

COCHIN UNIVERSITY OF SCIENCE & TECHNOLOGY

Scheme for I to VIII

B.TECH INFORMATION TECHNOLOGY

(2006 Admission onwards)

B.TECH INFORMATION TECHNOLOGY

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
EC/EB/EI/IT/ ME 302	Electrical Technology	4		50	100	150
CS/IT 303	Discrete Computational structures	4		50	100	150
CS/IT 304	Object Oriented Programming	4		50	100	150
IT 305	Electronic circuits & Logic Design	4		50	100	150
IT 306	Computer Organization	4		50	100	150
IT 307	Logic Design Lab	-	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
IT 402	Microprocessor Architecture & System Design.	4		50	100	150
IT 403	Operations Research	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
IT 407	PC Hardware and Microprocessor Lab	-	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
IT 504	Computer Graphics and Animation	4		50	100	150
CS/IT 505	Database Management Systems	4		50	100	150
IT 506	Knowledge Engineering	4		50	100	150
IT 507	Mini project-RDBMS Based	-	3	100		100
IT 508	Systems Programming 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
IT 601	Financial Management & E-Banking	4		50	100	150
IT 602	Internet programming	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
IT 605	Object Oriented Modeling and Design	4		50	100	150
CS/IT 606	Computer Networks	4		50	100	150
IT 607	Computer Graphics Lab	-	3	100		100
IT 608	Mini Project – Internet based	-	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
IT702	Multimedia Computing	4		50	100	150
CS/IT 703	Advanced Computer Networks	4		50	100	150
CS/IT 704	Distributed Computing	4		50	100	150
IT 705	Elective I	4		50	100	150
IT 706	Computer Network Lab	-	3	100		100
IT 707	Mini Project –Multimedia based	-	3	100		100
IT 708	Seminar	-	2	50		50
IT 709	Project Design	-	2	50		50
Total		20	10	550	500	1050

ELECTIVE I**IT 705 A: Parallel Computer Architecture & Programming****CS/IT 705 B: Information Retrieval****CS/EB/IT 705 C: Artificial Neural Networks****IT 705 D: Cryptography and Data Security****IT 705 E: Data Mining & Warehousing****Semester VIII**

Course Code	Subject Name	Hrs./ week		Marks		
		L	T/D/P	Internal	University	Total
IT 801	Electronic Business and Services	4		50	100	150
IT 802	Real Time Systems	4		50	100	150
IT 803	Software Project Management	4		50	100	150
IT 804	Elective II	4		50	100	150
IT 805	Project Work		14	300		300
IT 806	Viva-voce				100	100
Total		16	14	500	500	1000
Grand Total				3700	4300	8000

ELECTIVE II:**IT 804 A: Software Testing methods & Tools****CS/EB/EC/ IT 804 B: Bioinformatics****IT 804 C: Soft Computing****CS/IT 804 D: Mobile Computing****CS/IT 804 E: Geographical Information Systems**