

SREENIDHI INSTITUTE OF SCIENCE AND TECHNOLOGY
Electronics and Communication Engineering
B.Tech Course Structure - Autonomous Regulation: 2014-15 (A14)

I Year B. Tech (ECE) – I Sem

S.No.	Subject Code	Subject	L	T	P/D	C	Max Marks	
							Int	Ext
1	4H101	English – I	2	1	-	2	30	70
2	4H111	Engineering Mathematics – I	3	2	-	3	30	70
3	4H121	Engineering Physics – I	3	1	-	3	30	70
4	4H131	Engineering Chemistry-I	3	1	-	3	30	70
5	4F101	Computer Programming	4	1	-	4	30	70
6	4B101	Engineering Drawing – I	2	-	4	4	30	70
7	4H171	English Language Lab – I	-	-	2	1	25	50
8	4H181	Engineering Physics Lab – I	-	-	3/2	1	25	50
9	4H186	Engineering Chemistry Lab	-	-	4/2	2	25	50
10	4F171	Computer Programming Lab	-	-	3	2	25	50
11	4B171	Engineering Workshop -I	-	-	3/2	1	25	50
12	4F172	Information Technology Workshop -I	-	-	3/2	1	25	50
13	4C161	Technical Paper Writing and Seminar –I	-	-	2	1	25	-
Total			17	6	17/18	28	355	720

I Year B. Tech (ECE) – II Sem

S.No.	Subject Code	Subject	L	T	P/D	C	Max Marks	
							Int	Ext
1	4H202	English – II	2	1	-	2	30	70
2	4H213	Engineering Mathematics – II	4	1	-	4	30	70
3	4H222	Engineering Physics – II	3	1	-	3	30	70
4	4E201	Data Structures and C ++	4	1	-	4	30	70
5	4B202	Engineering Drawing – II	2	-	3	3	30	70
6	4A243	Network Analysis	3	1	-	3	30	70
7	4H232	Engineering Chemistry-II	3	1	-	3	30	70
8	4H272	English Language Lab - II	-	-	2	1	25	50
9	4E271	Data Structures and C ++ Lab	-	-	3	2	25	50
10	4B273	Engineering Workshop – II	-	-	3/2	1	25	50
11	4H282	Engineering Physics Lab- II	-	-	3/2	1	25	50
12	4C262	Technical Paper Writing and Seminar –II	-	-	2	1	25	-
Total			21	7	13	28	335	690

II Year B. Tech (ECE) – I Sem

S.No.	Subject Code	Subject	L	T	P/D	C	Max Marks	
							Int	Ext
1	4H315	Engineering Mathematics-III	3	2	-	3	30	70
2	4CC01	Electronic Devices and Circuits	4	1	-	4	30	70
3	4CC02	Switching Theory and Logic Design	4	1	-	4	30	70
4	4C303	Probability Theory and stochastic Process	4	1	-	4	30	70
5	4CC04	Signals and Systems	3	1	-	3	30	70
6	4AC42	Electrical Technology	3	1	-	3	30	70
7	4H373	Functional and Communicative Written English	-	-	3	2	25	50
8	4CC71	Electronic Devices & Circuits Lab	-	-	4	2	25	50
9	4CC72	Basic Simulation Lab	-	-	4/2	1	25	50

10	4AC94	Electrical Technology Lab	-	-	4/2	1	25	50
11	4C363	Technical Paper Writing and Seminar –III	-	-	2	1	25	-
Total			21	7	13	28	305	620

II Year B. Tech (ECE) – II Sem

S.No.	Subject Code	Subject	L	T	P/D	C	Max Marks	
							Int	Ext
1	4CC05	Pulse and Digital Circuits	3	1	-	3	30	70
2	4C406	Analog communications	3	1	-	3	30	70
3	4GC06	Environmental Studies	3	1	-	3	30	70
4	4C407	Electronic Circuit Analysis	3	1	-	3	30	70
5	4CC08	Electromagnetic Theory and Transmission Lines	3	1	-	3	30	70
6		Open Elective – I	3	-	-	3	30	70
7	4HC74	Effective English Communication and Soft Skills	-	-	3	2	25	50
8	4C491	Comprehensive Viva Voce – I	-	-	-	1	-	50
9	4CC73	Pulse and Digital Circuits Lab	-	-	4	2	25	50
10	4CC74	Electronic Circuit Analysis Lab	-	-	4	2	25	50
11	4CC75	Analog Communications Lab	-	-	4	2	25	50
12	4C464	Technical Paper Writing and Seminar –IV	-	-	2	1	25	-
Total			18	5	17	28	305	670

III Year B. Tech (ECE) – I Sem

S.No.	Subject Code	Subject	L	T	P/D	C	Max Marks	
							Int	Ext
1	4CC09	Linear and Digital IC Applications	3	1	-	3	30	70
2	4ZC01	Managerial Economics and Financial Analysis	3	1	-	3	30	70
3	4BC04	Basic Mechanical Engineering	3	1	-	3	30	70
4	4C510	Digital Communications	4	1	-	4	30	70
5	4CC11	Antennas and Wave Propagation	3	1	-	3	30	70
6		Open Elective – II	3	-	-	3	30	70
7	4HC76	Quantitative Aptitude	-	-	3	2	25	50
8	4C592	Group Project	-	-	3	1	25	50
9	4CC76	Linear and Digital IC Applications Lab	-	-	4	2	25	50
10	4C577	Digital Communications Lab	-	-	4	2	25	50
11	4C565	Technical Paper Writing and Seminar –V	-	-	2	1	25	-
Total			20	5	16	28	305	620

III Year B. Tech (ECE) – II Sem

S.No.	Subject Code	Subject	L	T	P/D	C	Max Marks	
							Int	Ext
1	4CC17	Microprocessors, Microcontrollers and Applications	3	1	-	3	30	70
2	4CC12	Digital Signal Processing	3	1	-	3	30	70
3	4DC03	Computer Organization	4	-	-	4	30	70
4	4C622	Digital Design Through Verilog HDL	3	1	-	3	30	70
5	4C613	Microwave Engineering	3	1	-	3	30	70
6		Professional Elective-I	4	1	-	4	30	70
7	4HC77	Logical Reasoning	-	-	3	2	25	50

8	4C693	Comprehensive Viva Voce – II	-	-	-	1	-	50
9	4C682	MPMCA Lab	-	-	4	2	25	50
10	4CC78	DSP Lab	-	-	4	2	25	50
11	4C666	Technical Paper Writing and Seminar -VI	-	-	2	1	25	-
Total			20	5	14	28	280	620

IV Year B. Tech (ECE) – I Sem

S.No.	Subject Code	SUBJECT	L	T	P/D	C	Max. Marks	
							Int	Ext
1	4C718	VLSI Technology and Design	4	-	-	4	30	70
2	4CC15	Cellular and Mobile Communications	3	1	-	3	30	70
3	4ZC02	Management Science	4	-	-	4	30	70
4	4C714	Optical Communications	4	-	-	4	30	70
5	4AC07	Control Systems	4	1	-	4	30	70
6		Professional Elective – II	4	-	-	4	30	70
7	4C794	Project Phase- I	-	-	2	1	50	-
8	4C795	Industry oriented Mini Project Evaluation	-	-	-	2	25	50
9	4C783	VLSI TD Lab	-	-	4	2	25	50
10	4C779	Micro Wave and Optical Communications Lab	-	-	4	2	25	50
11	4C767	Technical Paper Writing and Seminar –VII	-	-	2	1	25	-
Total			23	2	12	31	330	570

IV Year B. Tech (ECE) – II Sem

S.No.	Subject Code	SUBJECT	L	T	P/D	C	Max. Marks	
							Int	Ext
1		Professional Elective – III	4	-	-	4	30	70
2	4C816	Radar Systems	4	-	-	4	30	70
3	4GC33	CULTURE, VALUES, PROFESSIONAL ETHICS & IPR	2	1	-	2	30	70
4	4C896	Project Phase-II	-	-	15	12	50	150
5	4C897	Comprehensive Viva Voce – III	-	-	-	2	-	50
6	4C868	Technical Paper Writing and Seminar –VIII	-	-	2	1	25	-
Total			10	1	17	25	165	410

Open Electives

Open Elective-I			
S. No.	Stream	Subject Code	Subject Name
1	Biology		Applied Biology
2	General Management	4ZC04	Entrepreneurship
3	Banking and Finance		Technology of Management
4	Computer Science	4EC70	Java Programming
5		4FC09	Web Technologies
6	Foreign Languages	4HC41	Basic French Language
7		4HC51	Basic Spanish Language
8		4HC46	Basic German Language
9	Mechanical Engineering		Engineering Mechanics
Open Elective-II			
1	Biology	4GC47	Bio – Informatics
2	General Management	4ZCO5	General management & Entrepreneurship
3	Banking and Finance	4ZC03 4ZC12	Banking Operation, Insurance and Risk Management Project Management and Finance

4	Industry Engineering and Management	4BC15	Product and Service Design
5	Computer Science	4FC21 4EC26	Data Base Systems SAP-I
6	Mechanical Engineering	5BC07	Metallurgy and material Science
7		4FC10	Neural Networks and Fuzzy Logic
8		4GC35	Fundamentals of Disaster management

Professional Electives

Professional Elective-I			
S. No.	Stream	Subject Code	Subject Name
1	Communications	4C621	Telecommunication Switching Systems and Networks
		4C641	Software Defined Radio
2	VLSI Technology	4C637	Micro Electrical Mechanical System
3	Embedded Systems	4C640	Embedded C Programming
4	Signal Processing	4C627	Digital Image Processing
5	Computer Science	4EC07	Operating Systems
		4EC05	Computer Networks
		4EC27	SAP-II
6	Management	4ZC14	Financial Management
7	Manufacturing Engineering	4BC02	Thermodynamics and Heat Transfer
Professional Elective-II			
1	Communications	4C725	Satellite Communications
		4C739	Information Theory and Coding Techniques
2	VLSI Technology	4C741	Digital Verification using System Verilog
3	Embedded Systems	4C723	System on Chip Architecture
4	Signal Processing	4C724	Transformation Techniques
5	Computer Science	4FC07	Shell Programming and Scripting Language
6	Management	4ZC15	Financial institutions, markets and Services
7	Manufacturing Engineering	4BC09	Manufacturing Process –I
Professional Elective-III			
1	Wireless Communications	4CC28	Wireless Communication and Networks
		4C829	Biomedical Signal Processing
		4C830	Adhoc Wirelesss Networks
2	VLSI Technology	4C826	Design Verification and Test
3	Embedded Systems	4DC06	Embedded & Real Time Systems
4	Signal Processing	4C838	Video Processing
5	Computer Science	4FC17	Big Data Analytics
6	Management	4ZC16	Security Analysis and Portfolio Management
7	Manufacturing Engineering	4BC10	Manufacturing Process-II

*- The highlighted courses are newly introduced in the curriculum based on feedback from various stake holders and skills-in-demand analysis.