

University School of Engineering & Technology

STUDY SCHEME (All Semesters)

Batch 2014

Programme : Engineering

Level : Undergraduate

Course : B.Tech.

**Branch : Computer Science and
Engineering**

SCHEME OF B. TECH. COMPUTER SC. & ENGINEERING

Semester I

Sr. No.	Code	Subject Name	L	T	P	Credit
1	MA1101	Engineering Maths-I	3	1	0	4
2	PY1101	Engineering Physics-I	3	1	2	5
3	EC1101	BEEE	3	0	2	4
4	CH1101	Engineering Chemistry	3	0	0	3
5	ME1001/02	Engineering Drawing /Workshop	1	0	4	3
6	ME1103	Thermodynamics	3	1	0	4
7	CS1101	Computer Fundamentals & Open Source Standards	2	0	2	3
8	HU1101	Effective Communication Skills-I	0	0	2	1
9	TA1101	Industry Exposure-I	0	0	0	2
Total			18	3	12	29

Semester II

Sr. No.	Code	Subject Name	L	T	P	Credit
1	MA1202	Engineering Maths-II	3	1	0	4
2	PY1202	Engineering Physics-II	3	1	2	5
3	CH1202	Engineering Chemistry Lab	0	0	2	1
4	ME1001/02	Engineering Drawing/Workshop	1	0	4	3
5	CS1202	Programming in C	2	0	2	3
6	HU1202	Human Value & Professional Ethics	1	0	2	2
7	HU1203	Effective Communication Skills-II and Team Building	0	0	2	1
8	EC1202	Mechatronics	2	0	2	3
9	TA1202	Industry Exposure-II	0	0	0	2
Total			12	2	16	24

Semester III

Sr. No.	Code	Subject Name	L	T	P	Credit
1	CS2301	Digital Electronics	3	0	0	3
2	CS2302	Object Oriented Programming	3	1	0	4
3	CS2303	Data Structures	4	0	0	4
4	CS2304	Operating System	3	0	0	3
5	MA2305	Maths III	3	1	0	4
6	ES2306	Environmental Studies	2	0	0	2
7	CS2307	Digital Electronics Lab	0	0	2	1
8	CS2308	Object Oriented Programming Lab	0	0	2	1
9	CS2309	Operating System Lab	0	0	2	1
10	CS2310	Data Structures Lab	0	0	2	1
11	FS2311	Intra-Personal Skills and Business Communication	0	0	2	1
12	CS2312	Institutional Training	-	-	-	2
Total			18	2	10	27

Semester IV

Sr. No.	Code	Subject Name	L	T	P	Credit
1	CS2401	Computer Architecture & Organization	3	0	0	3
2	CS2402	Design & Analysis of Algorithm	3	1	0	4
3	CS2403	Microprocessor & Programming	3	0	0	3
4	CS2404	Data Communication & Computer Networks	3	0	0	3
5	MA2405	Discrete Structure	4	1	0	5
6	CS2406	Design & Analysis of Algorithm Lab	0	0	2	1
7	CS2407	Microprocessor & Programming Lab	0	0	2	1
8	CS2408	Data Communication & Computer Networks Lab	0	0	2	1
9	FS2409	Leadership Skills	0	0	2	1
Total			16	2	8	22

Semester V

Sr. No.	Code	Subject Name	L	T	P	Credit
1	CS3501	Software Engineering	3	0	0	3
2	CS3502	Relational Database Management System	4	1	0	5
3	CS3503	Multimedia System	3	0	0	3
4	CS3504	Computer Graphics	4	0	0	4
5	CS3505	Cloud Computing	4	0	0	4
6	CS3506	HRM	3	0	0	3
7	CS3507	Relational Database Management System Lab	0	0	2	1
8	CS3508	Software Engineering Lab	0	0	2	1
9	CS3509	Computer Graphics Lab	0	0	2	1
10	FS3510	Campus to Company	0	0	2	1
11	IE3511	Industrial Training	-	-	-	2
Total			21	1	8	28

Semester VI

Sr. No.	Code	Subject Name	L	T	P	Credit
1	CS3601	Programming in Java	4	1	0	5
2	CS3602	Mobile Applications Development	3	1	0	4
3	CS3603	Theory of Computation	4	1	0	5
4	CS3604	Programming in Java Lab	0	0	4	2
5	CS3605	Mobile Applications Development Lab	0	0	4	2
6	FS3606	Group Discussion, Presentation & Interview	0	0	2	1
7	CS3607	Industry Institute Interface	0	0	0	2
8	CS36XX	Elective I	3	0	0	3
9	CS36XX	Elective II	3	0	0	3
Total			17	3	10	27

Semester VII

Sr. No.	Code	Subject Name	L	T	P	Credit
1	CS4701	Artificial Intelligence & Neural Networks	3	1	0	4
2	CS4702	Web Technology	3	0	0	3
3	CS4703	Unix & Shell Programming	3	1	0	4
4	CS4704	Major Project	0	0	4	2
5	CS4705	Artificial Intelligence & Neutral Networks Lab	0	0	2	1
6	CS4706	Web Technology Lab	0	0	2	1
7	CS4707	Unix & Shell Programming Lab	0	0	2	1
8	CS47XX	Elective III	3	0	0	3
9	CS47XX	Open Elective	3	0	0	3
10	CS47XX	Open Elective Lab	0	0	2	1
Total			15	2	12	23

Semester VIII

Sr. No.	Code	Subject Name	L	T	P	Credit
1	IE4801	Industrial Training	-	-	-	20
Total						20

List of Electives

CS36XX Elective I

- CS3608 Agile Software Engineering
- CS3609 Distributed Databases
- CS3610 Advanced Computer Networks
- CS3611 Advanced Operating System

CS36XX Elective II

- CS3612 Software Testing
- CS3613 Data Mining & Knowledge Management
- CS3614 Network Security & Cryptography
- CS3615 Fundamentals of Machine Learning

CS47XX Elective III

- CS4708 Software Project Management
- CS4709 Natural Language Processing
- CS4710 Digital Image Processing
- CS4711 Big Data Analytics

CS47XX Open Elective

- CS4712 Essential of Information Technology
- CS4713 Software Engineering
- CS4714 Object Oriented Programming
- CS4715 Basics of Mobile Applications Development

CS47XX Open Elective Lab

- CS4716 Essential of Information Technology Lab
- CS4717 Software Engineering Lab
- CS4718 Object Oriented Programming Lab
- CS4719 Basics of Mobile Applications Development Lab