

University School of Engineering & Technology

STUDY SCHEME (All Semesters)

Batch 2015 onwards

Programme: Engineering

Level : Undergraduate

Course : B.Tech.

Branch : Computer Science and

Engineering

Rayat Bahra University

SCHEME OF B. TECH. COMPUTER SC. & ENGINEERING

Semester I

Sr. No.	Code	Subject Name	L	T	P	Credit
1	AM1101	Engineering Maths-I	3	1	0	4
2	PY1102	Engineering Physics-I	3	1	2	5
3	EC1103	BEEE	3	0	2	4
4	CH1104	Engineering Chemistry	3	0	0	3
5	ME1105	Engineering Drawing /Workshop	1	0	4	3
6	ME1106	Basics of Mechanical Engineering	3	1	0	4
7	CS1107	Computer Fundamentals & Open Source Standards	3	0	2	4
				-		4
8	FS1108	Effective Communication Skill	0	0	2	1
9	IE1109	Industry Exposure-I	0	0	0	2
	Total			3	12	30

Semester II

Sr. No.	Code	Subject Name	L	T	P	Credit
1	AM1201	Engineering Maths-II	3	1	0	4
2	PY1202	Engineering Physics-II	3	1	0	4
3	PY1203	Engineering Physics-II(Laboratory)	0	0	2	1
4	EC1204	Mechatronics	3	0	0	3
5	EC1205	Mechatronics(Laboratory)	0	0	2	1
6	CH1206	Engineering Chemistry Lab	0	0	2	1
7	ME1207	Engineering Drawing/Workshop	1	0	4	3
8	CS1208	Programming in C	3	0	0	3
9	CS1209	Programming in C (Lab)	0	0	2	1
10	HV1210	Human Value & Professional Ethics	2	0	0	2
11	FS1211	Effective Communication Skills-II and Team Building	0	0	2	1
12	IE1212	Industry Exposure-II	0	0	0	2
	Total			2	14	26

Semester III

Sr. No.	Code	Subject Name	L	Т	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	Т	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			2	8	22

Semester V

Sr. No.	Code	Subject Name	L	Т	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	Т	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			3	10	27

Semester VII

Sr. No.	Code	Subject Name	L	Т	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					23

Semester VIII

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

List of Electives

CS36XX	K Elect	ive I
	CS3608	Agile Software Engineering
	CS3609	Distributed Databases
	CS3610	Advanced Computer Networks
	CS3611	Advanced Operating System
CS36XX	Electi	ve II
	CS3612	Software Testing
	CS3613	Data Mining & Knowledge Management
	CS3614	Network Security & Cryptography
	CS3615	Fundamentals of Machine Learning
CS47XX	Electi	ve 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	ε
	CS4718	3 8 8
	CS4719	Basics of Mobile Applications Development Lab