UNIVERSITY OF DELHI
DEPARTMENT OF COMPUTER SCIENCE
BACHELOR OF SCIENCE (HONORS) COMPUTER SCIENCE
COURSE STRUCTURE

The Bachelor of Computer Science (Hons) three-year full time Degree Program shall be in six semesters, viz. Semester I, II, III, IV, V and VI.

SEMESTER I

Paper No.	Title	Periods Per week	Sem. Exam. Marks	Internal Assess-ment Marks	Exam. Duration (Hours)
101	Programming Fundamentals	4	80	20	3
102	Discrete Structures	4	80	20	3
103	Calculus – I	4	80	20	3
104	Digital Electronics	4	80	20	3
105	Language: Form and Function	4	80	20	3
106	Practical: Software Lab-based on papers 101, and Software tools (Spreadsheet, Presentation Tools, Internet Application)	8	120	30	6

Lab. exercises based on 103 will form a part of Internal Assessment.

SEMESTER II

Paper No.	Title	Periods Per week	Sem. Exam. Marks	Internal Assess-ment Marks	Exam. Duration (Hours)
201	Data Structures	4	80	20	3
202	Computer Systems Architecture	4	80	20	3
203	Calculus – II	4	80	20	3
204	Probability	4	80	20	3
205	Analog Electronics/Financial Management/Logic	4	80	20	3
206	Practical Software Lab. based on 201	6	80	20	6
207	Practical Digital Electronics Lab. based on 104 of Sem. I)	4	40	10	4

Lab. exercises based on 203 and 204 will form a part of Internal Assessment.

SEMESTER III

Paper No.	Title	Periods Per week	Sem. Exam. Marks	Internal Assess-ment Marks	Exam. Duration (Hours)
301	Algorithms	4	80	20	3
302	System Softwares	4	80	20	3
303	Algebra	4	80	20	3
304	Statistics	4	80	20	3
305	Organizational Behavior	4	80	20	3
306	Practical: Software Lab. based on 301 and 302	8	120	30	8

Lab. exercises based on 303, 304 will form part of Internal Assessment.

SEMESTER IV

Paper No.	Title	Periods Per week	Sem. Exam. Marks	Internal Assess-ment Marks	Exam. Duration (Hours)
401	Operating Systems	4	80	20	3
402	Software Engineering	4	80	20	3
403	Programming Paradigms	4	80	20	3
404	Differential Equations	4	80	20	3
405	English: Technical Communication	4	80	20	3
406	Practical Software Lab. based on 401, 402, 403	8	120	30	8

Lab. exercises based on 404 will form a part of Internal Assessment.

SEMESTER V

Paper No.	Title	Periods Per week	Sem. Exam. Marks	Internal Assess-ment Marks	Exam. Duration (Hours)
501	File Structures and Database Systems	4	80	20	3
502	Computer Networks	4	80	20	3
503	Microprocessor	4	80	20	3
504	Numerical Analysis and Scientific Computing	4	80	20	3
505	Economics	4	80	20	3
506	Practical: Lab. Based on 503	4	40	10	4
507	Practical: Software Lab. based on 501, 502	8	80	20	6

Lab. exercises based on 504 will form a part of Internal Assessment.

SEMESTER VI

Paper No.	Title	Periods Per week	Sem. Exam. Marks	Internal Assess-ment Marks	Exam. Duration (Hours)
601	Theory of Computation	4	80	20	3
602	Networks Programming and Administration	4	80	20	3
603	Computer Graphics	4	80	20	3
604	Operational Research Techniques	4	80	20	3
605	* Elective	4	80	20	3
606	Practical: Software Lab. based on 602, 603, 605	8	120	30	8
607	Project Work – Report	4	80**	20	

*Elective one of the following:
1. Artificial Intelligence
2. Multimedia Applications
** Includes 15 marks for viva-voce