

# **BACHELOR OF COMPUTER APPLICATIONS (BCA)**

SYLLABUS AND SCHEME OF EXAMINATION – 1st YEAR (1st and 2<sup>nd</sup> SEMESTERS)

w.e.f. 2017-18

Period per week : 6 for each theory paper and 6 for each practical group in each semester.

Paper No.	Title of Paper	Max. Marks		Exam Duration
		External	Internal	3 Hours
BCA-101	Computer & Programming Fundamentals	80	20	3 Hours
BCA-102	PC Software	80	20	3 Hours
BCA-103	Mathematics	80	20	3 Hours
BCA-104	Logical Organization of Computer-I	80	20	3 Hours
BCA-105	Practical software Lab–Based on paper BCA-102 i.e. Word, Excel and Power point	80	20	3 Hours

Paper No.	Title of Paper	Max. Marks		Exam Duration
		External	Internal	3Hours
BCA-106	‘C’ Programming	80	20	3Hours
BCA-107	Logical Organization of Computer-II	80	20	3Hours
BCA-108	Mathematical Foundations of Computer Science	80	20	3Hours
BCA-109	Structured System Analysis And Design	80	20	3Hours
BCA-110	Practical software Lab–Based on paper BCA-106, i.e. ‘C’ Programming	80	20	3Hours

**IIIrd Semester**

<b>Paper No.</b>	<b>Title of Paper</b>	<b>Max. Marks</b>		<b>Exam Duration</b>
		<b>External</b>	<b>Internal</b>	
		<b>80</b>	<b>20</b>	<b>3Hours</b>
<b>BCA-201</b>	Introduction to Operating System	<b>80</b>	<b>20</b>	<b>3Hours</b>
<b>BCA-202</b>	Data structures–I	<b>80</b>	<b>20</b>	<b>3Hours</b>
<b>BCA-203</b>	Introduction to database system	<b>80</b>	<b>20</b>	<b>3Hours</b>
<b>BCA-204</b>	Communication skills(English)	<b>80</b>	<b>20</b>	<b>3Hours</b>
<b>BCA-205</b>	Practical software Lab–Based on paper BCA-202 &203 using C Language and SQL	<b>80</b>	<b>20</b>	<b>3Hours</b>

**IVth Semester**

<b>Paper No.</b>	<b>Title of Paper</b>	<b>Max. Marks</b>		<b>Exam Duration</b>
		<b>External</b>	<b>Internal</b>	
		<b>80</b>	<b>20</b>	<b>3Hours</b>
<b>BCA-206</b>	Web Designing	<b>80</b>	<b>20</b>	<b>3Hours</b>
<b>BCA-207</b>	Data Structures– II	<b>80</b>	<b>20</b>	<b>3Hours</b>
<b>BCA-208</b>	Object Oriented Programming Using C++	<b>80</b>	<b>20</b>	<b>3Hours</b>
<b>BCA-209</b>	Software Engineering	<b>80</b>	<b>20</b>	<b>3Hours</b>
<b>BCA-210</b>	Practical software Lab–Based on paper BCA– 206 & 208, i.e.HTML and C++ Programming	<b>80</b>	<b>20</b>	<b>3Hours</b>

Vth Semester				
Paper No.	Title of Paper	Max. Marks		Exam Duration
		External	Internal	
		80	20	3Hours
BCA-301	Management information system	80	20	3Hours
BCA-302	Computer Graphics	80	20	3Hours
BCA-303	Data Communication and Networking	80	20	3Hours
BCA-304	Visual Basic	80	20	3Hours
BCA-305	Practical software Lab–Based on paper BCA-304i.e.Visual Basic	80	20	3Hours

VIth Semester				
Paper No.	Title of Paper	Max. Marks		Exam Duration
		External	Internal	
		80	20	3Hours
BCA-306	E-Commerce	80	20	3Hours
BCA-307	Object Technologies & Programming using Java	80	20	3Hours
BCA-308	Artificial Intelligence	80	20	3Hours
BCA-309	Introductionto.net	80	20	3Hours
BCA-310	Practical software Lab–Basedonpaper-BCA-307&309 usingjava&.net	80	20	3Hours