

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES	
Curriculum for the Programmes under Autonomous Scheme	
Regulation	R 2014
Department	Department of Computer Science and Engineering
Programme Code & Name	G1, B.Tech. CSE

I Year B.Tech

Subject Code	Subject Name	Hours/Week			C	Maximum marks		
		L	T	P		Internal	External	Total
4GC11	English	2	1	0	4	30	70	100
4GC12	Engineering Physics	2	0	0	4	30	70	100
4GC13	Engineering Chemistry	2	0	0	4	30	70	100
4GC14	Mathematics – I	3	1	0	6	30	70	100
4GC15	Mathematical Methods	2	1	0	4	30	70	100
4G513	Engineering Drawing	1	0	3	6	30	70	100
4G111	Programming in C and Data Structures	4	1	0	8	30	70	100
4GC16	Engineering Physics and Chemistry Lab	0	0	3	4	30	70	100
4GC17	English Language and Communication Skills Lab	0	0	3	4	30	70	100
4G112	Programming in C and Data Structures Lab	0	0	6	8	30	70	100
4G411	Engineering and IT workshop	0	0	3	4	30	70	100
Total		16	4	18	56	1100		

Note: L - Lecture; T-Tutorial; P – Practical; C – Credits.

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II B.Tech I Semester

Subject Code	Subject Name	Hours/Week			C	Maximum marks		
		L	T	P		Internal	External	Total
4GC33	Probability & Statistics	4	1	0	4	30	70	100
4G236	Electrical Engineering and Electronics Engineering	4	1	0	4	30	70	100
4G131	Advanced Data Structures Through C++	4	1	0	4	30	70	100
4G132	Digital Logic Design	4	1	0	4	30	70	100
4G133	Principles of Programming Languages	4	1	0	4	30	70	100
4G431	Mathematical Foundations of Computer Science	4	1	0	4	30	70	100
4GC35	Aptitude and Reasoning Skills	0	0	2	2	100	00	100
4G238	Electrical Engineering And Electronics Engineering Lab	0	0	3	2	30	70	100
4G134	Advanced Data Structures Lab Using C++	0	0	3	2	30	70	100
Total		24	6	8	30	900		

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II B.Tech II Semester

Subject Code	Subject Name	Hours/Week			C	Maximum marks		
		L	T	P		Internal	External	Total
4GC43	Environmental Science	4	1	0	4	30	70	100
4G141	Computer Organization	4	1	0	4	30	70	100
4G142	Software Engineering	4	1	0	4	30	70	100
4G144	Object Oriented Programming Through JAVA	4	1	0	4	30	70	100
4G441	Database Management Systems	4	1	0	4	30	70	100
4G143	Formal Languages and Automata Theory	4	1	0	4	30	70	100
4G145	Seminar-1	0	0	2	2	100	00	100
4G146	Object Oriented Programming Through JAVA Lab	0	0	3	2	30	70	100
4G442	Database Management Systems Lab	0	0	3	2	30	70	100
Total		24	6	8	30	900		

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III B.Tech I Semester

Subject Code	Subject Name	Hours/Week			C	Maximum marks		
		L	T	P		Internal	External	Total
4G151	Computer Networks	4	1	0	4	30	70	100
4G152	Operating Systems	4	1	0	4	30	70	100
4G451	Design and Analysis of Algorithms	4	1	0	4	30	70	100
4G452	Web Technologies	4	1	0	4	30	70	100
4G357	Microprocessors and Interfacing	4	1	0	4	30	70	100
4G153	Compiler Design	4	1	0	4	30	70	100
4GC53	English for Competitive Examinations	0	0	2	2	100	00	100
4G154	Web Technologies Lab & Microprocessors and Interfacing Lab	0	0	3	2	30	70	100
4G155	System Programming Lab	0	0	3	2	30	70	100
Total		24	6	8	30	900		

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III B.Tech II Semester

Subject Code	Subject Name	Hours/Week			C	Maximum marks		
		L	T	P		Internal	External	Total
4GA61	Managerial Economics and Financial Analysis	4	1	0	4	30	70	100
4G161	Distributed Systems	4	1	0	4	30	70	100
4G463	Object Oriented Analysis and Design	4	1	0	4	30	70	100
4G162	Cryptography and Network Security	4	1	0	4	30	70	100
4G163	Linux Programming	4	1	0	4	30	70	100
4G164	Computer Graphics	4	1	0	4	30	70	100
4G165	Seminar – II	0	0	2	2	100	00	100
4GC61	Advanced English Communications Skills Lab	0	0	3	2	30	70	100
4G166	Linux Programming & CASE TOOLS Lab	0	0	3	2	30	70	100
Total		24	6	8	30	900		

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IV B.Tech I Semester

Subject Code	Subject Name	Hours/Week			C	Maximum marks		
		L	T	P		Internal	External	Total
4GA71	Management Science	4	1	0	4	30	70	100
4G171	Data Warehousing and Mining	4	1	0	4	30	70	100
4G172	Enterprise Programming	4	1	0	4	30	70	100
4G173	Software Architecture	4	1	0	4	30	70	100
Elective – I		4	1	0	4	30	70	100
Elective – II		4	1	0	4	30	70	100
4G177	Comprehensive Computer Science and Engineering	4	0	0	4	100	-	100
4G178	Data Mining Lab	0	0	2	2	30	70	100
4G179	Enterprise Programming Lab	0	0	3	2	30	70	100
Total		24	6	8	30	900		

LIST OF ELECTIVES		
ELECTIVE – I	4G174	High Performance Computing
	4G175	Advanced Computer Architecture
	4G37B	Embedded Systems
ELECTIVE - II	4G176	Software Project Management
	4G472	Mobile Communications
	4G475	Network Management Systems

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IV B.Tech II Semester

Subject Code	Subject Name	Hours/Week			C	Maximum marks		
		L	T	P		Internal	External	Total
4G481	Design Patterns	4	1	0	4	30	70	100
4G181	Artificial Neural Networks	4	1	0	4	30	70	100
Elective –III		4	1	0	4	30	70	100
Elective - IV		4	1	0	4	30	70	100
4G185	Seminar - III	0	0	2	2	100	00	100
4G186	Project	0	0	1 2	12	30	70	100
Total		16	4	14	30	600		

LIST OF ELECTIVES		
ELECTIVE - III	4G38A	VLSI Design
	4G483	Information Retrieval Systems
	4G182	Virtual Reality
ELECTIVE - IV	4G183	Human Computer Interaction
	4G184	Service Oriented Architecture
	4G487	Software Testing Methodologies