

COCHIN UNIVERSITY OF SCIENCE & TECHNOLOGY

Scheme for I to VIII

B.TECH COMPUTER SCIENCE & ENGINEERING

(2006 Admission onwards)

B.TECH COMPUTER SCIENCE & ENGINEERING

NB: For all practicals from semester I & II to semester VII, 50% weightage is to be given for continuous evaluation and 50% for end semester examination

Semester I & II (Common to all branches)

Course Code	Subject Name	Hrs./ week		Marks		
		L	T/D/P	Internal	University	Total
CE/CS/EB/EC/EE/ EI/IT/ME/SE 101	Engineering Mathematics I	3		50	100	150
CE/CS/EB/EC/EE/ EI/IT/ME/SE 102	Engineering Physics	2		50	100	150
CE/CS/EB/EC/EE/ EI/IT/ME/SE 103	Engineering Chemistry	2		50	100	150
CE/CS/EB/EC/EE/ EI/IT/ME/SE 104	Engineering Mechanics	3	1	50	100	150
CE/CS/EB/EC/EE/ EI/IT/ME/SE 105	Engineering Graphics	1	3	50	100	150
CE/CS/EB/EC/EE/ EI/IT/ME/SE 106	Basic Civil & Mechanical Engineering	2		50	100	150
CE/CS/EB/EC/EE/ EI/IT/ME/SE 107	Basic Electrical Engineering & Electronics	2		50	100	150
CE/CS/EB/EC/EE/ EI/IT/ME/SE 108	Computer Programming	2		50	100	150
CE/CS/EB/EC/EE/ EI/IT/ME/SE 109	Technical Communication & Social Sciences	3*		50	100	150
CE/CS/EB/EC/EE/ EI/IT/ME/SE 110	Computer Programming Lab		3	100		100
CE/CS/EB/EC/EE/ EI/IT/ME/SE 111	Electrical & Mechanical Workshops		3	100		100
	Total	20	10	650	900	1550

* 1 hour/week for environmental studies

Semester III

Course Code	Subject Name	Hrs./ week		Marks		
		L	T/D/P	Internal	University	Total
CE/CS/EB/EC/EE/ EI/IT/ME/SE 301	Engineering Mathematics II	4		50	100	150
CS 302	Logic Design	4		50	100	150
CS/IT 303	Discrete Computational structures	4		50	100	150
CS/IT 304	Object Oriented Programming	4		50	100	150
CS 305	Principles of Programming Languages	4		50	100	150
CS/EB/EE 306	Electronic devices and Circuits	4		50	100	150
CS/EE 307	Electronics Circuits Laboratory	-	3	100		100
CS/IT 308	Object Oriented Programming Lab	-	3	100		100
	Total	24	6	500	600	1100

Semester IV

Course Code	Subject Name	Hrs./ week		Marks		
		L	T/D/P	Internal	University	Total
CE/CS/EB/EC/EE/EI/ IT/ME/SE 401	Engineering Mathematics III	4		50	100	150
CS/EB/EC/EI 402	Microprocessors.	4		50	100	150
CS 403	Computer Architecture & Organization	4		50	100	150
CS/IT 404	Automata, Languages and Computation	4		50	100	150
CS/IT 405	Data Structures and Algorithms	4		50	100	150
CS/IT 406	Data Communication	4		50	100	150
CS/EB/EC/EE 407	Digital Electronics Laboratory	-	3	100		100
CS/IT 408	Data structures Lab	-	3	100		100
Total		24	6	500	600	1100

Semester V

Course Code	Subject Name	Hrs./ week		Marks		
		L	T/D/P	Internal	University	Total
CE/CS/EB/EC/EE/EI/IT/ME/SE 501	Engineering Mathematics IV	4		50	100	150
CS/IT 502	Systems Programming	4		50	100	150
CS/IT 503	Software Engineering	4		50	100	150
CS 504	Computer Graphics	4		50	100	150
CS/IT 505	Database Management System	4		50	100	150
CS/EB 506	Microprocessor based System Design	4		50	100	150
CS/EB/EC/EI 507	Microprocessor Lab	-	3	100		100
CS508	Computer Graphics Lab	-	3	100		100
Total		24	6	500	600	1100

Semester VI

Course Code	Subject Name	Hrs./ week		Marks		
		L	T/D/P	Internal	University	Total
CS 601	Compiler Construction	4		50	100	150
CS /EE 602	Digital Signal Processing	4		50	100	150
CS/IT 603	Operating Systems	4		50	100	150
CS/IT 604	Analysis and Design of Algorithms	4		50	100	150
CS/EB/EC/EI 605	Control Systems Engineering	4		50	100	150
CS/IT 606	Computer networks	4		50	100	150
CS 607	System Programming and Hardware Lab	-	3	100		100
CS 608	Mini Project	-	3	100		100
Total		24	6	500	600	1100

Semester VII

Course Code	Subject Name	Hrs./ week		Marks		
		L	T/D/P	Internal	University	Total
CS/EB/EC/EE/EI/IT 701	Industrial Organization & Management	4		50	100	150
CS 702	Advanced Architecture and Parallel Processing	4		50	100	150
CS/IT 703	Advanced Computer Networks	4		50	100	150
CS/IT 704	Distributed Computing	4		50	100	150
CS705	Elective I	4		50	100	150
CS 706	Language processor Lab	-	3	100		100
CS 707	Network and Operating Systems Lab	-	3	100		100
CS 708	Seminar	-	2	50		50
CS 709	Project Design	-	2	50		50
Total		20	10	550	500	1050

ELECTIVE I:**CS 705 A: Embedded Systems****CS/IT 705 B: Information Retrieval****CS/ EB/IT 705 C: Artificial Neural Networks****CS 705 D: Web Commerce Technologies****Semester VIII**

Subject Code	Subject Name	Hrs./ week		Marks		
		L	T/D/P	Internal	University	Total
CS 801	Security in Computing	4		50	100	150
CS 802	Artificial Intelligence	4		50	100	150
CS 803	Object Oriented Modeling & Design	4		50	100	150
CS 804	Elective II	4		50	100	150
CS 805	Project Work		14	300		300
CS 806	Viva-voce				100	100
Total		16	14	500	500	1000
Grand Total				3700	4300	8000

ELECTIVE II:**CS/EC/EE/EI 804 A: Digital Image Processing****CS/EB/EC/IT 804 B: Bioinformatics****CS 804 C: Software Architecture****CS/IT 804 D: Mobile Computing**