

**Bachelor in Computer Application (BCA)  
(Humanities and Social Sciences)**

<b>Courses</b>	<b>Credit hours</b>
Computer Application	73[(23 * 3)+(1*4)]
Language courses	9(3*3)
Mathematics and statistics course	9(3 *3)
Social Sciences & Management courses	12(4*3)
Elective course	12(4*3)
Projects	10(2*2+6)
Internships	3
<b>Total Credit Hours</b>	<b>128</b>

**Curriculum Structure**

**First Year/First semester**

<b>Sr.No</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Credit hours</b>
1	HCAC-101	Computer Fundamental and Office Automation	3
2	HENG-102	Foundation course in computing English-I	3
3	HMTH-103	Math-I	3
4	HCAC-104	Programming in C	3
5	HCAC-105	Digital Logic	3
			15

**First Year/Second semester**

<b>Sr.No</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Credit hours</b>
1	HCASO-151	The art of social engagement and Technology	3
2	HENG-152	Technical English	3
3	HMTH-153	Math-II	3
4	HCAC-154	C++ programming	4
5	HCAC-155	OPERATING SYSTEM	3
			16

### **Second Year /Third semester**

<b>Sr.No</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Credit hours</b>
1	HCAC-201	Financial Accounting	3
2	HCAC-202	Data Structures & Algorithm	3
3	HCAC-203	Microprocessor & Assembly language	3
4	HCAC-204	Computer Oriented Numerical Methods	3
5	HCAC-205	Data communication and Computer Networking	3
			15

### **Second Year/ Fourth semester**

<b>Sr.No</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Credit hours</b>
1	HCAC-251	Java programming	3
2	HCAC-252	Database Management System	3
3	HCAC-253	Computer Architecture	3
4	HCAC-254	System Analysis and Design	3
5	HCAC-255	Discrete Structure	3
6	HCAJ-256	Project -I	2
			17

### **Third year / Fifth semester**

<b>Sr.No</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Credit hours</b>
1	HCAC-301	e- Governance	3
2	HCAC-302	Web designing	3
3	HCAEC-303	Applied economics	3
4	HCAST -304	Probability & Statistics	3
5	HCAC-305	.Net Technology	3
			15

### Third Year / Sixth semester

Sr.No	Course Code	Course Title	Credit hours
1	HCAC-351	MIS and e-commerce	3
2	HCAC-352	Cyber law and computer Ethics	3
3	HCAC-353	Software Engineering	3
4	HCAC-354	Advance Java programming	3
5	HCAC-355	Computer Graphic	3
	HCAPI-356	Project- II	2
			17

### Fourth Year/Seven semester

Sr.No	Course Code	Course Title	Credit hours
1	HCAC-401	PROGRAMMING IN PYTHON	3
2	HCAOR-402	Operational Research	3
3	HCANP-403	व्यवहारिक लेखन तथा सम्पादन	3
4	HCAIN-404	Internships	3
5		Elective –I	3
6		Elective –II	3
			18

#### Elective subjects:

Sr.No	Course Code	Course Title
1	HCAC-471	Cloud Computing
2	HCAIT-472	ERP
3	HCAC-473	Artificial Intelligence
4	HCAC-474	GIS
5	HCAC-475	Data Warehousing and Data Mining

### Fourth year/Eight semester

Sr.No	Course Code	Course Title	Credit hours
1	HCAC-451	Mobile programming	3
2	HCAPJ-452	Project – III	6
3		Elective-III	3
4		Elective -IV	3
			15

### Elective Subjects:

Sr.No	Course Code	Course Title
6	HCAC-481	Database Administration
7	HCAC-482	Network management and Administration
8	HCAC-483	Linux Shell Programming
9	HCAC-484	Distributed System
10	HCAC-485	Advance .Net Technology
11	HCAC-486	Big data