



## Department of Computer Science and Engineering


### Circular

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It is informed that the first BOS Meeting will be held on 20-10-2022 at 2.00 PM in the HOD's chamber to discuss the following agenda points.

### AGENDA

- Item-1** : To discuss about R-22 regulations.
- Item-2** : To discuss and approve the course structure of UG Programme in Computer Science and Engineering for the regulations R-22 with effect from the Academic Year 2022-23.
- Item-3** : To discuss and approve the syllabus of I Year I Semester courses offered by Computer Science and Engineering for the regulation R-22.
- Item-4** : To discuss and approve the syllabus of I Year II Semester courses offered by Computer Science and Engineering for the regulation R-22.
- Item-5** : Any other points by the permission of chair.

  
Dr. Shaik Abdul Nabi 20/10/2022

**Chairman BoS & HoD of CSE**



## Department of Computer Science and Engineering Board of Studies Members

S.No	Name	Designation	Position
1	Dr. SK.Abdul Nabi	HoD, CSE	Chairman
2	Dr. G.Narsimha	Prof of CSE, JNTUH, UCES	University Nominee
3	Mr. M.Manoj	Scientist-E, RCI, Hyderabad	Industrialist
4	Dr. U.M.Fernandes Dimlo	Prof, HoD of CSE (AI&ML), SIET	Specialized Faculty-1
5	Dr. M.Jayaram	Prof, HoD of CSE (DS), SIET	Specialized Faculty-2
6	Mrs. Swathi Varala	Co-Founder, Techshine Solutions, Hyderabad	Alumni Student
7	Dr. V.Vijaya Kumar	Professor, Dean, Anurag Univ., Hyderabad	Subject Expert-1
8	Dr. Sandeep Kumar Panda	Professor, ICFAI University, Hyderabad	Subject Expert-2
9	Dr. V.Sidda Reddy	Professor, SIET	Faculty
10	Dr. V.Biksham	Professor, SIET	Faculty
11	Mrs. N.Padma Joshi	Associate Professor, SIET	Faculty
12	Mr. M.Anand R. Kumar	Associate Professor, SIET	Faculty
13	Mr. G.Sravan Kumar	Associate Professor, SIET	Faculty
14	Mr. M Naresh Choudary	Associate Professor, SIET	Faculty
15	Mr. MV.Nagesh	Associate Professor, SIET	Faculty

  
**Dr. S. Sai Satyanaryana Reddy**  
B.E., M.E., Ph.D.  
PRINCIPAL  
SREYAS INSTITUTE OF ENGG., AND TECH.,  
#9-39, Beside Indu Aranya, Bandlaguda,  
Nagole, Thattianaram, Hyd-68.





## Department of Computer Science and Engineering

### Minutes of Meeting

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Board of Studies meeting was held on 20-10-2022 at 2.00 PM in the Department Conference Hall. Chairman welcomed honorable members of Board of Studies.

The Course Structure of B.Tech. Computer Science and Engineering and the syllabus of I Year I & II Semesters was proposed by Dr. Shaik Abdul Nabi ,HOD & Chairman of BOS, Dept of CSE,SIET for the discussion of honorable members.

The BOS members noted Vision and Mission of Institute & Department, PEOs and POs of the Programme. Then they discussed the Course Structure of UG Programme in Computer Science and Engineering for this autonomous institute in line with Vision and Mission of Institute & Department, PEOs and POs of the Programme for the regulations R-22 with effect from the academic year 2022-23.

**The following points discussed.**

**Item-1 :** The Chairman has presented R-22 regulations.

**Item-2 :** Course structure of UG Programme (I Year to IV Year) in Computer Science and Engineering for the regulation R-22.

Committee has reviewed and approved the course structure of the UG Programme in Computer Science and Engineering ( I Year to IV Year).

**Item-3:** The Syllabus of I Year I Semester courses offered by Computer Science and Engineering for the regulation R-22.

**Courses:**

- Programming for Problem Solving (CSE,CSE(AI&ML),CSE(DS))
- Programming for Problem Solving Laboratory (CSE,CSE(AI&ML),CSE(DS))
- Elements of Computer Science and Engineering (CSE,CSE(AI&ML),CSE(DS))
- Programming and Data Structures (Mech.,Civil)



- C Programming and Data Structures Laboratory ( Mech.,Civil)
- C Programming for Engineers (ECE)
- C Programming for Engineers Laboratory (ECE)

Committee has reviewed and approved the syllabus proposed by chairman.

**Item-4** : The syllabus of I Year II Semester Courses offered by Computer Science and Engineering for the regulation R-22.

**Courses:**

- Python Programming Laboratory (CSE,CSE(AI&ML),CSE(DS))
- IT Workshop (CSE,CSE(AI&ML),CSE(DS))
- Python Programming Laboratory ( Mech , Civil)
- Applied Python Programming Laboratory (ECE)

Committee has reviewed and approved the syllabus proposed by chairman.

**List of enclosures:**

1. B.Tech in CSE Course Structure and Detailed Syllabus of I Year I Semester and II Semester.





**Department of Computer Science and Engineering**

**Board of Studies Meeting**

20-10-2022

**Members Attended**

S.No	Name	Designation	Position	Signature
1	Dr. SK.Abdul Nabi	HoD, CSE	Chairman	
2	Dr. G.Narsimha	Prof of CSE, JNTUH, UCES	University Nominee	
3	M Manoj	Scientist-E, RCI, Hyderabad Industrialist	Industrialist	
4	Dr. U.M.Fernandes Dimlo	Prof, HoD of CSE (AI&ML), SIET	Specialized Faculty-1	
5	Dr. M.Jayaram	Prof, HoD of CSE (DS), SIET	Specialized Faculty-2	
6	Mrs. Swathi Varala	Co-Founder, Techshine Solutions, Hyderabad	Alumni Student	
7	Dr. V.Vijaya Kumar	Professor, Dean, Anurag Univ., Hyderabad	Subject Expert-1	
8	Dr. Sandeep Kumar Panda	Professor, ICFAI Univ, Hyderabad	Subject Expert-2	
9	Dr. M.Sidda Reddy	Prof, SIET	Faculty	
10	Dr. V.Biksham	Prof, SIET	Faculty	
11	Mrs. N.Padma Joshi	Assoc.Prof, SIET	Faculty	
12	Mr. M.Anand R. Kumar	Assoc.Prof, SIET	Faculty	
13	Mr. G.Sravan Kumar	Assoc.Prof, SIET	Faculty	
14	Mr. M Naresh Choudary	Assoc.Prof, SIET	Faculty	
15	Mr. MV.Nagesh	Assoc.Prof, SIET	Faculty	

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**SREYAS INSTITUTE OF ENGINEERING AND TECHNOLOGY  
(AUTONOMOUS)**

**B.Tech. in COMPUTER SCIENCE AND ENGINEERING  
COURSE STRUCTURE, I & II YEAR SYLLABUS (R22 Regulations)  
Applicable from AY 2022-23 Batch**

**I Year I Semester**

S. No.	Course Code	Course	L	T	P	Credits
1.	22BS01	Matrices and Calculus	3	1	0	4
2.	22BS04	Engineering Chemistry	3	1	0	4
3.	22PC20	Programming for Problem Solving	3	0	0	3
4.	22PC15	Basic Electrical Engineering	2	0	0	2
5.	22PC05	Computer Aided Engineering Graphics	1	0	4	3
6.	22PC21	Elements of Computer Science & Engineering	0	0	2	1
7.	22BS05	Engineering Chemistry Laboratory	0	0	2	1
8.	22PC22	Programming for Problem Solving Laboratory	0	0	2	1
9.	22PC18	Basic Electrical Engineering Laboratory	0	0	2	1
<b>Total</b>			<b>12</b>	<b>2</b>	<b>12</b>	<b>20</b>

**I Year II Semester**

S. No.	Course Code	Course	L	T	P	Credits
1.	22BS03	Ordinary Differential Equations and Vector Calculus	3	1	0	4
2.	22BS02	Applied Physics	3	1	0	4
3.	22PC02	Engineering Workshop	0	1	3	2.5
4.	22HS01	English for Skill Enhancement	2	0	0	2
5.	22PC16	Electronic Devices and Circuits	2	0	0	2
6.	22HS02	Applied Physics Laboratory	0	0	3	1.5
7.	22PC08	Python Programming Laboratory	0	1	2	2
8.	22HS03	English Language and Communication Skills Laboratory	0	0	2	1
9.	22PC23	IT Workshop	0	0	2	1
<b>Total</b>			<b>10</b>	<b>4</b>	<b>12</b>	<b>20</b>

**II YEAR I SEMESTER**

S. No.	Course Code	Course Title	L	T	P	Credits
1		Digital Electronics	3	0	0	3
2		Data Structures	3	0	0	3
3		Computer Oriented Statistical Methods	3	1	0	4
4		Computer Organization and Architecture	3	0	0	3
5		Object Oriented Programming through Java	3	0	0	3
6		Data Structures Lab	0	0	3	1.5
7		Object Oriented Programming through Java Lab	0	0	3	1.5
8		Gender Sensitization Lab	0	0	2	0
9		Skill Development Course (Data visualization- R Programming/ Power BI)	0	0	2	1
<b>Total</b>			<b>15</b>	<b>1</b>	<b>10</b>	<b>20</b>

*G. Ajith*



**II YEAR II SEMESTER**

S. No.	Course Code	Course Title	L	T	P	Credits
1		Discrete Mathematics	3	0	0	3
2		Business Economics & Financial Analysis	3	0	0	3
3		Operating Systems	3	0	0	3
4		Database Management Systems	3	0	0	3
5		Software Engineering	3	0	0	3
6		Operating Systems Lab	0	0	2	1
7		Database Management Systems Lab	0	0	2	1
8		Real-time Research Project/ Societal Related Project	0	0	4	2
9		Constitution of India	3	0	0	0
10		Skill Development Course (Node JS/ React JS/ Django)	0	0	2	1
		<b>Total</b>	<b>18</b>	<b>0</b>	<b>10</b>	<b>20</b>

**III YEAR I SEMESTER**

S. No.	Course Code	Course Title	L	T	P	Credits
1		Design and Analysis of Algorithms	3	1	0	4
2		Computer Networks	3	0	0	3
3		DevOps	3	0	0	3
4		Professional Elective-I	3	0	0	3
5		Professional Elective -II	3	0	0	3
6		Computer Networks Lab	0	0	2	1
7		DevOps Lab	0	0	2	1
8		Advanced Communication Skills Lab	0	0	2	1
9		Intellectual Property Rights	3	0	0	0
10		Skill Development Course (UI design- Flutter)	0	0	2	1
		<b>Total</b>	<b>18</b>	<b>1</b>	<b>8</b>	<b>20</b>

**III YEAR II SEMESTER**

S. No.	Course Code	Course Title	L	T	P	Credits
1		Machine Learning	3	0	0	3
2		Formal Languages and Automata Theory	3	0	0	3
3		Artificial Intelligence	3	0	0	3
4		Professional Elective – III	3	0	0	3
5		Open Elective-I	3	0	0	3
6		Machine Learning Lab	0	0	2	1
7		Professional Elective-III Lab	0	0	2	1
8		Industrial Oriented Mini Project/ Internship/ Skill Development Course (Big data-Spark)	0	0	4	2
9		Environmental Science	3	0	0	0
		<b>Total</b>	<b>18</b>	<b>0</b>	<b>8</b>	<b>20</b>

Environmental Science in III Yr II Sem Should be Registered by Lateral Entry Students Only.

**IV YEAR I SEMESTER**

*G. Anish*

S. No.	Course Code	Course Title	L	T	P	Credits
1		Cryptography and Network Security	3	0	0	3
2		Compiler Design	3	0	0	3
3		Professional Elective -IV	3	0	0	3
4		Professional Elective -V	3	0	0	3
5		Open Elective - II	3	0	0	3
6		Cryptography and Network Security Lab	0	0	2	1
7		Compiler Design Lab	0	0	2	1
8		Project Stage - I	0	0	6	3
		<b>Total Credits</b>	<b>15</b>	<b>0</b>	<b>10</b>	<b>20</b>

**IV YEAR II SEMESTER**

S. No.	Course Code	Course Title	L	T	P	Credits
1		Organizational Behavior	3	0	0	3
2		Professional Elective – VI	3	0	0	3
3		Open Elective – III	3	0	0	3
4		Project Stage – II including Seminar	0	0	22	9+2
		<b>Total Credits</b>	<b>9</b>	<b>0</b>	<b>22</b>	<b>20</b>

\*MC – Satisfactory/Unsatisfactory

#Skill Course - 1 credit with 2 Practical Hours

**Professional Elective - I**

	Quantum Computing
	Advanced Computer Architecture
	Data Analytics
	Image Processing
	Principles of Programming Languages

**Professional Elective - II**

	Computer Graphics
	Embedded Systems
	Information Retrieval Systems
	Distributed Databases
	Natural Language Processing

**Professional Elective - III**

	Full Stack Development
	Internet of Things
	Scripting Languages
	Mobile Application Development
	Software Testing Methodologies

# Courses in PE - III and PE - III Lab must be in 1-1 correspondence.

**Professional Elective -IV**

*G. Anil*



	Graph Theory
	Advanced Operating Systems
	Soft Computing
	Cloud Computing
	Ad hoc & Sensor Networks

**Professional Elective -V**

	Advanced Algorithms
	Agile Methodology
	Robotic Process Automation
	Blockchain Technology
	Software Process & Project Management

**Professional Elective – VI**

	Computational Complexity
	Distributed Systems
	Deep Learning
	Human Computer Interaction
	Cyber Forensics

G. Anish