

**Bachelor of Computer Applications
(BCA)**

**Duration: Three Years
Scheme of Examination**

FIRST SEMESTER

Paper Code	Title of Paper	Max. Marks	Internal Assessment	Exam duration Hours
BCA-101	Computer Fundamental and Programming	75	25	3
BCA-102	Mathematics-I	75	25	3
BCA-103	Mathematics-II	75	25	3
BCA-104	Business Practices	75	25	3
BCA-105	Practical Software Lab. (based on Paper BCA-101 and Software Tools)	75	25	6 (two sittings)

SECOND SEMESTER

BCA-106	Data and File Structure	75	25	3
BCA-107	Structured Systems Analysis	75	25	3
BCA-108	Mathematical Foundations of Computer Science	75	25	3
BCA-109	Digital Electronics	75	25	3
BCA-110	Practical Software Lab. (based on Paper BCA-106 and Software Tools)	75	25	6 (two sittings)

Note: Environmental studies have been introduced as a qualifying paper. Students will be required to qualify the same otherwise the final result will not be declared and degree will not be awarded.

Environmental Studies = Theory = 75, Practical = 25, Maximum Marks = 100

THIRD SEMESTER				
BCA-201	Computer System Architecture	75	25	3
BCA-202	Algorithms and Advance Data Structure	75	25	3
BCA-203	Micro-processors and Assembly Language	75	25	3
BCA-204	Data Base Systems	75	25	3
BCA-205	Practical-Software Lab (based on paper BCA-202 and BCA-204)	75	25	6 (two sittings)
FOURTH SEMESTER				
BCA-206	Operating Systems Organisation and UNIX	75	25	3
BCA-207	Software Engineering	75	25	3
BCA-208	Object Oriented Design and programming	75	25	3
BCA-209	Financial Accounting	75	25	3
BCA-210	Practical-Software Lab (based on paper BCA-206 and BCA-208)	75	25	6 (two sittings)
FIFTH SEMESTER				
BCA-301	Data Communication and Networks	75	25	3
BCA-302	Computer Graphics	75	25	3
BCA-303	Principles of Visual and Windows Programming	75	25	3
BCA-304	Jawa Programming and Internet Applications	75	25	3
BCA-305	Practical-Software Lab (based on paper BCA-301, 302, 303 & 304)	75	25	6 (two sittings)

SIXTH SEMESTER				
BCA-306	INTERNET Technologies and applications	75	25	3
BCA-307	Scientific and Statistical Computing	75	25	3
BCA-308	Multimedia Information Systems	75	25	3
BCA-309	Management Information Systems	75	25	3
BCA-310	Practical-Software Lab (based on paper BCA-306, 307 & 308)	75	25	6 (two sittings)

Note: Out of 100 marks for each paper, including Theory, Practicals and Project, 25 marks are reserved for internal assessment with the following distribution:

- > **Assisnments : 15 marks**
- > **Internal Test(s) : 10 marks**