		<a href="https://www.du.ac.in/uploads/new-web/21092023_Maths.pdf">https://www.du.ac.in/uploads/new-web/21092023_Maths.pdf</a>	314
	DSE 3	DATA MINING-II	2343010009	4	<a href="https://drive.google.com/file/d/1yFTGVnM0T81Z0YNc1ZIN4yDx4A9o8ynI/view?usp=drive_link">https://drive.google.com/file/d/1yFTGVnM0T81Z0YNc1ZIN4yDx4A9o8ynI/view?usp=drive_link</a>	119		DSE 4	SOCIAL NETWORK ANALYSIS	2343010015		<a href="https://www.du.ac.in/uploads/new-web/21092023_Maths.pdf">https://www.du.ac.in/uploads/new-web/21092023_Maths.pdf</a>	312
	DSE 3	Data Privacy	2343010010	4	<a href="https://www.du.ac.in/uploads/new-web/21092023_Maths.pdf">https://www.du.ac.in/uploads/new-web/21092023_Maths.pdf</a>	279		DSE 4	Research Methodology	2343010020	4	<a href="https://drive.google.com/file/d/1z1H38b170n5Rv0sK8z-M96sEc-BwiaP/view?usp=drive_link">https://drive.google.com/file/d/1z1H38b170n5Rv0sK8z-M96sEc-BwiaP/view?usp=drive_link</a>	2
	SEC 5	Introduction to Cloud Computing		2	<a href="https://www.du.ac.in/uploads/new-web/28032023_SEC.pdf">https://www.du.ac.in/uploads/new-web/28032023_SEC.pdf</a>	110		SEC 6	Digital Marketing		2	<a href="https://www.du.ac.in/uploads/new-web/28032023_SEC.pdf">https://www.du.ac.in/uploads/new-web/28032023_SEC.pdf</a>	72
Semester 7	Core 19	Compiler Design		4	<a href="https://drive.google.com/file/d/1HzdxayBC8eBxcVwy-Wd0tROvVtjVlu6B/view?usp=drive_link">https://drive.google.com/file/d/1HzdxayBC8eBxcVwy-Wd0tROvVtjVlu6B/view?usp=drive_link</a>	152	Semester 8	Core 20	Information Security			<a href="https://drive.google.com/file/d/1HzdxayBC8eBxcVwy-Wd0tROvVtjVlu6B/view?usp=drive_link">https://drive.google.com/file/d/1HzdxayBC8eBxcVwy-Wd0tROvVtjVlu6B/view?usp=drive_link</a>	193
	DSE 7 a	Deep Learning		4	<a href="https://drive.google.com/file/d/1HzdxayBC8eBxcVwy-Wd0tROvVtjVlu6B/view?usp=drive_link">https://drive.google.com/file/d/1HzdxayBC8eBxcVwy-Wd0tROvVtjVlu6B/view?usp=drive_link</a>	161		DSE 8 a	Information and Image Retrieval			<a href="https://drive.google.com/file/d/1HzdxayBC8eBxcVwy-Wd0tROvVtjVlu6B/view?usp=drive_link">https://drive.google.com/file/d/1HzdxayBC8eBxcVwy-Wd0tROvVtjVlu6B/view?usp=drive_link</a>	197
	DSE 7 b	Cyber Forensic		4	<a href="https://drive.google.com/file/d/1HzdxayBC8eBxcVwy-Wd0tROvVtjVlu6B/view?usp=drive_link">https://drive.google.com/file/d/1HzdxayBC8eBxcVwy-Wd0tROvVtjVlu6B/view?usp=drive_link</a>	164		DSE 8 b	Natural Language Processing			<a href="https://drive.google.com/file/d/1HzdxayBC8eBxcVwy-Wd0tROvVtjVlu6B/view?usp=drive_link">https://drive.google.com/file/d/1HzdxayBC8eBxcVwy-Wd0tROvVtjVlu6B/view?usp=drive_link</a>	200
	DSE 7 c	DIGITAL IMAGE PROCESSING			<a href="https://drive.google.com/file/d/1HzdxayBC8eBxcVwy-Wd0tROvVtjVlu6B/view?usp=drive_link">https://drive.google.com/file/d/1HzdxayBC8eBxcVwy-Wd0tROvVtjVlu6B/view?usp=drive_link</a>	155		DSE 8 c	Blockchain and Its Applications			<a href="https://drive.google.com/file/d/1HzdxayBC8eBxcVwy-Wd0tROvVtjVlu6B/view?usp=drive_link">https://drive.google.com/file/d/1HzdxayBC8eBxcVwy-Wd0tROvVtjVlu6B/view?usp=drive_link</a>	204
	DSE 7 d	Advanced Algorithms			<a href="https://drive.google.com/file/d/1HzdxayBC8eBxcVwy-Wd0tROvVtjVlu6B/view?usp=drive_link">https://drive.google.com/file/d/1HzdxayBC8eBxcVwy-Wd0tROvVtjVlu6B/view?usp=drive_link</a>	159		DSE 8 d	Distributed Algorithms			<a href="https://drive.google.com/file/d/1HzdxayBC8eBxcVwy-Wd0tROvVtjVlu6B/view?usp=drive_link">https://drive.google.com/file/d/1HzdxayBC8eBxcVwy-Wd0tROvVtjVlu6B/view?usp=drive_link</a>	207
								DSE 8 e	Cloud Computing			<a href="https://drive.google.com/file/d/1HzdxayBC8eBxcVwy-Wd0tROvVtjVlu6B/view?usp=drive_link">https://drive.google.com/file/d/1HzdxayBC8eBxcVwy-Wd0tROvVtjVlu6B/view?usp=drive_link</a>	209
	GE 7 a	Design and Analysis of Algorithms		4	<a href="https://drive.google.com/file/d/1HzdxayBC8eBxcVwy-Wd0tROvVtjVlu6B/view?usp=drive_link">https://drive.google.com/file/d/1HzdxayBC8eBxcVwy-Wd0tROvVtjVlu6B/view?usp=drive_link</a>	183		GE 8 a	Information Security			<a href="https://drive.google.com/file/d/1HzdxayBC8eBxcVwy-Wd0tROvVtjVlu6B/view?usp=drive_link">https://drive.google.com/file/d/1HzdxayBC8eBxcVwy-Wd0tROvVtjVlu6B/view?usp=drive_link</a>	214
	GE 7 b	Computer Networks			<a href="https://drive.google.com/file/d/1HzdxayBC8eBxcVwy-Wd0tROvVtjVlu6B/view?usp=drive_link">https://drive.google.com/file/d/1HzdxayBC8eBxcVwy-Wd0tROvVtjVlu6B/view?usp=drive_link</a>	167		GE 8 b	Digital Marketing and Social Media Analytics			<a href="https://drive.google.com/file/d/1HzdxayBC8eBxcVwy-Wd0tROvVtjVlu6B/view?usp=drive_link">https://drive.google.com/file/d/1HzdxayBC8eBxcVwy-Wd0tROvVtjVlu6B/view?usp=drive_link</a>	217
	GE 7 c	Mobile App Design and Development			<a href="https://drive.google.com/file/d/1HzdxayBC8eBxcVwy-Wd0tROvVtjVlu6B/view?usp=drive_link">https://drive.google.com/file/d/1HzdxayBC8eBxcVwy-Wd0tROvVtjVlu6B/view?usp=drive_link</a>	170		GE 8 c	Introduction to Parallel programming			<a href="https://drive.google.com/file/d/1HzdxayBC8eBxcVwy-Wd0tROvVtjVlu6B/view?usp=drive_link">https://drive.google.com/file/d/1HzdxayBC8eBxcVwy-Wd0tROvVtjVlu6B/view?usp=drive_link</a>	221

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	GE 7 e	Cloud Computing		<a href="https://drive.google.com/file/d/1HzdxayBC8eBxcVwy-Wd0tROvVtjVlu6B/view?usp=drive_link">https://drive.google.com/file/d/1HzdxayBC8eBxcVwy-Wd0tROvVtjVlu6B/view?usp=drive_link</a>	176						
	GE 7 f	ETHICAL HACKING		<a href="https://drive.google.com/file/d/1HzdxayBC8eBxcVwy-Wd0tROvVtjVlu6B/view?usp=drive_link">https://drive.google.com/file/d/1HzdxayBC8eBxcVwy-Wd0tROvVtjVlu6B/view?usp=drive_link</a>	180						
		Research/Project/Internship 1						Research/Project/Internship 2			