COURSE FILE

ON

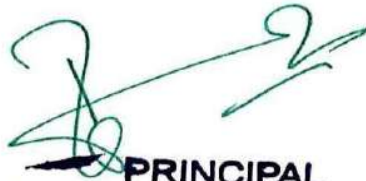# C++ PROGRAMMING LAB

Course Code–CS309PC

II B.Tech I-SEMESTER

A.Y.:2022-2023

Prepared by

Mrs. P H SWARNA REKHA

Assistant Professor

Computer Science & Engg. Dept.
SRI INDU INSTITUTE OF ENGG & TECH.
Sheriguda(V), Ibrahimpatnam(M), R.R.Dist-501 1C.

PRINCIPAL
Sri Indu Institute of Engineering & Tech.
Sheriguda(Vill), Ibrahimpatnam
R.R. Dist. Telangana-501 510.

Sri Indu Institute of
Engineering & Technology

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Affiliated to JNTUH, Hyderabad.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Name of the laboratory:	C++ PROGRAMMINGLAB
Room No	A-105
Course Code	CS309PC
Name of the lab In charge	Mr. A.VIJAY KUMAR
Name of the faculty In charge	Mrs. P H SWARNA REKHA

Index of Lab File

S.No	Name of the content
1	Institute vision and mission
2	Department vision and mission
3	Program Educational Objectives
4	Programme outcomes
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6	Course Outcomes (CO) and CO-PO mapping
7	List of experiments and their CO,PO mapping
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13	Dos and Don'ts
14	Physical lab floor plan with area in Sq.m
15	Lab manual
16	CO-PO Attainments

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

INSTITUTE VISION AND MISSION

Vision:

To become a premier institute of academic excellence by providing the world class education that transforms individuals into high intellectuals, by evolving them as empathetic and responsible citizens through continuous improvement.

Mission:

IM1: To offer outcome-based education and enhancement of technical and practical skills.

IM2: To continuous assess of teaching-learning process through institute-industry collaboration.

IM3: To be a center of excellence for innovative and emerging fields in technology development

with state-of-art facilities to faculty and students fraternity.

IM4: To create an enterprising environment to ensure culture, ethics and social responsibility among the stakeholders.

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DEPARTMENTOFCOMPUTERSCIENCEANDENGINEERING

DEPARTMENT VISION AND MISSION

Vision:

To become a prominent knowledge hub for learners, strive for educational excellence with innovative and industrial techniques so as to meet the global needs.

Mission:

DM1: Toprovideambiencethatenhancesinnovations, problemsolvingskills, leadership qualities, decision making, team-spirit and ethical responsibilities.

DM2: To impart quality education with professional and personal ethics, so as to meet the challenging technological needs of the industry and society.

DM3: To provide academic infrastructure and develop linkage with the world class organizations to strengthen industry-academia relationships for learners.

DM4: To provide and strengthen new concepts of research in the thrust area of Computer Science and Engineering to reach the needs of Government and Society.

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

PROGRAM EDUCATIONAL OBJECTIVES

PEO1: To develop trained graduates with strong academic and technical skills of modern Computer science and engineering.

PEO2: To promote trained graduates with leadership qualities and the ability to solve real time problems using current techniques and tools in interdisciplinary environment.

PEO3: To motivate the graduates towards lifelong learning through continuing education and professional development.

PROGRAM SPECIFIC OUTCOMES

PSO1: **Professional Skills:** To implement computer programs of varying complexity in the areas related to Web Design, Cloud Computing, Network Security and Artificial Intelligence.

PSO2: **Problem-Solving Skills**: To develop quality products using open ended programming environment.

B. Rashia Kaur
Computer Science & Engg. Dept.
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PROGRAMME OUTCOMES (POs)

PO1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2: Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3: Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6: The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7: Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: Individual and team work: Function effectively as an individual, and as a memberor leader in diverse teams, and in multi disciplinary settings.

PO10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11: Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply the set o one's own work, as a member and leader in a team, to manage projects and in multi disciplinary environments.

PO12: Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

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JAWAHARLALNEHRUTECHNOLOGICALUNIVERSITYHYDERABAD
B.Tech in COMPUTER SCIENCE AND ENGINEERING
II YEAR COURSE STRUCTURE AND SYLLABUS (R18)
Applicable From 2018-19 Admitted Batch

II YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	CS301ES	Analog and Digital Electronics	3	0	0	3
2	CS302PC	Data Structures	3	1	0	4
3	MA303BS	Computer Oriented Statistical Methods	3	1	0	4
4	CS304PC	Computer Organization and Architecture	3	0	0	3
5	CS305PC	Object Oriented Programming using C++	2	0	0	2
6	CS306ES	Analog and Digital Electronics Lab	0	0	2	1
7	CS307PC	Data Structures Lab	0	0	3	1.5
8	CS308PC	IT Workshop Lab	0	0	3	1.5
9	CS309PC	C++ Programming Lab	0	0	2	1
10	*MC309	Gender Sensitization Lab	0	0	2	0
		Total Credits	14	2	12	21

II YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	CS401PC	Discrete Mathematics	3	0	0	3
2	SM402MS	Business Economics & Financial Analysis	3	0	0	3
3	CS403PC	Operating Systems	3	0	0	3
4	CS404PC	Database Management Systems	3	1	0	4
5	CS405PC	Java Programming	3	1	0	4
6	CS406PC	Operating Systems Lab	0	0	3	1.5
7	CS407PC	Database Management Systems Lab	0	0	3	1.5
8	CS408PC	Java Programming Lab	0	0	2	1
9	*MC409	Constitution of India	3	0	0	0
		Total Credits	18	2	8	21

C++ Programming Lab

CO's, PO's, PSO's MAPPING

Class: II CSE - A   **AY: 2022-2023**

Course Outcomes:

At the End of the course, student will be able to

CO No	DESCRIPTION
C219.1	Identify and able to develop applications for a range of problems on operators such as scope resolution and new delete memory allocation.(Knowledge)
C219.2	Write a basic concepts on initializing and displaying contents of class member and structure of class(Knowledge)
C219.3	Develop basic programs on inheritance.(Synthesis)
C219.4	Identify and able to do programs to use pointer for both base and derived classes and call the member function by using Virtual keyword. (Knowledge).
C219.5	Develop basic programs on console i/o operations (Synthesis).
C219.6	Develop programs on arrays and in line functions (Synthesis).

Mapping of course outcomes with program outcomes and program specific outcomes:

	High -3				**Medium -2**					**Low-1**				
PO/PSO/ CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	-	-	-	-	-	-	-	-	-	-	-
CO2	2	-	3	-	-	-	-	-	-	-	-	3	-	-
CO3	3	-	3	-	-	-	-	-	-	-	-	2	-	3
CO4	3	3	2	-	-	-	-	-	-	-	-	-	-	3
CO5	3	-	3	-	-	-	-	-	-	-	-	1	--	-
CO6	1	3	3	-	-	-	-	-	-	-	-	-	-	-
Course	2.5	3	2.6	-	-	-	-	-	-	-	-	2	-	3

C++ Programming Lab

AY: 2022-2023   **SEMESTER-I**   **Class: II CSE-A**

List of Programs Including Additional Programs and their CO, PO/PSO Mapping

S.No	Name of The Experiment	CO	PO	PSO
1	Write a C++ Program to display Names, Roll No., and grades of 3 students who have appeared in the examination. Declare the class of name, Roll No. and grade. Create an array of class objects. Read and display the contents of the array	C219.2,C 219.6	PO1,PO2, PO3 & PO12	--
2	Write a C++ program to declare Struct. Initialize and display contents of member variables theorem	C219.2	PO1, PO3 & PO12	--
3	Write a C++ program to declare a class. Declare pointer to class. Initialize and display the contents of the class display the contents of the class.	C219.2	PO1, PO3 & PO12	--
4	Given that an EMPLOYEE class contains following members: data members: Employee number, Employee name, Basic, DA, IT, Net Salary and print data.	C219.1,C 219.2	PO1, PO2, PO3 & PO12	--
5	Write a C++ program to read the data of N employee and compute Net salary of each employee (DA=52% of Basic and Income Tax (IT) =30% of the gross salary circuits.	C219.1,C 219.2	PO1, PO2, PO3 & PO12	**--**
6	Write a C++ to illustrate the concepts of console I/O operations.	C219.5	PO1, PO3 & PO12	**--**
7	Write a C++ program to use scope resolution operator. Display the various values of the same variables declared at different scope levels.	C219.1	PO1, PO2 & PO3	--
8	Write a C++ program to allocate memory using new operator	C219.1	PO1, PO2 & PO3	--
9	Write a C++ program to create multilevel inheritance. (Hint: Classes A1, A2, A3)	C219.3	PO1, PO3 & PO12	PSO2
10	Write a C++ program to create an array of pointers. Invoke functions using array objects.array objects.	C219.6	PO1, PO2 & PO3	--
11	Write a C++ program to use pointer for both base and derived classes and call the member function. Use Virtual keyword	C219.4	PO1, PO2 & PO3	PSO2
	ADDITIONAL PROGRAMS			
12	Write a C++ program for Inline function.	C219.6	PO1, PO2 & PO3	--
13	Write a C++ program on Single level inheritance.	C219.3	PO1, PO3 & PO12	PSO2
14	Write a C++ program for multiple catch statement.	C219.1	PO1, PO2 & PO3	--
15	Write a C++ program for user defined manipulators.	C219.1	PO1, PO2 & PO3	--

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Website: https://siiet.ac.in/

TIME TABLE FOR A.Y 2022-23

Class: II-B. Tech CSE -A   Semester: I   LH. NO: A-301   W.E.F:28-11-2022

Period/ Day	1 9:40-10:30	2 10:30-11:20	3 11:20-12:10	4 12:10-1:00	1:00-1:30	5 1:30-2:20	6 2:20-3:10	7 3:10-4:00
Monday	COSM	ITWS LAB(BATCH-I)/ A&DE LAB(BATCH-II)			L U N C H	A&DE	DS	C++
Tuesday	COSM	C++	COA	DS		A&DE	CO-C/SS/DAA	
Wednesday	C++	COSM	INT	COA		DS LAB(BATCH-I)/ C++ LAB(BATCH-II)		
Thursday	DS	CS LAB		COSM/DS(T)		C++	A&DE	SPORTS
Friday	COA	DS LAB(BATCH-II)/ C++ LAB(BATCH-I)				A&DE	LIB	DS/COSM(T)
Saturday	C++	DS	COUN	COA		ITWS LAB(BATCH-II)/ A&DE LAB(BATCH-I)		

(T) – Tutorial (concern faculty)

Subject Code	Subject Name	Name of the Faculty	Subject Code	Subject Name	Name of the Faculty
CS301ES	Analog and Digital Electronics	Mrs. S.Alekhya	CS309PC	C++ Programming Lab	Mrs P H Swarna Rekha/ Mrs.P.Souwjanya/ Mrs.G.Swapna
CS302PC	Data Structures	Mrs. D.Rajeshwari	MC309	Gender Sensitization Lab	Mrs S Swapna
MA303BS	Computer Oriented Statistical Methods	Mrs. B.Ramadevi		CO-C/SS/DAA	Mrs. D.Rajeshwari
CS304PC	Computer Organization and Architecture	Dr. Sasikumar D	Sports	Sports	Mr K Veera Kishore
CS305PC	Object Oriented Programming Using C++	Mrs P H Swarna Rekha	Internet	Internet	Mrs. Ch Sai Vijaya
CS306ES	Analog and Digital Electronics Lab	Mrs. S.Alekhya	LIB	Library	Mrs P H Swarna Rekha
CS307PC	Data Structures Lab	Mrs. D.Rajeshwari/ Mrs D.Uma/ Mrs.A.Sudha	COUN	Counselling	Mrs.R.Sravanthi
CS308PC	IT Workshop Lab	Mrs T Ramya Priya/ Mrs.Ch.Sai Vijaya/ Mrs. Jakkala Priyanka			

Class In-Charge : Mrs. D.Rajeshwari   Mentor 1 : Mrs. D.Rajeshwari   Mentor 2: Mrs P H Swarna Rekha

Class In-Charge

Computer Science & Engg. Dept.
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Sheriguda

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Sheriguda(V), Ibrahimpatnam
Dist. Telangana -501 510

C++ Programming Lab

AY:2022-2023   **SEMESTER-I**   **Class: II CSE-A**

External Examination Question Paper

1. Write a C++ Program to display Names, Roll No., and grades of 3 students who have appeared in the examination. Declare the class of name, Roll No. and grade. Create an array of class objects. Read and display the contents of the array.

2. Write a C++ program to declare Struct. Initialize and display contents of member variables.

3. Given that an EMPLOYEE class contains following members: data members: Employee number, Employee name, Basic, DA, IT, Net Salary and print data members.

4. Write a C++ program to read the data of N employee and compute Net salary of each employee (DA=52% of Basic and Income Tax (IT) =30% of the gross salary).

5. Write a C++ to illustrate the concepts of console I/O operations..

6. Write a C++ program to use scope resolution operator. Display the various values of the same variables declared at different scope levels.

7. Write a C++ program to allocate memory using new operator.

8. Write a C++ program to create multilevel inheritance.(Hint: Class A1,A2,A3)

9. Write a C++ program to create an array of pointers. Invoke functions using array objects.

10.   Write a C++ program to use pointer for both base and derived classes and call the member function Use Virtual keyword.

C++ Lab External Time TableExamination Branch
A.Y. : 2022-23   **SEM-I**

Date	Day	Branch	Session	HT.No	Total No. of Students
13/4/2023	THURSDAY	CSE-A	AN	21X31A0501 TO 21X31A0565 & 22X35A0501 TO 21X35A0508	69
15/4/2023	SATURDAY	CSE-B	FN	21X31A0566 TO 21X31A05D0 & 22X35A0509 TO 22X35A0516	69
11/4/2023	TUESDAY	CSE-C	FN	21X31A05D1 TO 21X31A05J4 & 22X35A0517 TO 22X35A0522	68

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SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY
LAB EXTERNAL EXAMINATIONS TIME-TABLE, APR-2023 (I SEM)
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, IOT,CS,AIML,AI&DS
TIMINGS FN: 10:00 AM TO 1:0 PM AN: 1:00PM TO 4:00PM   Date:04/04/2023

S.NO	YEAR/ SEC	NAME OF THE LAB	DATE	SESSION	LOCATION	NAME OF THE INTERNAL EXAMINER	NAME OF THE EXTERNAL EXAMINER
1	II-I - CSE-A	A&DE LAB	15/4/2023	FN	LAB NO-A-114	Mrs.S.Alekhya	Mr. S. Kranthi Reddy (9573013861)
2		DATA STRUCTURES LAB	12/4/2023	AN	LAB NO-1,2	Mrs.D.Rajeshwari	Mr.G. Harish Reddy (9963992727)
3		IT WORKSHOP LAB	11/4/2023	FN	LAB NO- 10A	Mrs. Ch. Sai Vijaya	Mrs. R. Akshara(9177841919)
4		C++ PROGRAMMING LAB	13/4/2023	AN	LAB NO- 4,6	Mrs.PH. Swarna Rekha	Dr. B.Srinu (8185924275)
5	II-I - CSE-B	A&DE LAB	11/4/2023	FN	LAB NO-A-114	Mr.K.Mallaiah	Mr. S. Kranthi Reddy (9573013861)
6		DATA STRUCTURES LAB	13/4/2023	FN	LAB NO-1,2	Mrs.D.Uma	Mr. S. Kranthi Reddy (9573013861)
7		IT WORKSHOP LAB	12/4/2023	AN	LAB NO- 4,6	Mrs.T.Ramya Priya	Mr. CH. Chaitanya kumar (8500330546)
8		C++ PROGRAMMING LAB	15/4/2023	FN	LAB NO- 4,6	Mrs.P.Swathi	Mrs.K.L. Anusha(9704446862)
9	II-I - CSE-C	A&DE LAB	12/4/2023	AN	LAB NO-A-114	Mrs.T.Divya	Mr. S. Kranthi Reddy (9573013861)
10		DATA STRUCTURES LAB	13/4/2023	AN	LAB NO-1,2	Mrs.R.Padma	Mrs. Durga Devi (9948353838)
11		IT WORKSHOP LAB	15/4/2023	FN	LAB NO- 10A	Mrs.T.Ramya Priya	Mrs.K.L. Anusha (9704446862)
12		C++ PROGRAMMING LAB	11/4/2023	FN	LAB NO- 4,6	Mrs.Jakkula Priyanka	Mr. U.Nehru (9912226377)

B.Radha Kamul
HOD
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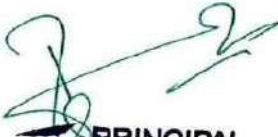KhalsaIbrahimpatnam,Sheriguda(V),Ibrahimpatnam(M),RangaReddyDist.,Telangana–501510
Website:https://siiet.ac.in/**

Lab Occupancy Chart

C++ Programming Lab

Period/ Day	1	2	3	4	1:00-1:30	5	6	7
	9:40-10:30	10:3-11:20	11:20-12:10	12:10 - 1:00		1:30-2:20	2:20-3:10	3:10-4:00
Monday		C++ LAB (II CSE-B)BATCH-II			L U N C H	SL(III ECE-C) BATCH-II		
Tuesday						C++ LAB (II CSE-C) BATCH-II		
Wednesday		SL(III ECE-B) BATCH-I				C++ LAB (II CSE-A)BATCH-II		
Thursday		SL(III ECE-C) BATCH-I				C++ LAB (II CSE-B)BATCH-II / SL(III ECE-A) BATCH-I		
Friday		C++ LAB (II CSE-A)BATCH-I				SL(III ECE-B) BATCH-II		
Saturday		C++ LAB (II CSE-C)BATCH-II / SL(III ECE-A) BATCH-II						

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Do's and Don'ts

Do's

1. Come with completed observation and record.

2. Remove your shoes or wear foot socks before you enter the lab.

3. Always keep quiet.Be considerate to other lab users.

4. Report any problems with the computer to the person incharge.

5. Shutdown the computer properly.

6. Wear ID card before entering into the lab.

7. Read and understand how to carry out an activity thoroughly before coming to the laboratory.

8. Write in time, Out time and system details in the login register.

Don't s

1. Do not touch any part of the computer with wet hands.

2. Do not change system settings.

3. Do not hit the keys on the computer too hard.

4. Don't damage, remove, or disconnect any labels, parts, cables or equipment.

5. Do not install or download any software or modify or delete any system files on any lab computers.

6. Do not disturb your neighboring students. They may be busy in completing tasks.

7. Do not remove any thing from the computer laboratory without permission.

8. Do not use pen drives.

C++ PROGRAMMING LAB
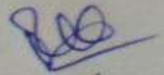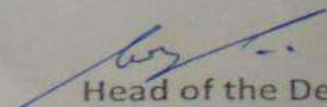
BLOCK: A   FLOOR: I   ROOM NO: A-105
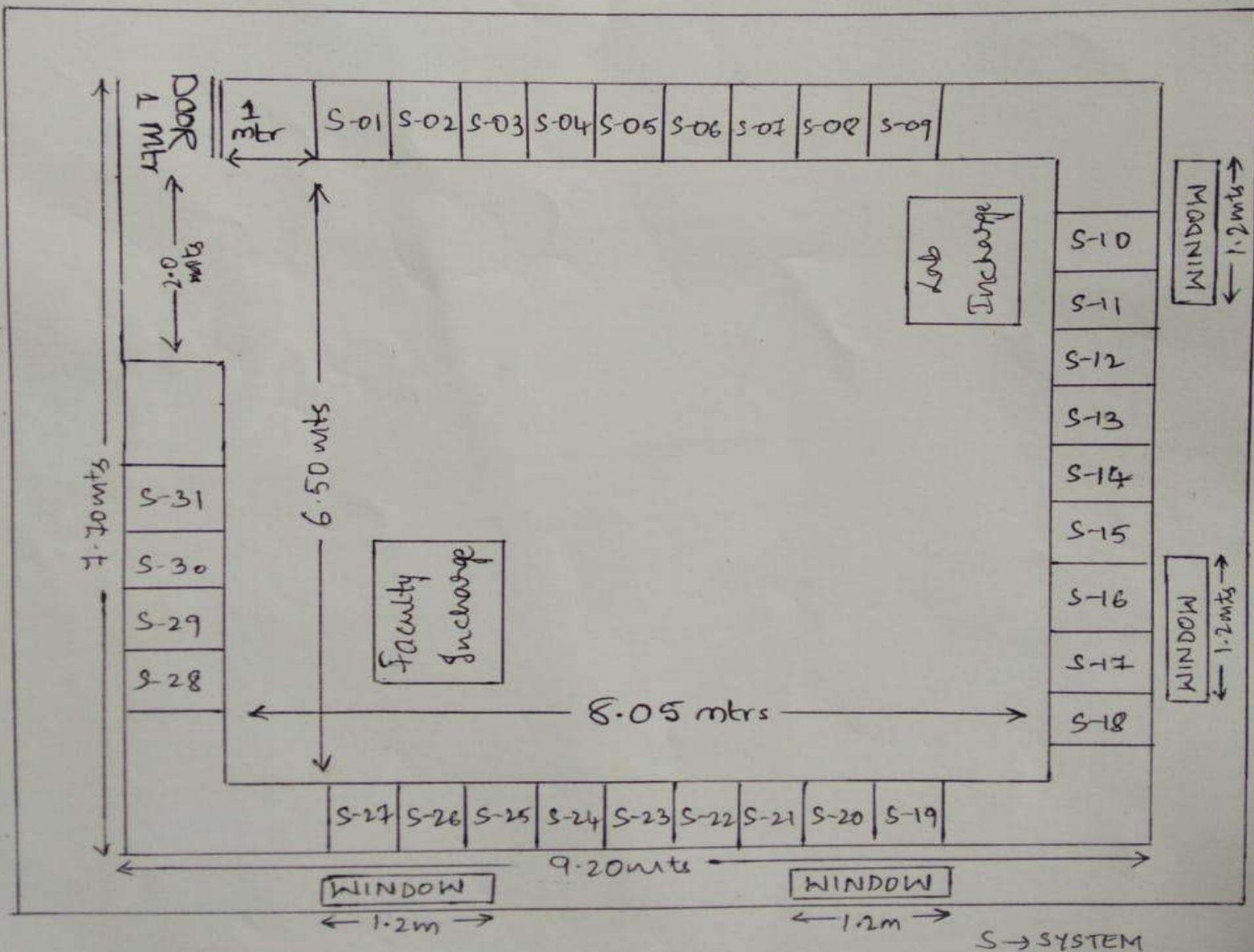
Lab Area(In. Sqm.)=6.50 x 8.06= 52.325 Sqm

Lab Area (In. Sft.)=69.96X86.64=563.22 Sft

LAB In-charge

Head of the Department

Lab Manual Link

https://drive.google.com/file/d/1wGSZM6Bbou8qL68z-2HIYOkbQ-d8ppoL/view?usp=sharing

SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY
Department of Computer Science and Engineering

Name of the faculty: Mrs.P H SWARNA REKHA   Academic Year: 2022-23

Branch Section: CSE-A   Examination : Lab Internal I

Course Name: C++ PROGRAMMING LAB   Year/sem : II/I

S.No	Hall Ticket Number	A+A+CD+MG	T+P+C+R	DDE
Max. Marks ==>		5	5	15
1	21X31A0501	5	4	15
2	21X31A0502	5	5	15
3	21X31A0503	5	4	13
4	21X31A0504	4	4	13
5	21X31A0505	5	4	14
6	21X31A0506	5	5	15
7	21X31A0507	4	5	14
8	21X31A0508	3	4	12
9	21X31A0509	5	4	15
10	21X31A0510	5	5	10
11	21X31A0511	5	5	13
12	21X31A0512	4	3	12
13	21X31A0513	5	4	14
14	21X31A0514	5	5	12
15	21X31A0515	5	4	13
16	21X31A0516	5	3	12
17	21X31A0517	4	5	14
18	21X31A0518	5	5	12
19	21X31A0519	5	4	14
20	21X31A0520	4	4	11
21	21X31A0521	5	5	12
22	21X31A0522	5	5	13
23	21X31A0523	5	5	14
24	21X31A0524	5	5	13
25	21X31A0525	5	5	15
26	21X31A0526	5	5	15
27	21X31A0527	5	5	13
28	21X31A0528	3	3	10
29	21X31A0529	5	5	15
30	21X31A0530	5	5	12
31	21X31A0531	4	3	12

32	21X31A0532	3	4	12
33	21X31A0533	5	5	13
34	21X31A0534	5	5	12
35	21X31A0535	55	5	12
36	21X31A0536	5	5	10
37	21X31A0537	5	5	12
38	21X31A0538	3	5	13
39	21X31A0539	5	3	10
40	21X31A0540	5	5	15
41	21X31A0541	5	5	12
42	21X31A0542	5	5	13
43	21X31A0543	5	5	13
44	21X31A0544	4	4	10
45	21X31A0545	5	5	14
46	21X31A0546	3	3	10
47	21X31A0547	3	3	10
48	21X31A0548	5	5	13
49	21X31A0549	5	5	11
50	21X31A0550	5	5	14
51	21X31A0552	4	5	12
52	21X31A0554	5	5	15
53	21X31A0555	5	5	13
54	21X31A0556	5	5	10
55	21X31A0557	5	5	15
56	21X31A0559	5	5	13
57	21X31A0560	5	5	15
58	21X31A0561	4	4	10
59	21X31A0562	5	5	12
60	21X31A0563	5	4	13
61	21X31A0564	5	5	14
62	21X31A0565	5	5	13
63	22X35A0501	5	5	12
64	22X35A0502	5	5	13
65	22X35A0503	5	5	13
66	22X35A0504	5	4	13
67	22X35A0505	5	5	15
68	22X35A0506	5	5	12
69	22X35A0507	5	5	13
70	22X35A0508	5	5	14
Target set by the faculty / HoD		3.00	3.00	9.00
Number of students performed above the target		70	70	70
Number of students attempted		70	70	70
Percentage of students scored more than target		100%	100%	100%

CO Mapping with Exam Questions:

CO – 1	**Y**	**y**	Y
CO – 2	**Y**	**y**	Y
CO – 3	**Y**	**y**	Y
CO – 4	**Y**	**y**	Y
CO – 5	**Y**	**y**	Y
CO – 6	**Y**	**y**	Y

CO Attainment based on Exam Questions:

CO – 1	100%	100%	100%
CO – 2	100%	100%	100%
CO – 3	100%	100%	100%
CO – 4	100%	100%	100%
CO – 5	100%	100%	100%
CO – 6	100%	100%	100%

CO	**Internal practical**	**DDE**	**Over all**
CO-1	100%	100%	100%
CO-2	100%	100%	100%
CO-3	100%	100%	100%
CO-4	100%	100%	100%
CO-5	100%	100%	100%
CO-6	100%	100%	100%

Attainment (Internal 1 Examination) = 3

SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY
Department of Computer Science and Engineering

Name of the faculty: Mrs.P H SWARNA REKHA   Academic Year: 2022-23

Branch Section: CSE-A   Examination : Lab Internal – II

Course Name: C++ PROGRAMMING LAB   Year/sem : II/I

S.No	HT No.	A+A+CD+MG	T+P+C+R	DDE
Max. Marks ==>		5	5	15
1	21X31A0501	5	5	12
2	21X31A0502	5	4	12
3	21X31A0503	4	5	12
4	21X31A0504	5	5	13
5	21X31A0505	5	4	12
6	21X31A0506	5	5	14
7	21X31A0507	4	4	13
8	21X31A0508	5	4	12
9	21X31A0509	5	4	13
10	21X31A0510	3	3	10
11	21X31A0511	5	4	12
12	21X31A0512	3	4	12
13	21X31A0513	4	5	12
14	21X31A0514	5	5	12
15	21X31A0515	5	4	13
16	21X31A0516	4	5	13
17	21X31A0517	4	4	13
18	21X31A0518	5	4	12
19	21X31A0519	5	5	13
20	21X31A0520	4	5	14
21	21X31A0521	4	5	12
22	21X31A0522	5	4	14
23	21X31A0523	4	5	13
24	21X31A0524	5	4	13
25	21X31A0525	5	5	15
26	21X31A0526	5	5	14
27	21X31A0527	5	5	11
28	21X31A0528	4	5	12
29	21X31A0529	5	5	12
30	21X31A0530	5	4	12
31	21X31A0531	3	3	10
32	21X31A0532	5	5	10

33	21X31A0533	5	5	13
34	21X31A0534	5	5	15
35	21X31A0535	3	3	10
36	21X31A0536	5	5	11
37	21X31A0537	3	3	10
38	21X31A0538	5	5	12
39	21X31A0539	4	5	12
40	21X31A0540	5	5	13
41	21X31A0541	5	5	12
42	21X31A0542	5	5	11
43	21X31A0543	4	5	12
44	21X31A0544	3	3	10
45	21X31A0545	5	5	14
46	21X31A0546	5	5	10
47	21X31A0547	3	3	10
48	21X31A0548	5	4	12
49	21X31A0549	5	5	10
50	21X31A0550	5	4	12
51	21X31A0552	5	4	11
52	21X31A0554	5	5	14
53	21X31A0555	5	5	11
54	21X31A0556	5	5	12
55	21X31A0557	5	4	13
56	21X31A0559	5	5	10
57	21X31A0560	5	5	14
58	21X31A0561	5	5	11
59	21X31A0562	5	5	13
60	21X31A0563	5	4	12
61	21X31A0564	4	5	12
62	21X31A0565	5	5	11
63	22X35A0501	4	5	12
64	22X35A0502	5	5	14
65	22X35A0503	5	4	12
66	22X35A0504	5	5	10
67	22X35A0505	5	5	13
68	22X35A0506	5	5	11
69	22X35A0507	5	5	12
70	22X35A0508	5	4	13
Target set by the faculty / HoD		3.00	3.00	9.00
Number of students performed above the target		70	70	70
Number of students attempted		70	70	70
Percentage of students scored more than target		100%	100%	100%

CO Mapping with Exam Questions:

CO – 1	y	Y	Y
CO – 2	y	Y	Y
CO – 3	y	Y	Y
CO – 4	y	Y	Y
CO – 5	y	Y	Y
CO – 6	y	Y	Y

CO Attainment based on Exam Questions:

CO – 1	100%	100%	100%
CO – 2	100%	100%	100%
CO – 3	100%	100%	100%
CO – 4	100%	100%	100%
CO – 5	100%	100%	100%
CO – 6	100%	100%	100%

CO	Intrnal practical	DDE	Over alI
CO-1	100%	100%	100%
CO-2	100%	100%	100%
CO-3	100%	100%	100%
CO-4	100%	100%	100%
CO-5	100%	100%	100%
CO-6	100%	100%	100%

Attainment (Internal 2 Examination) =3

SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY
Department of Computer Science and Engineering

Name of the faculty: Mrs.P H SWARNA REKHA   Academic Year: 2022-23

Branch Section: CSE-A   Examination : External Internal

Course Name: C++ PROGRAMMING LAB   Year/sem : II/I

S.No	Roll Number	Marks Secured	S.No	Roll Number	Marks Secured
1	21X31A0501	68	36	21X31A0536	65
2	21X31A0502	68	37	21X31A0537	66
3	21X31A0503	66	38	21X31A0538	67
4	21X31A0504	67	39	21X31A0539	65
5	21X31A0505	68	40	21X31A0540	68
6	21X31A0506	68	41	21X31A0541	65
7	21X31A0507	67	42	21X31A0542	66
8	21X31A0508	66	43	21X31A0543	65
9	21X31A0509	68	44	21X31A0544	65
10	21X31A0510	65	45	21X31A0545	69
11	21X31A0511	66	46	21X31A0546	65
12	21X31A0512	65	47	21X31A0547	-1
13	21X31A0513	67	48	21X31A0548	67
14	21X31A0514	66	49	21X31A0549	65
15	21X31A0515	67	50	21X31A0550	69
16	21X31A0516	66	51	21X31A0552	68
17	21X31A0517	67	52	21X31A0554	68
18	21X31A0518	67	53	21X31A0555	66
19	21X31A0519	66	54	21X31A0556	69
20	21X31A0520	65	55	21X31A0557	68
21	21X31A0521	68	56	21X31A0559	65
22	21X31A0522	65	57	21X31A0560	68
23	21X31A0523	66	58	21X31A0561	65
24	21X31A0524	69	59	21X31A0562	66
25	21X31A0525	65	60	21X31A0563	68
26	21X31A0526	67	61	21X31A0564	67
27	21X31A0527	68	62	21X31A0565	66
28	21X31A0528	65	63	22X35A0501	65
29	21X31A0529	67	64	22X35A0502	68
30	21X31A0530	65	65	22X35A0503	69
31	21X31A0531	65	66	22X35A0504	65
32	21X31A0532	65	67	22X35A0505	68
33	21X31A0533	67	68	22X35A0506	65
34	21X31A0534	68	69	22X35A0507	-1
35	21X31A0535	65	70	22X35A0508	68
Class Average mark		65	Attainment Level		% students
Number of students performed above the target		68	1		60%
Number of successful students		70	2		70%
Percentage of students scored more than target		97%	3		>80%
Attainment level		**3**			

SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY
Department of Computer Science and Engineering
Course Outcome Attainment

Name of the faculty :   Mrs. P H SWARNA REKHA   Academic Year: 2022-2023

Branch & Section: CSE-A   Year/ Semister: II-I

Course Name: C++ PROGRAMMING LAB

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam	University Exam	Attainment Level
CO1	3.00	3.00	3.00	3.00	3.00
CO2	3.00	3.00	3.00	3.00	3.00
CO3	3.00	3.00	3.00	3.00	3.00
CO4	3.00	3.00	3.00	3.00	3.00
CO5	3.00	3.00	3.00	3.00	3.00
CO6	3.00	3.00	3.00	3.00	3.00
Internal & University Attainment:			3.00	3.00	
Weightage			70%	30%	
CO Attainment for the course (Internal, University)			2.10	0.90	
CO Attainment for the course (Direct Method)			3.00		

Overall course attainment level : **3.00**