

**VIVEKANANDCOLLEGE, KOLHAPUR (EMPOWERED AUTONOMOUS)**

**Department of BCA**

**Course Structure under Three- Years UG Program**

**Department/Subject Specific Core or Major (DSC)**

1. **TITLE:** Bachelor of Computer Application
2. **YEAR OF IMPLEMENTATION:** academic year 2023-24 onwards
3. **EXAMINATION PATTERN:** semester wise for Theory and Practical
4. **STRUCTURE OF COURSE:**

**BCA-I Semester-I & II**

Sr. No.	Course Abbr.	Course code	Course Name	Teaching Scheme Hours/week		Examination Scheme and Marks				Course Credits
				TH	PR	ESE	CIE	PR	Marks	
<b>Semester-I</b>										
1	DSC-I	DSC04COM11	Programming in C –I	2	-	40	10	-	50	2
2	DSC-II	DSC04COM12	Basic Web Technology	2	-	40	10	-	50	2
3	MIN-I	MIN04ACC11	Financial Accounting with Tally-I	2	-	40	10	-	50	2
4	MIN-II	MIN04MGT11	Principles of Management-I	2	-	40	10	-	50	2
5	OEC-I	OEC04MAT11	Mathematics-I	2	-	40	10	-	50	2
6	OEC-II	OEC04STA11	Statistics-I	2	-	40	10	-	50	2
7	AEC-I	AEC04ENG11	English	2	-	40	10	-	50	2
8	IKS-I	IKS04GEC11	Indian knowledge System	2	-	50	-	-	50	2
9	DSC-PR-I	DSC04PRA19	DSCComputerLab-1A		4			50	50	2
10	DSC-PR-II	DSC04PRB19	DSCComputerLab-1B		4			50	50	2
11	OEC-PR-I	OEC04MAT19	OEC-MATHS Lab-1		2			25	25	1
12	OEC-PR-II	OEC04STA19	OEC- STAT Lab-1		2			25	25	1
<b>Total (Semester-I)</b>				<b>16</b>	<b>12</b>	<b>330</b>	<b>70</b>	<b>150</b>	<b>550</b>	<b>22</b>
<b>Semester-II</b>										
1	DSC-III	DSC04COM21	Programming in C- II	2	-	40	10	-	50	2
2	DSC-IV	DSC04COM22	Advance Web Technology	2	-	40	10	-	50	2
3	MIN-III	MIN04ACC21	Financial Accounting with Tally-II	2	-	40	10	-	50	2
4	MIN-IV	MIN04MGT21	Principles of Management-II	2	-	40	10	-	50	2
5	OEC-III	OEC04MAT21	Mathematics-II	2	-	40	10	-	50	2
6	OEC-IV	OEC04STA21	Statistics-II	2	-	40	10	-	50	2
7	SEC-I	SEC04COM21	PHP-I	2	-			50	50	2
8	AEC-II	AEC04ENG21	English	2	-	40	10		50	2
9	DSC-PR-III	DSC04PRA29	DSCComputerLab-2A		4			50	50	2
10	DSC-PR-IV	DSC04PRB29	DSCComputerLab-2B		4			50	50	2
11	OEC-PR-III	OEC04MAT29	OEC-MATHS Lab-2		2			25	25	1
12	OEC-PR-IV	OEC04STA29	OEC- STAT Lab-2		2			25	25	1
<b>Total (Semester-II)</b>				<b>16</b>	<b>12</b>	<b>280</b>	<b>70</b>	<b>200</b>	<b>550</b>	<b>22</b>
<b>Cumulative Total (1<sup>st</sup> Year)</b>				<b>32</b>	<b>24</b>	<b>610</b>	<b>140</b>	<b>350</b>	<b>1100</b>	<b>44</b>

**BCA –II Semester- III & IV**

Sr. No.	Course Abbr.	Course code	Course Name	Teaching Scheme Hours/week		Examination Scheme and Marks				Course Credits
				TH	PR	ESE	CIE	PR	Marks	
<b>Semester-III</b>										
1	DSC-V	DSC04COM31	Object Oriented Programming with C++	2	-	40	10	-	50	2
2	DSC-VI	DSC04COM32	Database Management System	2	-	40	10	-	50	2
3	MIN-V	MIN04MGT31	Entrepreneurship Development	2	-	40	10	-	50	2
4	SEC-II	SEC04COM31	PHP-II	2	-	50	-	-	50	2
5	SEC-III	SEC04COM32	Software Engineering	2	-	50	-	-	50	2
6	SEC-IV	SEC04COM33	AI-I	2	-	50	-	-	50	2
7	AEC-III	AEC04ENG31	English	2	-	40	10	-	50	2
8	VEC-I	VEC04DEG31	Democracy, Election and Good Governance(DEGG)	2	-	50	-	-	50	2
9	VEC-II	VEC04EVS31	Environmental Science-I	2		50				2
10	DSC-PR-V	DSC04PRA39	DSCComputerLab-3A		4			50	50	2
11	DSC-PR-VI	DSC04PRB39	DSCComputerLab-3B		4			50	50	2
	<b>Total (Semester-III)</b>			<b>18</b>	<b>8</b>	<b>410</b>	<b>40</b>	<b>100</b>	<b>550</b>	<b>22</b>
<b>Semester-IV</b>										
1	DSC-VII	DSC04COM41	Data Structure Using C++	2	-	40	10	-	50	2
2	DSC-VIII	DSC04COM42	RDBMS	2	-	40	10	-	50	2
3	MIN-VI	MIN04MGT41	Principles of Marketing	2	-	40	10	-	50	2
4	SEC-V	SEC04COM41	AI-II	2	-	50	-	-	50	2
5	SEC-VI	SEC04COM42	Cyber Security-I	2	-	50	-	-	50	2
6	SEC-VII	SEC04COM43	Cyber Security-II	2	-	50	-	-	50	2
7	AEC-IV	AEC04ENG41	English	2	-	40	10	-	50	2
8	VEC-III	VEC04EVS41	Environmental Science-II	2		50				2
9	CC-I	CC04	Co-curricular Course	2		50				2
10	DSC-PR-VII	DSC04PRA49	DSCComputerLab-4A		4			50	50	2
11	DSC-PR-VIII	DSC04PRB49	DSCComputerLab-4B		4			50	50	2
	<b>Total (Semester-IV)</b>			<b>18</b>	<b>8</b>	<b>410</b>	<b>40</b>	<b>100</b>	<b>550</b>	<b>22</b>
	<b>Cumulative Total (2<sup>nd</sup> Year)</b>			<b>36</b>	<b>16</b>	<b>820</b>	<b>80</b>	<b>200</b>	<b>1100</b>	<b>44</b>

**BCA-III Semester- V & VI**

Sr. No.	Course Abbr.	Course code	Course Name	Teaching Scheme Hours/week		Examination Scheme and Marks				Course Credits
				TH	PR	ESE	CIE	PR	Marks	
<b>Semester-V</b>										
1	DSC-IX	DSC04COM51	ASP.NET with C#	2	-	40	10	-	50	2
2	DSC-X	DSC04COM52	Computer Networking	2	-	40	10	-	50	2
3	DSC-XI	DSC04COM53	Linux	2	-	40	10	-	50	2
4	DSC-XII	DSC04COM54	Software Project Management	2	-	40	10	-	50	2
5	DSE-IA	DSE04COM51	Python	2	-	40	10	-	50	2
	DSE-IB	DSE04COM52	R-Programming							
6	MIN-VII	MIN04MGT51	Management Information System	2	-	40	10	-	50	2
7	FP-I	FPR04COM51	Field Project	-	4	-	-	50	50	2
8	DSC-PR-IX	DSC04PRA59	DSCComputerLab-5A		8			100	100	4
9	DSC-PR-X	DSC04PRB59	DSCComputerLab-5B		8			100	100	4
<b>Total (Semester-V)</b>				<b>12</b>	<b>20</b>	<b>240</b>	<b>60</b>	<b>250</b>	<b>550</b>	<b>22</b>
<b>Semester-VI</b>										
1	DSC-XIII	DSC04COM61	Java Programming	2	-	40	10	-	50	2
2	DSC-XIV	DSC04COM62	Data Warehousing and Data Mining	2	-	40	10	-	50	2
3	DSC-XV	DSC04COM63	Cloud Computing	2	-	40	10	-	50	2
4	DSC-XVI	DSC04COM64	My-Sql	2	-	40	10	-	50	2
5	DSE-IIA	DSE04COM61	Android Programming	2	-	40	10	-	50	2
	DSE-IIB	DSE04COM62	Internet of Things							
6	MIN-VIII	MIN04MGT61	M-Commerce	2	-	40	10	-	50	2
7	OJT-I	OJT04COM61	On Job Training	-	4	-	-	50	50	2
8	DSC-PR-XI	DSC04PRA69	DSCComputerLab-6A		8			100	100	4
9	DSC-PR-XII	DSC04PRB69	DSCComputerLab-6B		8			100	100	4
<b>Total (Semester-VI)</b>				<b>12</b>	<b>20</b>	<b>240</b>	<b>60</b>	<b>250</b>	<b>550</b>	<b>22</b>
<b>Cumulative Total (3<sup>rd</sup> Year)</b>				<b>24</b>	<b>40</b>	<b>480</b>	<b>120</b>	<b>500</b>	<b>1100</b>	<b>44</b>
<b>Three Years UG degree of BCA</b>									<b>3300</b>	<b>132</b>

Abbr. TH-Theory, PR-Practical, ESE- End Semester Examination, CIE-Continuous Internal Examination

Note: Minimum passing for 40 marks Theory paper = 16 marks  
 Minimum passing for 10 marks Internal evaluation = 4 marks  
 Minimum passing for 50 marks Practical = 20 marks  
 Minimum passing for 100 marks Practical = 40 marks  
 Minimum passing for 200 marks Practical = 80 marks  
 Separate passing for every head- ESE, CIE and Practicals