

KADI SARVA VISHWAVIDYALAYA, GANDHINAGAR

Bachelor of Engineering Computer Semester 3 Syllabus Structure

Subject Code	Subject Name	Teaching Scheme				Total Credit	Evaluation Scheme					Total Marks
		L (Hrs)	T (Hrs)	P (Hrs)	TOTAL Hrs		Theory Hrs	Marks	IE Marks	CIA Marks	Practical / Viva Marks	
CC 301 B	Discrete Mathematics	3	2	0	5	5	3	70	30	20	0	120
CE 302	Linear Electronics	3	0	2	5	4	3	70	30	20	30	150
CE 303	Data Communication and Networking	3	0	2	5	4	3	70	30	20	30	150
CE 304	Data Structures and Algorithms	3	0	2	5	4	3	70	30	20	30	150
CE 305	Database Management Systems	3	0	2	5	4	3	70	30	20	30	150
CE 306	Object oriented Programming with C++	3	0	2	5	4	3	70	30	20	30	150
Total		18	2	10	30	25	18	420	180	120	150	870

Bachelor of Engineering Computer Semester 4 Syllabus Structure

Subject Code	Subject Name	Teaching Scheme				Total Credit	Evaluation Scheme					Total Marks
		L (Hrs)	T (Hrs)	P (Hrs)	TOTAL Hrs		Theory Hrs	Marks	IE Marks	CIA Marks	Practical / Viva Marks	
CC 401 B	Probability and Numerical Method	3	1	2	6	5	3	70	30	20	30	150
CE 402	Computer Networking	3	0	2	5	4	3	70	30	20	30	150
CE 403/ IT 403	Computer Organization and Architecture	3	0	2	5	4	3	70	30	20	30	150
CE 404/ IT 404	Design and Analysis of Algorithms	3	0	2	5	4	3	70	30	20	30	150
CE 405/ IT 405	Object Oriented Analysis and Design	3	0	2	5	4	3	70	30	20	30	150
CE 406	Unix Shell Programming And System Administration	3	0	2	5	4	3	70	30	20	30	150
Total		18	1	12	31	25	18	420	180	120	180	900

Bachelor of Engineering Computer Semester 5 Syllabus Structure	
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Subject Code	Subject Name	Teaching Scheme				Total Credit	Evaluation Scheme					Total Marks
		L (Hrs)	T (Hrs)	P (Hrs)	TOTAL Hrs		Theory Hrs	Marks	IE Marks	CIA Marks	Practical / Viva Marks	
CC 501	Principles of Management	2	0	0	2	2	3	70	30	20	0	120
CE 502	Advanced Processors	4	0	2	6	5	3	70	30	20	30	150
CE 503 / IT 503	Operating System	4	0	2	6	5	3	70	30	20	30	150
CE 504	System Software	3	0	2	5	4	3	70	30	20	30	150
CE 505 / IT 505	Object Oriented Programming with JAVA	3	0	4	7	5	3	70	30	20	30	150
CE 506	Web Technology	2	0	4	6	4	3	70	30	20	30	150
Total		18	0	14	32	25	18	420	180	120	150	870

Bachelor of Engineering Computer Semester 6 Syllabus Structure

Subject Code	Subject Name	Teaching Scheme				Total Credit	Evaluation Scheme					Total Marks
		L (Hrs)	T (Hrs)	P (Hrs)	TOTAL Hrs		Theory Hrs	Marks	IE Marks	CIA Marks	Practical / Viva Marks	
CE 601	Cryptography & Network Security	3	0	2	5	4	3	70	30	20	30	150
CE 602 / IT 602	Artificial Intelligence	3	0	2	5	4	3	70	30	20	30	150
CE 603	Software Engineering	3	0	2	5	4	3	70	30	20	30	150
CE 604 / IT 604	Theory of Computation	3	0	0	3	3	3	70	30	20	0	120
CE 605 / IT 605	Department Elective-I	3	0	4	7	5	3	70	30	20	30	150
CE 606	Department Elective-II	3	0	4	7	5	3	70	30	20	30	150
Total		18	0	14	32	25	18	420	180	120	150	870
Department Elective-I:	CE 605-1 Advanced Java Programming		Department Elective-II			CE 606-1 Distributed System						
	CE 606-2 Computer Graphics											
	CE 606-3 Parallel Processing											
	CE 606-4 Optimization Techniques											

Bachelor of Engineering Computer Semester 7 Syllabus Structure												
Subject Code	Subject Name	Teaching Scheme				Total Credit	Evaluation Scheme					Total Marks
		L (Hrs)	T (Hrs)	P (Hrs)	TOTAL Hrs		Theory Hrs	Marks	IE Marks	CIA Marks	Practical / Viva Marks	
CE 701	Compiler Design	4	0	2	6	5	3	70	30	20	30	150
CE 702	Next Generation Networks	4	0	2	6	5	3	70	30	20	30	150
CE 703	Department Elective-I	4	0	4	8	6	3	70	30	20	30	150
CE 704 / IT 704	Department Elective-II	4	0	2	6	5	3	70	30	20	30	150
CE 705 / IT 705	Mini Project	0	0	6	6	3	0	0	0	50	100	150
Total		16	0	16	32	24	12	280	120	130	220	750
Department Elective-I:	CE 703-1 Service Oriented Computing		Department Elective-II	CE 704-1 Image Processing								
	CE 703-2 Mobile Application Development With Android			CE 704-2 Embedded Systems								
	CE 703-3 Mobile Application Development With iOS			CE 704-3 Semantic Web								
				CE 704-4 Internet of Things								

Bachelor of Engineering Computer Semester 8 Syllabus Structure												
Subject Code	Subject Name	Teaching Scheme				Total Credit	Evaluation Scheme					Total Marks
		L (Hrs)	T (Hrs)	P (Hrs)	TOTAL Hrs		Theory Hrs	Marks	IE Marks	CIA Marks	Practical / Viva Marks	
CE 801	Big Data Analytics	4	0	2	6	5	3	70	30	20	30	150
CE 802 / IT 802	Department Elective-I	3	0	2	5	4	3	70	30	20	30	150
CE 803 / IT 803	Project	0	0	34	34	17	0	0	0	300	300	600
Total		7	0	38	45	26	6	140	60	340	360	900
Department Elective-I:	CE 802-1 Information Retrieval											
	CE 802-2 High Performance Computing											
	CE 802-3 Soft Computing											