

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY
ANANTAPUR**

**Course structure for B.Tech. (Regular) I year (2009-10) for
affiliated Engineering Colleges.**

**COMPUTER SCIENCE AND ENGINEERING (C.S.E.)
(Common for Branches: E.C.E., E.E.E., E.I.E., C.S.E., I.T.,
C.S.S.E., E.Cont.E., E.C.M.)**

Sl. No	Course code	Subject	Th	Tu/Drg/Lab	Credits
1.	9ABS101	English	2		4
2.	9ABS102	Engineering Physics	2		4
3.	9ABS103	Engineering Chemistry	2		4
4.	9ABS104	Mathematics – I	3	1 - -	6
5.	9A05101	Programming in C and Data Structures	3	1 - -	6
6.	9A03101	Engineering Drawing *		- 6 -	6
7.	9ABS105	Mathematical Methods	3	1 - -	6
8.	9A05102	C Programming & Data Structures Lab		- - 3	4
9.	9A03102	Engineering & I.T. Workshop #		- - 3	4
10.	9ABS106	Engineering Physics and Engineering Chemistry Lab **		- - 3	4
11.	9ABS107	English Language & Communication Skills Lab		- - 3	4
		contact periods/week	15	3 6 12	
			Total/week		36
Total Credits (7 Theory + 4 Labs)					52

Th = Theory; Tu = Tutorial; Drg = Drawing & Lab = Laboratory:

2009-10

* Engineering Drawing will have University External Exam.

** The Students attend the Physics lab and Chemistry lab in alternate weeks. The end exam shall be conducted separately and average of the two exams will be recorded by the University exam section.

Students attend Engineering and IT work shop as a single lab every week and the end exam is conducted as a single lab. Sharing the Maximum marks and time for one task each from Engineering workshop and IT workshop. The sum of the marks awarded will be recorded

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COMPUTER SCIENCE AND ENGINEERING (C.S.E.)

B.Tech II - I Semester

S. No	Course code	Subject	Theory		Lab.	Credits
1.	9ABS304	Probability & Statistics	4			4
2.	9A02306	Basic Electrical Engineering	4			4
3.	9A05301	Mathematical Foundations of Computer Science	4			4
4.	9A05302	Advanced Data Structures	4			4
5.	9A04306	Digital Logic Design	4			4
6.	9A04301	Electronic Devices and Circuits	4			4
7.	9A02307	Electrical and Electronics Lab			3	2
8.	9A05304	Data Structures Lab			3	2
		contact periods/week	24		6	
			Total/Week 30			
Total Credits (6 Theory + 2 Labs)						28

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B.Tech II - II Semester

S. No	Course code	Subject	Theory	Lab.	Credits
1.	9ABS303	Environmental Science	4		4
2.	9A05406	Computer Organization	4		4
3.	9A05401	Database Management Systems	4		4
4.	9A05402	Object Oriented Programming	4		4
5.	9A05407	Formal Languages and Automate Theory	4		4
6.	9A05403	Design and Analysis of Algorithms	4		4
7.	9A05404	Object Oriented Programming Lab		3	2
8.	9A05405	Database Management Systems Lab		3	2
		contact periods/week	24	6	
			Total/Week 30		
Total Credits (6 Theory + 2 Labs)					28

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III Year B.Tech. CSE I Sem

Sl.No	Course Code	Subject	L	T	P	Credits
1.	9A05501	Principles of Programming Languages	4	0	0	4
2.	9A05502	Software Engineering	4	0	0	4
3.	9A05503	Computer Graphics	4	0	0	4
4.	9A05504	Compiler Design	4	0	0	4
5.	9A05505	Operating Systems	4	0	0	4
6.	9A05506	Computer Networks	4	0	0	4
7.	9AHS601	Advanced English Communication Skills Lab	0	0	3	2
8.	9A05507	Computer Networks and Operating Systems Lab	0	0	3	2
		contact periods/week	24	00	06	
			Total/Week 30			
Total Credits (6 Theory + 2 Labs)						28

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III Year B.Tech. CSE II Sem

Sl.No	Course Code	Subject	L	T	P	Credits
1.	9A05601	Object Oriented Analysis and Design	4	0	0	4
2.	9A05602	Unix Internals	4	0	0	4
3.	9A05603	Optimizing Techniques	4	0	0	4
4.	9A04602	Microprocessors and Micro Controllers	4	0	0	4
5.	9A05604	Distributed Systems	4	0	0	4
6.	9A05605	Artificial Intelligence	4	0	0	4
7.	9A19501	Microprocessors and Interfacing Lab	0	0	3	2
8.	9A05606	UNIX Internals Lab	0	0	3	2
		contact periods/week	24	00	06	
			Total/Week 30			
Total Credits (6 Theory + 2 Labs)						28

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IV Year B.Tech. CSE I Sem

Sl.No	Course Code	Subject	L	T	P	Credits
1.	9A05701	Web technologies	4	0	0	4
2.	9A05702	Software testing	4	0	0	4
3.	9AHS401	Managerial Economics and Financial Analysis	4	0	0	4
4.	9A05703 9A05704 9A05705	ELECTIVE – I 1. Grid and cluster computing 2. Advanced computer architecture 3. Software architecture	4	0	0	4
5.	9A05706	Data warehousing and data mining	4	0	0	4
6.	9A05707 9A05708 9A05709	ELECTIVE – II 1. Software project management 2. Network management systems 3. Information security	4	0	0	4
7.	9A05710	Web technologies and data mining lab	0	0	3	2
8.	9A05711	Software testing and CASE tools lab	0	0	3	2
		contact periods/week	24	00	06	
			Total/Week 30			
Total Credits (6 Theory + 2 Labs)						28

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IV Year B.Tech. CSE II Sem

Sl.No	Course Code	Subject	L	T	P	Credits
1.	9AHS701	Management Science	4	0	0	4
2.	9A05801	Design Patterns	4	0	0	4
3.	9A05802 9A05803 9A05804	ELECTIVE – III 1. Service Oriented Architecture 2. Web Services 3. Semantic Web	4	0	0	4
4.	9A05805 9A05806 9A05807	ELECTIVE – IV 1. Storage area Networks 2. Internetworking with TCP/IP 3. Wireless Sensor Networks	4	0	0	4
5.	9A05808	Seminar	-	-	-	2
6.	9A05809	Project Work	-	-	-	10
		contact periods/week	16	00	00	
			Total/Week 16			
Total Credits (4Theory + Seminar + Project Work)						28