

Courses Offered By Department of Computer Science, Miranda House w.e.f. 2026-2027

Sem	Discipline Specific Core Courses	Discipline Specific Elective Courses	Generic Elective Courses *mandatory	Skill Enhancement Courses	Skill Based Courses
1	Programming Using C++ (2342571102)	NA	Object Oriented Programming using Python	Not Offering	NA
2	Data Structures (2342571201) Prerequisite: Programming using C++		Data Analysis and Visualization using Python (2344001201) Prerequisite: Programming using Python	Not Offering	
3	Design and Analysis of Algorithms (2342572302) Prerequisite: Data Structures	Object Oriented Programming using Python (2343570001)	Database Management Systems (2342571102)	Programming using Python (2346000011)	
4	Operating Systems (2342572401) Prerequisite: Programming using C++ / Python/ Java	Data Analysis and Visualization using Python (2343010035) Prerequisite: Object Oriented Programming using Python	Introduction to Web Programming (2344002004)	Programming using Python (2346000011)	
5	Database Management Systems (2342573501)	<i>A DSE by Mathematics Department</i>	Advanced Web Programming Prerequisite: Knowledge of HTML, CSS	Analytics/ Computing with Python Prerequisites: A course in Python	
6	Computer Networks (2342573601)	Research Methodology (2343010020)	Artificial Intelligence (2344000022)	Analytics/ Computing with Python Prerequisites: A course in Python	
7	Design and Analysis of Algorithms (2342574702) (2023 admissions) Software Engineering (2024 admissions onwards)	1) Social Network Analytics (2343010015) 2) Cyber Forensics (2343010024) 3) Machine Learning (2343010026) 4) Digital Image Processing (2343010027)	Machine Learning (2344000027), Prerequisite: Programming using Python/ Object Oriented Programming using Python	NA	Scientific Writing and Computational Analysis Tools (234167680002)
8	Information Security (2344000031)	1) Deep Learning (2343010017) 2) Natural Language Processing (2343010029) 3) Ethical Hacking (2343010018) 4) Cloud Computing (2343010032)	Information Security (2344000031) Prerequisites: NIL		Software Tools and Techniques (234167680001)

Important:

- 1) Students must ensure that they fulfil the prerequisites for the course that they opt for
- 2) 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**.