

**SARDAR PATEL UNIVERSITY**  
**Proposed Course Structure : BCA Semester – IV**  
**Effective from Batch : June 2019 (Batch 2018 onwards)**

Type of Course	Course code	Course Title	Credit	Class room/lab hrs per week	Marks			
					External	Exam Duration	Internal	Total
Core 1– Paper – I	US04CBCA21 (T)	Visual Programming	4	4 hrs	70	3 hrs	30	100
	US04CBCA22 (P)	Visual Programming Lab	2	4 hrs	50	2 hrs	-	50
Core 2– Paper – II	US04CBCA23 (T)	Object Oriented Programming - II	4	4 hrs	70	3 hrs	30	100
	US04CBCA24 (P)	Object Oriented Programming - II Lab	2	4 hrs	50	2 hrs	-	50
Core 3 – Paper – I	US04CBCA25 (T)	Data Structures- II	4	4 hrs	70	3 hrs	30	100
	US04CBCA26 (P)	Data Structures- II Lab	2	4 hrs	50	2 hrs	-	50
Core 4– Paper – II	US04CBCA27 (T)	Operating Systems	4	4 hrs	70	3 hrs	30	100
	US04CBCA28 (P)	Operating Systems Lab	2	4 hrs	50	2 hrs	-	50
Ability Enhancement	US04ABCA21 (P)	Fundamentals of Operations Research	2	4 hrs	50	2 hrs	-	50
Skill Enhancement (Any One)	US04SBCA21 (T)	Multimedia Technology	2	2 hrs	35	2 hrs	15	50
	US04SBCA22 (T)	Business Information System	2	2 hrs	35	2 hrs	15	50
	US04SBCA23 (T)	System Software	2	2 hrs	35	2 hrs	15	50
	US04SBCA24 (T)	Artificial Intelligence	2	2 hrs	35	2 hrs	15	50
	US04SBCA25 (T)	Information Security	2	2 hrs	35	2 hrs	15	50
	US04SBCA26 (T)	Software Project Management	2	2 hrs	35	2 hrs	15	50
	<b>Total Credit</b>			<b>28</b>				

\* Skill Enhancement Courses like NCC and NSS can be offered.