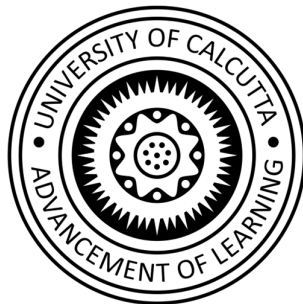




University of Calcutta

**4 - Years B.Sc degree
program in Computer
Application under credit
framework (CCF).**

**Semester – I, II, III IV, V,
VI, VII and VIII
(Core-Vocational)**

Structure of 4-Year B.Sc. program in Computer Application (Core Vocational).

Semester	Paper Code	Theory Paper	Practical	Modality of Practical	SEC	Practical	Modality of Practical
I	DSCC-1	Computer fundamentals and Digital Logic Credit-3	Digital logic Circuit Lab Credit-1	Full Marks = 25 Experiment =15 Viva = 05 LNB = 05 * in house	Data visualization using spreadsheet. Credit-2	Data visualization using spreadsheet Credit-2	Full Marks = 50 Experiment = 30 Viva-Voce = 10 LNB = 10 * In house
II	DSCC-2	Problem Solving using C. Credit-3	Problem Solving using C Lab. Credit-1	Full Marks = 25 Experiment =15 Viva = 05 LNB = 05 * in house	Web Development. Credit-2	Web Development lab. Credit-2	Full Marks = 50 Experiment = 30 Viva-Voce = 10 LNB = 10 * in house
III	DSCC-3	Data Structure Credit-3	Data structure lab Credit-1	Full Marks = 25 Experiment =15 Viva = 05 LNB = 05 * in house	Mobile App Development Credit-2	Mobile App Development Lab Credit-2	Full Marks = 50 Experiment = 30 Viva-Voce = 10 LNB = 10 * in house`
	DSCC-4	Programing in Python. Credit-3	Python lab Credit-1				

Semester	Paper Code	Theory Paper	Credit	Practical/Lab	Credit	Modality of Practical
IV	DSCC-5	Multimedia and Its Application	3	Multimedia Lab	1	Full Marks = 25 Experiment =15 Viva = 05 LNB = 05 * in house
	DSCC-6	Computer Architecture & Organization	3	Computer Architecture & Organization Lab	1	
	DSCC-7	Database Management system	3	RDBMS Lab	1	
	DSCC-8	Object Oriented Programming	3	OOPs using Java	1	

Semester	Paper Code	Theory Paper	Credit	Practical/Lab	Credit	Modality of Practical
V	DSCC-9	Data Communication and Networking	3	Computer Networking Lab	1	Full Marks = 25 Experiment =15 Viva-Voce = 05 LNB = 05 * in house
	DSCC-10	Introduction to Algorithms	3	Lab using C	1	
	DSCC-11	Operating System	3	Operating Systems Lab	1	
	DSCC-12	Mathematical Methods	3	Lab using Python	1	
VI	DSCC-13	Introduction to Machine learning	3	ML Lab	1	Full Marks = 25 Experiment =15 Viva-Voce = 05 LNB = 05 * in house
	DSCC-14	Embedded systems	3	Embedded systems lab	1	
	DSCC-15	Software Engineering	3	Software Engineering Lab	1	
VII		Internship (Twelve weeks)	Credit - 16			
	DSCC-16	Cryptography and Cyber Security	3	Cryptography and Cyber Security Lab using Python	1	Full Marks = 25 Experiment =15 Viva-Voce = 05 LNB = 05 * in house
VIII		Project	16	Project presentation/Viva	4	