

## Courses Offered By Department of Computer Science, Miranda House w.e.f. 2025-2026

Sem	Discipline Specific Core Courses	Discipline Specific Elective Courses	Generic Elective Courses *mandatory	Skill Enhancement Courses	Skill Based Courses
1	Programming Fundamentals Using C++ (2342571101)	NA	*Programming using C++	Not Offering	NA
2	Data Structures (2342571201)		Data Analysis and Visualization Using Spreadsheets	Not Offering	
3	Design and Analysis of Algorithms	Object Oriented Programming using Python	*Database Management Systems (2344002001)	Programming using Python (2346000011)	
4	Operating Systems (2342572401)	Data Analysis and Visualization using Python (2344001201)	*Data Structures Using C++	Programming using Python (2346000011)	
5	Database Management Systems (2342573501)	A DSE by Mathematics Department	*Operating Systems Prerequisites: Knowledge of Programming and Data Structure (2344000005)	Analytics/ Computing with Python Prerequisites: A course in Python	
6	Computer Networks (2342573601)	Research Methodology (2343010020)	*Computer Networks Prerequisites: Knowledge of C/C++/Java/Python	Analytics/ Computing with Python Prerequisites: A course in Python	
7	Design and Analysis of Algorithms (2022 admissions) Software Engineering (2023 admissions onwards)	1) Digital Image Processing 2) Cyber Forensics 3) Machine Learning 4) Social Network Analytics	Machine Learning Prerequisite: Programming using Python	NA	Skill Based Course I
8	Information Security	1) Deep Learning 2) Natural Language Processing 3) Ethical Hacking 4) Cloud Computing	Cyber Forensics		Skill Based Course II

### Important:

- Students must ensure that they fulfil the prerequisites for the course that they opt for
- Students MUST NOT opt for SEC/ VAC that are similar to papers they will study as DSC or DSE or GE

**Students pursuing 3 core discipline program, may develop one of the CORE three disciplines as MAJOR and another one as MINOR.**

**3)** As per the DU Notification date 19 Jun 2025, No.CNC-II/093/1/EC-1275/25/09 regarding 4th Year in multidisciplinary programmes:

For pursuing a discipline as MAJOR the student MUST take 6 DSC and 3 DSE of such core discipline in the FIRST THREE years of her/his UG Degree. Thereafter in the 4th Year the student MUST take 2 DSC, 8 DSE and 2 Skill based courses by earning a total of **80 Credits**.

**4)** As per the DU Notification date 14 Aug 2024, No.Acad.I/DESE/GE/2024/R-4539 regarding DSE/GE discipline as Minor:

For pursuing a discipline as MINOR the student MUST take 6 DSC and 1 DSE of such core discipline in the FIRST THREE years of her/his UG Degree by earning a total of **28 Credits**.