

**SREENIDHI INSTITUTE OF SCIENCE AND TECHNOLOGY**  
**Department of Computer Science and Engineering**  
**B. Tech (CSE) Course Structure - A15 Regulation**

**B.Tech CSE I YEAR I SEMESTER COURSE STRUCTURE**

Sl. No	New 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	IT Workshop - I	-	-	3/2	1	25	50
13.	4E190	Technical paper Writing & Seminar – I	-	-	2	1	25	-
		<b>Total :</b>	<b>17</b>	<b>6</b>	<b>17.5</b>	<b>28</b>	<b>355</b>	<b>720</b>

**I YEAR II SEMESTER COURSE STRUCTURE**

Sl. No.	New 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.	4H232	Engineering Chemistry -II	3	1	-	3	30	70
7.	4BC04	Basic Mechanical Engineering	3	2	-	3	30	70
8.	4H272	English Language Lab – II	-	-	2	1	25	50
9.	4E271	Data structure and C++Lab	-	-	3	2	25	50
10.	4H282	Engineering Physics Lab – II	-	-	3/2	1	25	50
11.	4F273	IT workshop -II	-	-	3/2	1	25	50
12.	4E291	Technical paper Writing And Seminar - II	-	-	2	1	25	-
		<b>Total :</b>	<b>21</b>	<b>7</b>	<b>13</b>	<b>28</b>	<b>335</b>	<b>690</b>

## II YEAR I SEMESTER COURSE STRUCTURE

Sl. No	New 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.	4AC41	Basic Electrical Engineering	3	1	-	3	30	70
5.	4EC03	Object Oriented Programming through Java	4	1	-	4	30	70
6.	4F302	Mathematical Foundations of Computer Science	3	1	-	3	30	70
7.	4HC73	Functional and Communicative Written English	-	-	3	2	25	50
8.	4AC91	Basic Electrical Engineering Lab	-	-	4/2	1	25	50
9.	4CC80	Basic Electronics Lab	-	-	4/2	1	25	50
10.	4EC74	Object Oriented Programming through Java Lab	-	-	4	2	25	50
11.	4E392	Technical paper Writing And Seminar - III	-	-	2	1	25	-
<b>Total :</b>			<b>21</b>	<b>7</b>	<b>13</b>	<b>28</b>	<b>305</b>	<b>620</b>

## II YEAR II SEMESTER COURSE STRUCTURE

Sl. No	New Code	Subject	L	T	P/D	C	Max. Marks	
							Int.	Ext.
1.	4FC04	Design and Analysis of Algorithms	3	1	-	3	30	70
2.	4ZC01	Managerial Economics and Financial Analysis	3	1	-	3	30	70
3.	4FC03	Data Base Management Systems	4	1	-	4	30	70
4.	4GC06	Environmental Studies	3	1	-	3	30	70
5.	4D408	Computer Organization And Microprocessor and Interfacing	4	1	-	4	30	70
6.	4HC16	Probability and Statistics	3	1	-	3	30	70
7.	4HC74	Effective English Communication and Soft Skills	-	-	3	2	25	50
8.	4E473	Comprehensive Viva Voce - I	-	-	-	1	-	50
9.	4FC74	Data Base Management Systems Lab	-	-	4	2	25	50
10.	4DC74	Microprocessor and Interfacing Lab	-	-	4	2	25	50
11.	4E493	Technical paper Writing And Seminar - IV	-	-	2	1	25	-
<b>Total :</b>			<b>20</b>	<b>6</b>	<b>13</b>	<b>28</b>	<b>280</b>	<b>620</b>

### III YEAR I SEMESTER COURSE STRUCTURE

Sl. No	New Code	Subject	L	T	P/D	C	Max. Marks	
							Int.	Ext.
1.		Open Elective - I	3	-	-	3	30	70
2.	4EC07	Operating Systems	4	-	-	4	30	70
3.	4FC17	Theory of Computation	3	1	-	3	30	70
4.	4E502	Data Communications And Networks	4	1	-	4	30	70
5.	4EC04	Software Engineering	3	1	-	3	30	70
6.	4FC09	Web Technologies	4	1	-	4	30	70
7.	4HC76	Quantitative Aptitude	-	-	3	2	25	50
8.	4E575	Group Project	-	-	3	1	25	50
9.	4EC87	Operating Systems and Computer Network Lab	-	-	4	2	25	50
10.	4FC82	Web Technologies Lab.	-	-	4	2	25	50
11.	4E594	Technical paper Writing And Seminar - V	-	-	2	1	25	-
<b>Total :</b>			<b>21</b>	<b>4</b>	<b>16</b>	<b>29</b>	<b>305</b>	<b>620</b>

OPEN ELECTIVE - I	
New Code	Subject
4BC15	Product and Service Design
4HC51	Basic Spanish Language
4HC46	Basic German Language
4HC41	Basic French Language
4BC11	Operations Research for Allied Branches
4ZC04	Entrepreneurship
4EC26	SAP I - ABAP Workbench Fundamentals

### III YEAR II SEMESTER COURSE STRUCTURE

Sl. No	New Code	Subject	L	T	P/D	C	Max. Marks	
							Int.	Ext.
1.		Open Elective - II	3	-	-	3	30	70
2.	4EC06	Object Oriented Analysis And Design	3	1	-	3	30	70
3.	4EC08	Compiler Design	3	1	-	3	30	70
4.	4FC11	Information Security	3	1	-	3	30	70
5.	4EC19	Linux Programming	3	1	-	3	30	70
6.		Professional Elective – I	4	1	-	4	30	70
7.	4HC77	Logical Reasoning	-	-	3	2	25	50
8.	4E677	Comprehensive Viva II	-	-	-	1	-	50
9.	4E688	Compiler Design And Object Oriented Analysis And Design Lab	-	-	4	2	25	50
10.	4E689	Linux Programming Lab	-	-	4	2	25	50
11.	4E695	Technical paper Writing And Seminar - VI	-	-	2	1	25	-
<b>Total :</b>			<b>19</b>	<b>5</b>	<b>13</b>	<b>27</b>	<b>280</b>	<b>620</b>

OPEN ELECTIVE - II		PROFESSIONAL ELECTIVE - I	
New Code	Subject	New Code	Subject
4ZC03	Banking Operations, Insurance and Risk management	4FC18	Computer Forensics
4ZC05	General Management and Entrepreneurship	4EC11	Artificial Intelligence
4GC35	Fundamentals of Bio Informatics	4EC12	Software Project Management
4BC25	Introduction to Nano Technology	4EC16	Mobile Computing
4DC52	Fundamentals of Embedded Systems		
4ZC07	Fundamentals of Disaster Management		
4EC27	SAP II- ABAP Workbench Concepts		

#### IV YEAR I SEMESTER COURSE STRUCTURE

Sl. No	New Code	Subject	L	T	P/D	C	Max. Marks	
							Int.	Ext.
1.	4FC05	Data Warehousing and Data Mining	4	-	-	4	30	70
2.		Professional Elective - II	4	1	-	4	30	70
3.	4E709	Software Testing	4	-	-	4	30	70
4.	4ZC02	Management Science	4	1	-	4	30	70
5.	4EC25	Scripting Languages	4	1	-	4	30	70
6.	4EC15	Cloud Computing	3	1	-	3	30	70
7.	4GC33	Culture, Values, Professional Ethics and IPR	2	1	-	2	30	70
8.	4E780	Project Phase - I	-	-	2	1	50	-
9.	4E781	Industry Oriented Mini Project	-	-	-	2	25	50
10.	4E779	Software Testing And Data Mining	-	-	4	2	25	50
11.	4E789	Scripting Languages Lab	-	-	4	2	25	50
12.	4E796	Technical paper Writing And Seminar -	-	-	2	1	25	-
<b>Total :</b>			<b>25</b>	<b>5</b>	<b>12</b>	<b>33</b>	<b>360</b>	<b>640</b>

PROFESSIONAL ELECTIVE - II	
New Code	Subject
4F713	Electronic Commerce
4DC55	Internet of Things
4EC14	Information Retrieval System
4EC13	Software Architecture and Design Pattern
4ZC19	Project Management and Structured Finance

**IV YEAR II SEMESTER COURSE STRUCTURE**

Sl. No	New	Subject	L	T	P/D	C	Max.	
							Int.	Ext.
1.		Professional Elective - III	4	-	-	4	30	70
2.	4FC23	Image Processing	4	-	-	4	30	70
3.	4E884	Project Phase – II	-	-	15	12	50	150
4.	4E885	Comprehensive Viva III	-	-	-	2	-	50
5.	4E897	Technical paper Writing And Seminar - VIII	-	-	2	1	25	-
<b>Total :</b>			<b>8</b>	<b>-</b>	<b>17</b>	<b>23</b>	<b>135</b>	<b>340</b>

PROFESSIONAL ELECTIVE - III	
New Code	Subject
4EC17	Human Computer Interaction
4FC06	Computer Graphics
4EC18	Advanced Computer Architecture
4FC22	Big Data Analytics

Note: All End Examinations (Theory and Practical) are of **Three** hours duration.

**T – Tutorial**

**L- Theory**

**P/D – Practical/Drawing**

**C- Credits**

**Int. - Internal Exam**

**Ext. - External Exam**