








Department of Computer Science and Engineering

Board of Studies – Members

S. No.	Name & Address of the member	Designation	BOS Position	Signature
1.	Dr. U.M.Fernandes Dimlo Department of CSE Sreyas Institute of Engineering and Technology Nagole, Hyderabad	Professor & Head of the Department	Chairman	
2.	Dr. Devara Vasumathi Professor, Professor & Director of University Foreign Relations, Professor of Computer Science & Engineering, JNTUH, Hyderabad.	Professor	JNTUH Nominee	
3.	Dr.N.Padma Joshi Department of CSE Sreyas Institute of Engineering and Technology Nagole Hyderabad	Associate Professor	Faculty	
4.	Dr.M.A.Ranjit Kumar Department of CSE Sreyas Institute of Engineering and Technology Nagole Hyderabad	Associate Professor	Faculty	
5.	Dr.B.Suvarnamukhi Department of CSE Sreyas Institute of Engineering and Technology Nagole Hyderabad	Associate Professor	Faculty	
6.	Dr. CH.Jankamma Department of CSE Sreyas Institute of Engineering and Technology Nagole Hyderabad	Associate Professor	Faculty	

7.	Dr. M.Swapna Department of CSE Sreyas Institute of Engineering and Technology Nagole Hyderabad	Professor	Faculty	
8.	Dr. K.Shyamala Department of CSE Osmania University	Professor	Subject Expert-1	
9.	Dr.T.Ramakrishnudu Department of CSE NIT Warangal	Associate Professor	Subject Expert-2	
10.	Mrs.K.Sruthi Wells Fargo Hyderabad	Senior Assistant Vice President	Industry Expert	
11.	Mrs.N.Swapna Virtusa Hyderabad	Lead Software Engineer	Alumni	
12.	Dr.S.Kavitha Department of CSE(AI&ML) ACE Engineering College Hyderabad	Associate Professor & HOD	Special Invitee	

B.Tech. in COMPUTER SCIENCE AND ENGINEERING

Course Structure & Syllabus(R-25Regulations)




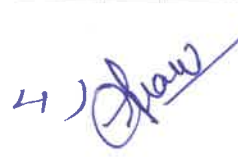

Applicable from AY 2025-2026 Batch



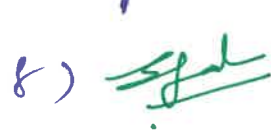


I Year – I Semester

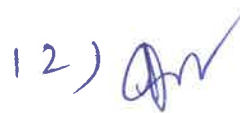

S. No.	Course Code	Course Title	L	T	P	Credits
1.		Matrices and Calculus	3	1	0	4
2.		Engineering Chemistry	3	0	0	3
3.		English for Skill Enhancement	3	0	0	3
4.		Electronic Devices and Circuits	3	0	0	3
5.		Programming for Problem Solving	3	0	0	3
6.		Engineering Chemistry Lab	0	0	2	1
7.		Programming for Problem Solving Lab	0	0	2	1
8.		Engineering Workshop	0	0	2	1
9.		English Language and Communication Skills Lab	0	0	2	1
10.		Induction Program				
		Total Credits	15	1	8	20

I Year – II Semester

S. No.	Course Code	Course Title	L	T	P	Credits
1.		Ordinary Differential Equations and Vector Calculus	3	1	0	4
2.		Advanced Engineering Physics	3	0	0	3
3.		Engineering Drawing and Computer Aided Drafting	2	0	2	3
4.		Basic Electrical Engineering	3	0	0	3
5.		Data Structures	3	0	0	3
6.		Advanced Engineering Physics Lab	0	0	2	1
7.		Data Structures Lab	0	0	2	1
8.		Basic Electrical Engineering Lab	0	0	2	1
9.		IT Workshop	0	0	2	1
		Total Credits	14	1	10	20

1)  2)  3)  4)  5) 

6)  7)  8)  9)  10) 

11) N. Swapna 12)  13) 

II YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1.		Discrete Mathematics	3	0	0	3
2.		Computer Organization and Architecture	3	0	0	3
3.		Object Oriented Programming through Java	3	0	0	3
4.		Software Engineering	3	0	0	3
5.		Database Management System	3	0	0	3
6.		Computational Mathematics Lab	0	0	2	1
7.		Object Oriented Programming through Java Lab	0	0	2	1
8.		Database Management Systems Lab	0	0	2	1
9.		Data Visualization- Tableau	0	0	2	1
10.		Environmental Science	1	0	0	1
		Total Credits	16	0	08	20

II YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1.		Computer Oriented Statistical Methods	3	0	0	3
2.		Operating Systems	3	0	0	3
3.		Python Programming	3	0	0	3
4.		Computer Networks	3	0	0	3
5.		Web Technologies	3	0	0	3
6.		Innovation and Entrepreneurship	2	0	0	2
7.		Operating Systems Lab	0	0	2	1
8.		Computer Networks Lab	0	0	2	1
9.		Python Programming Lab	0	0	2	1
10.		Web Technologies Lab	0	0	2	1
11.		UI Design – Flutter	0	0	2	1
		Total Credits	17	0	10	22

***Note:** Students who wish to exit after II Year II Semester has to register for this optional course and acquire the credits allotted by doing 6 weeks Work-based Vocational Course/ Internship or Apprenticeship. Please refer R25 Academic Regulations for more information.

III YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1.		Automata Theory and Compiler Design	3	0	0	3
2.		Machine Learning	3	0	0	3
3.		Algorithm Design and Analysis	3	0	0	3
4.		Professional Elective-I	3	0	0	3
5.		Open Elective-I	2	0	0	2
6.		Machine Learning Lab	0	0	2	1
7.		Professional Elective-I Lab	0	0	2	1
8.		Algorithm Design and Analysis Lab	0	0	2	1
9.		Field-Based Research Project	0	0	4	2
10.		Node JS/React JS/Django	0	0	2	1
11.		Indian Knowledge System	1	0	0	1
Total Credits			15	0	12	21

III YEAR II SEMESTER

S. No	Course Code	Course Title	L	T	P	Credits
1.		Cryptography and Networks Security	3	0	0	3
2.		Deep Learning	3	0	0	3
3.		Business Economics and Financial Analysis	3	0	0	3
4.		Professional Elective-II	3	0	0	3
5.		Open Elective-II	2	0	0	2
6.		Cryptography and Networks Security Lab	0	0	2	1
7.		Deep Learning Lab	0	0	2	1
8.		Advanced Data Structures using Python Lab	0	0	2	1
9.		Advanced English Communication Skills Laboratory	0	0	2	1
10.		Prompt Engineering	0	0	2	1
11.		Gender Sensitization Lab*/Human Values and Professional Ethics*	1	0	0	1
Total Credits			15	0	10	20

***Note:** For the courses Gender Sensitization Lab and Human Values and Professional Ethics - one hour of instruction will be conducted on alternate weeks. For example, if a one-hour class for Gender Sensitization Lab is conducted this week, then a one-hour class for Human Values and Professional Ethics will be conducted in the following week.

IV YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1.		Natural Language Processing	3	0	0	3
2.		Cyber Security	3	0	0	3
3.		Fundamentals of Management	3	0	0	3
4.		Professional Elective-III	3	0	0	3
5.		Professional Elective-IV	3	0	0	3
6.		Open Elective-III	2	0	0	2
7.		Natural Language Processing Lab	0	0	2	1
8.		Cyber Security Lab	0	0	2	1
9.		Industry Oriented Mini Project/Internship	0	0	4	2
Total Credits			17	0	08	21

IV YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1.		Professional Elective-V	3	0	0	3
2.		Professional Elective-VI	3	0	0	3
3.		Project Work	0	0	28	14
Total Credits			6	0	28	20

PROFESSIONAL ELECTIVES

Professional Elective-I

	Artificial Intelligence
	Introduction to Data Science
	Software Testing Methodologies
	Data Mining
	DevOps
	Full Stack Development

Professional Elective-I Lab

	Artificial Intelligence lab
	Introduction to Data Science lab
	Software Testing Methodologies lab
	Data Mining lab
	DevOps lab
	Full Stack Development lab

Professional Elective-II

	Image Processing
	Mining Massive Datasets
	Software Project Management
	Block chain Technology
	Distributed Systems
	Generative AI

Professional Elective-III

	Computer Vision
	DataStream Mining
	Information Retrieval Systems
	Predictive Analytics
	Explainable AI
	Vulnerability and Penetration Testing

Professional Elective-IV

	Augmented Reality & Virtual Reality
	BigData Analytics
	Agile Methodology
	Quantum Computing
	Robotic Process Automation
	Cyber Forensics

Professional Elective-V

	Game Theory
	Social Media Mining
	Internet of Things
	Nature Inspired Computing
	Mobile Application Development
	Human Computer Interaction

Professional Elective-VI

	High Performance Computing
	Distributed Databases
	Graph Theory
	Adhoc and Sensor Networks
	Sustainable Engineering
	Edge Computing



Sreyas Institute of Engineering and Technology

An Autonomous Institution

Approved by AICTE, Affiliated to JNTUH

Accredited by NAAC-A Grade, NBA (CSE, ECE & ME) & ISO 9001:2015 Certified

OPENELECTIVES:

OpenElective-1:

1. Object Oriented Programming through JAVA
2. Database Management Systems

OpenElective-2:

1. Introduction to Computer Networks
2. Software Engineering

OpenElective-3:

1. Algorithms Design and Analysis
2. Fundamentals of Cyber Security

1)

2) 18/8/2025

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11) N. Swapna 12)

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Minutes of the meeting- Board of Studies Computer Science and Engineering

Minutes of Board of studies of Computer Science and Engineering Meeting held on 18th August 2025 at 10.30 AM for B.Tech students admitted during the academic year 2025-26 as per SIET R25 Regulations.

1. The members of BOS are introduced by chairman BOS.
2. The minutes of previous BOS meeting are confirmed.
3. The course structure of CSE department for first and Second year is approved. Based on the suggestion of BOS University nominee Dr.D.Vasumathi, Professor of CSE, JNTUH Computer Networks and Operating Systems lab are separated into two individual lab courses.

I Year I Semester

S. No.	Course Code	Course Title	L	T	P	Credits
1.		Matrices and Calculus	3	1	0	4
2.		Engineering Chemistry	3	0	0	3
3.		English for Skill Enhancement	3	0	0	3
4.		Electronic Devices and Circuits	3	0	0	3
5.		Programming for Problem Solving	3	0	0	3
6.		Engineering Chemistry Lab	0	0	2	1
7.		Programming for Problem Solving Lab	0	0	2	1
8.		English Language and Communication Skills Lab	0	0	2	1
9.		Engineering Workshop	0	0	2	1
10.		Induction Program				
Total Credits			15	1	8	20

I Year II Semester

S. No.	Course Code	Course Title	L	T	P	Credits
1.		Ordinary Differential Equations and Vector Calculus	3	1	0	4
2.		Advanced Engineering Physics	3	0	0	3
3.		Engineering Drawing and Computer Aided Drafting	2	0	2	3
4.		Basic Electrical Engineering	3	0	0	3
5.		Data Structures	3	0	0	3
6.		Advanced Engineering Physics Lab	0	0	2	1
7.		Data Structures Lab	0	0	2	1
8.		Basic Electrical Engineering Lab	0	0	2	1
9.		IT Workshop	0	0	2	1
Total Credits			14	1	10	20

II YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1.		Discrete Mathematics	3	0	0	3
2.		Computer Organization and Architecture	3	0	0	3
3.		Object Oriented Programming through java	3	0	0	3
4.		Software Engineering	3	0	0	3
5.		Database Management Systems	3	0	0	3
6.		Computational Mathematics Lab	0	0	2	1
7.		Object Oriented Programming through java Lab	0	0	2	1
8.		Database Management Systems Lab	0	0	2	1
9.		Data Visualization- Tableau	0	0	2	1
10.		Environmental Science	1	0	0	1
Total Credits			16	0	08	20

II YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1.		Computer oriented Statistical Methods	3	0	0	3
2.		Operating Systems	3	0	0	3
3.		Python Programming	3	0	0	3
4.		Computer Networks	3	0	0	3
5.		Web Technologies	3	0	0	3
6.		Innovation and Entrepreneurship	2	0	0	2
7.		Operating Systems Lab	0	0	2	1
8.		Python Programming Lab	0	0	2	1
9.		Computer Networks Lab	0	0	2	1
10.		Web Technologies Lab	0	0	2	1
11.		UI Design – Flutter	0	0	2	1
Total Credits			17	0	10	22

4. The syllabus for I B.Tech I Semester Theory and Practical courses, taught by Computer Science and Engineering department to Computer Science and Engineering, ECE students of SIET are approved by all members of BOS.

S.No.	Course Code	Course	L	T	P	Credits	Remarks
1		Programming for Problem Solving	3	0	0	3	
2		Programming for Problem Solving Lab	0	0	2	1	

5. The syllabus for I B.Tech II Semester Theory and Practical courses, handled by Computer Science and Engineering department to CSE and ECE students of SIET are approved.

S.No.	Course Code	Course	L	T	P	Credits	Remarks
1		Data Structures	3	0	0	3	
2		Data Structures Lab	0	0	2	1	

6. The syllabus for I B.Tech II Semester Practical courses, handled by Computer Science and Engineering department to CSE students of SIET are approved.

S.No.	Course Code	Course	L	T	P	Credits	Remarks
1		IT Workshop	0	0	2	1	

7. The syllabus for I B.Tech II Semester Theory and Practical courses, handled by Computer Science and Engineering department to ECE students of SIET are approved.

S.No.	Course Code	Course	L	T	P	Credits	Remarks
1		Python Programming	3	0	0	3	
2		Applied Python Programming Lab	0	0	2	1	

8. The syllabus for II B.Tech I Semester Theory and Practical courses, handled by Computer Science and Engineering department to CSE students of SIET are approved. BOS University nominee Dr.D.Vasumathi, Professor of CSE, JNTUH and other members of BOS are approved addition of topics collections, JDBC in Object Oriented Programming through Java theory course, additional programs in Java lab course also.





S. No.	Course Code	Course Title	L	T	P	Credits	Remarks
1.		Discrete Mathematics	3	0	0	3	
2.		Object Oriented Programming through java	3	0	0	3	
3.		Software Engineering	3	0	0	3	
4.		Database Management Systems	3	0	0	3	
5.		Object Oriented Programming through java Lab	0	0	2	1	
6.		Database Management Systems Lab	0	0	2	1	
7.		Data Visualization- Tableau	0	0	2	1	





9. The syllabus for II B.Tech II Semester Theory and Practical courses, handled by Computer Science and Engineering department to CSE students of SIET are approved.



S. No.	Course Code	Course Title	L	T	P	Credits	Remarks
1.		Operating Systems	3	0	0	3	
2.		Python Programming	3	0	0	3	
3.		Computer Networks	3	0	0	3	
4.		Web Technologies	3	0	0	3	
5.		Operating Systems Lab	0	0	2	1	
6.		Python Programming Lab	0	0	2	1	
7.		Computer Networks Lab	0	0	2	1	
8.		Web Technologies Lab	0	0	2	1	
9.		UI Design – Flutter	0	0	2	1	

10. Any other matter as per approval of chairman BOS.

Chairman BOS of CSE 18/08/2025

1)  2)  3)  4) 

5)  6)  7)  8) 

9)  10) K. Sruthi 11) N. Swapna 12) 

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