



Sri Indu Institute of Engineering & Technology

Recognized Under 2(f) of UGC Act 1956

Approved by AICTE, New Delhi

Affiliated to JNTUH, Hyderabad.

COURSE FILE

ON

SOFTWARE ENGINEERING LAB

Course Code - CS505PC

III B.Tech I-SEMESTER

A.Y.: 2022-2023

Prepared by

Ms.S. Anitha

Assistant Professor

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


PRINCIPAL
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Sheriguda(VIII), Ibrahimpatnam
R.R. Dist. Telangana-501 510.



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Name of the laboratory:	SOFTWARE ENGINEERING LAB
Room No	A-207
Course Code	CS505PC
Name of the lab In charge	G.Sree Kalpana
Name of the faculty In charge	S.Anitha

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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 continuously 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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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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 :** To provide ambience that enhances innovations, problem solving skills, 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.

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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 modelling 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 member or leader in diverse teams, and in multidisciplinary 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 these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary 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.

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**B.Tech in COMPUTER SCIENCE AND ENGINEERING****III YEAR COURSE STRUCTURE AND SYLLABUS (R18)****Applicable From 2018-19 Admitted Batch****III YEAR I SEMESTER**

S. No.	Course Code	Course Title	L	T	P	Credits
1	CS501PC	Formal Languages & Automata Theory	3	0	0	3
2	CS502PC	Software Engineering	3	0	0	3
3	CS503PC	Computer Networks	3	0	0	3
4	CS504PC	Web Technologies	3	0	0	3
5	CS515PE	Principles of Programming Languages(PE-I)	3	0	0	3
6		Professional Elective -II	3	0	0	3
7	CS505PC	Software Engineering Lab	0	0	3	1.5
8	CS506PC	Computer Networks & Web Technologies Lab	0	0	3	1.5
9	EN508HS	Advanced Communication Skills Lab	0	0	2	1
10	*MC510	Intellectual Property Rights	3	0	0	0
		Total Credits	21	0	8	22

III YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	CS601PC	Machine Learning	3	1	0	4
2	CS602PC	Compiler Design	3	1	0	4
3	CS603PC	Design and Analysis of Algorithms	3	1	0	4
4		Professional Elective – III	3	0	0	3
5		Open Elective-I	3	0	0	3
6	CS604PC	Machine Learning Lab	0	0	3	1.5
7	CS605PC	Compiler Design Lab	0	0	3	1.5
8		Professional Elective-III Lab	0	0	2	1
9	*MC609	Environmental Science	3	0	0	0
		Total Credits	18	3	8	22

***MC - Environmental Science – Should be Registered by Lateral Entry Students Only.**

Note: Industrial Oriented Mini Project/ Summer Internship is to be carried out during the summer vacation between 6th and 7th semesters. Students should submit report of Industrial Oriented Mini Project/ Summer Internship for evaluation.

Professional Elective-I

CS511PE	Information Theory & Coding
CS512PE	Advanced Computer Architecture
CS513PE	Data Analytics
CS514PE	Image Processing
CS515PE	Principles of Programming Languages

Professional Elective - II

CS521PE	Computer Graphics
CS522PE	Advanced Operating Systems
CS523PE	Informational Retrieval Systems
CS524PE	Distributed Databases
CS525PE	Natural Language Processing

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B.Tech. in COMPUTER SCIENCE AND ENGINEERING

III YEAR LABS SYLLABUS (R18)
Applicable From 2018-19 Admitted Batch

SOFTWARE ENGINEERING LAB

III Year B.Tech. CSE I-Sem

L T P C

0 0 3 1.5

Prerequisites

Co-requisite

1. A Course on "Software Engineering"

Course Objectives

1. To have hands on experience in developing a software project by using various software engineering principles and methods in each of the phases of software development.

Course Outcomes

1. Ability to translate end-user requirements into system and software requirements
2. Ability to generate a high-level design of the system from the software requirements
3. Will have experience and/or awareness of testing problems and will be able to develop a simple testing report

List of Experiments

Do the following 8 exercises for any two projects given in the list of sample projects or any other projects:

- 1) Development of problem statement.
- 2) Preparation of Software Requirement Specification Document, Design Documents and Testing Phase related documents.
- 3) Preparation of Software Configuration Management and Risk Management related documents.
- 4) Study and usage of any Design phase CASE tool
- 5) Performing the Design by using any Design phase CASE tools.
- 6) Develop test cases for unit testing and integration testing
- 7) Develop test cases for various white box and black box testing techniques.

Sample Projects:

1. Passport automation System
2. Book Bank
3. Online Exam Registration
4. Stock Maintenance System
5. Online course reservation system
6. E-ticketing
7. Software Personnel Management System
8. Credit Card Processing
9. E-book management System.
10. Recruitment system

TEXT BOOKS:

1. Software Engineering, A practitioner's Approach- Roger S. Pressman, 6th edition, Mc Graw Hill International Edition.
2. Software Engineering- Sommerville, 7th edition, Pearson Education.
3. The unified modeling language user guide Grady Booch, James Rumbaugh, Ivar Jacobson, Pearson Education.



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Khalsa Ibrahimpatnam, Sheriguda (V), Ibrahimpatnam (M), Ranga Reddy Dist., Telangana – 501 510
Website: <https://siiet.ac.in/>

Software Engineering Lab

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

AY:2022-2023

SEMESTER-I

Class : III CSE B

Course Outcomes:

After completing this course the student will be able to:

- C317.1: To understand the software engineering methodologies involved in the phases for project development.
- C317.2: To gain knowledge about open source tools used for implementing software engineering methods.
- C317.3: To exercise developing product-start-ups implementing software engineering methods.
- C317.4: Able to study the problem and identify the project scope, Objectives and Infrastructure.
- C317.5: Able to identify the modules of the project and differentiate the functional and non-functional requirements.
- C317.6: Able to create prototypes for the projects.

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
C317.1	2	3	-	-	-	-	-	-	-	-	-	-	-	1
C317.2	-	-	-	-	3	-	-	-	-	-	3	-	3	1
C317.3	-	-	2	-	2	-	-	-	-	-	-	-	2	-
C317.4	-	3	-	-	-	-	-	-	-	-	-	-	-	-
C317.5	1	2	2	-	-	-	-	-	-	-	-	-	-	-
C317.6	-	-	-	-	-	-	-	-	-	-	3	3	2	3
C317	1.5	2.6	2	-	2.5	-	-	-	-	-	3	3	-	-



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Software Engineering Lab

AY:2022-2023

SEMESTER-I

Class: III CSE-B

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

S.NO.	NAME OF THE PROGRAM	CO	PO/PSO	
			PO	PSO
1	1. CMS i) problem analysis ii) software requirement analysis	C317.1, C317.3& C317.4	PO1,PO2, PO9 & PO12	PSO1
2	1. CMS iii) design iv) proto type	C317.2, C317.5 & C317.6	PO1,PO3,PO5, PO9 & PO12	PSO2
3	2. EASY LEAVE i) problem analysis ii) software requirement analysis	C317.1, C317.3& C317.4	PO1,PO2, PO9 & PO12	PSO1
4	2. EASY LEAVE iii) design iv) proto type	C317.2, C317.5 & C317.6	PO1,PO3,PO5, PO9 & PO12	PSO2
5	3. E-BIDDING i) problem analysis ii) software requirement analysis	C317.1, C317.3& C317.4	PO1,PO2, PO9 & PO12	PSO1
6	3. E-BIDDING iii) design iv) proto type	C317.2, C317.5 & C317.6	PO1,PO3,PO5, PO9 & PO12	PSO2
7	4. E - CASH COUNTER i) problem analysis ii) software requirement analysis	C317.1, C317.3& C317.4	PO1,PO2, PO9 & PO12	PSO1
8	4. E - CASH COUNTER iii) design iv) proto type	C317.2, C317.5 & C317.6	PO1,PO3,PO5, PO9 & PO12	PSO2
ADDITIONAL PROGRAMS				
9	5. Introduction To software engineering Process	C317.1	PO1	PSO1
10	6. Dataflow diagram	C317.2& C317.3	PO2 & PO3	PSO2
11	7. Sample diagrams i) Class diagram ii) Sequence diagram	C317.2& C317.3	PO2, PO3 & PO5	PSO2
12	7. Sample diagrams iii) State chart diagram iv) Use case diagram	C317.2& C317.3	PO2, PO3 & PO5	PSO2



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TIME TABLE FOR A.Y 2022-23

Class: III-B. Tech CSE -B

Semester: I

LH. NO: A-202

W.E.F:09-09-2022

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	PPL	SE	INT	CN	L U N C H	DDB	FLAT	IPR
Tuesday	FLAT	LIB	SE	PPL		ACS LAB(BATCH-I)/SE LAB(BATCH-II)		
Wednesday	DDB	SE	COUN	FLAT		WT	CO-C/SS/DAA	
Thursday	CN	FLAT	DDB	PPL		CN&WT LAB(BATCH-I)/ACS LAB(BATCH-II)		
Friday	WT	CN&WT LAB(BATCH-II)/SE LAB(BATCH-I)				CN	FLAT	IPR
Saturday	SE	CN	WT			IPR	PPL	SPORTS

(T) – Tutorial (concern faculty)

Subject Code	Subject Name	Name of the Faculty	Subject Code	Subject Name	Name of the Faculty
CS501PC	Formal Language & Automata Theory	Mrs.R.Sravanthi	EN508HS	Advanced Communication Skills Lab	Mrs E Prarthana
CS502PC	Software Engineering	Ms.S.Anitha	MC510	Intellectual Property Rights	Mr Sannala Srinivas
CS503PC	Computer Networks	Mrs.N.Shilpa		CO-C/SS/DAA/ Fundamentals of AI	Ms.S.Anitha
CS504PC	Web Technologies	Mr. Jalli Anandarao	Sports	Sports	Mr.A.Vijay Kumar
CS505PC	Software Engineering Lab	Ms.S.Anitha/ Mrs.P.Swathi/ Mrs.E.Rupa	Internet	Internet	Mrs.N.Shilpa
CS506PC	Computer Networks& Web Technologies Lab	Mrs.N.Shilpa/ Mr. Jalli Anandarao / Mr.A.Vijay Kumar	LIB	Library	Mrs.E.Rupa
CS515PE	Principal of Programming languages	Mrs.E.Rupa	COUN	Counselling	Mr. A. Vijay Kumar
CS524PE	Distributed Databases	Ms.K Mounika	CS504PC	Web Technologies	Mr M Dattatreya Goud(Adjunct)
Class In-Charge : Ms.S.Anitha		Mentor 1 : Ms.S.Anitha	Mentor 2: Mrs.R.Sravanthi		

Anitha
Class In-Charge

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HOD

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Software Engineering Lab

AY:2022-2023

SEMESTER-I

Class: III CSE-B

External Examination Question Paper

1. Write the following for the project **CMS**
 - a) Software Requirement Analysis
 - b) Design of the project
 - c) Construct a Prototype for the project
2. Write the following for the project **EASY LEAVE**
 - d) Software Requirement Analysis
 - e) Design of the project
 - f) Construct a Prototype for the project
3. Write the following for the project **E-BIDDING**
 - g) Software Requirement Analysis
 - h) Design of the project
 - i) Construct a Prototype for the project
4. Write the following for the project **ELECTRONIC CASH COUNTER**
 - j) Software Requirement Analysis
 - k) Design of the project
 - l) Construct a Prototype for the project

Faculty In-Charge

SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY

LAB EXTERNAL EXAMINATIONS TIME-TABLE, JAN-2023 (I SEM)

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

TIMINGS FN: 10:00 AM TO 12:30 PM AN: 1:30PM TO 4:00PM

S.NO	YEAR/ SEC	NAME OF THE LAB	DATE	SESSION	LOCATION	NAME OF THE INTERNAL EXAMINER	PHONE NUMBER	NAME OF THE EXTERNAL EXAMINER	PHONE NUMBER
1	III-I-	CN&WT LAB	23/01/2023	FN	LAB NO:7,8	Mrs.M.Sruthi	9177520098	Dr.Veeramallu	9959110038
2	CSE-A	SE LAB	24/01/2023	AN	LAB NO:8,9	Mrs.P.Soujanya	9966213688	Mrs.V.Swathi	7337228850
5	III-I-	SE LAB	24/01/2023	FN	LAB NO:8,9	Ms.S.Anitha	9000003453	Mr.MD.Sirajul	9963828634
6	CSE-B	CN&WT LAB	25/01/2023	AN	LAB NO:7,8	Mr.J.Anad Rao	9000992911	Mrs B.Mamatha	7702644268
7	III-I-	CN&WT LAB	23/01/2023	AN	LAB NO:7,8	Mr.A.Vijay Kumar	9000992911	Dr.Veeramallu	9959110038
8	CSE-C	SE LAB	24/01/2023	FN	LAB NO:4,5	Mrs.P.Swathi	9701240138	Mrs.V.Swathi	7337228850

B. Ramesh Kumar
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SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Computer Science and Engineering

Course Outcome Attainment (Internal Examination-1)

Name of the faculty : S.Anitha Academic Year: 2022-2023
Branch & Section: CSE-B Examination: I Internal
Lab Course Name: Software engineering lab Year/semester III/I

S.No	HT No.	R+O+A	V+V	E+E+R
	Max. Marks ==>	10	10	5
1	20X31A0561	10	10	3
2	20X31A0562	9	9	2
3	20X31A0563	8	9	2
4	20X31A0564	9	9	2
5	20X31A0565	9	9	3
6	20X31A0566	8	9	2
7	20X31A0567	8	8	2
8	20X31A0568	10	10	2
9	20X31A0569	10	10	3
10	20X31A0570	8	9	2
11	20X31A0571	10	10	3
12	20X31A0572	8	10	3
13	20X31A0573	8	9	2
14	20X31A0574	10	10	3
15	20X31A0575	10	10	3
16	20X31A0576	8	8	2
17	20X31A0577	8	8	3
18	20X31A0578	9	8	2
19	20X31A0579	9	8	2
20	20X31A0580	7	8	2
21	20X31A0581	10	10	4
22	20X31A0582	8	8	4
23	20X31A0583	10	10	4
24	20X31A0584	8	8	4
25	20X31A0585	9	8	2
26	20X31A0586	8	8	4
27	20X31A0587	8	8	3
28	20X31A0588	10	10	4
29	20X31A0589	10	10	4
30	20X31A0590	8	8	2
31	20X31A0591	10	8	3
32	20X31A0592	9	9	3
33	20X31A0593	10	10	4
34	20X31A0594	8	8	4
35	20X31A0595	7	10	2
36	20X31A0596	8	8	4
37	20X31A0597	8	9	4
38	20X31A0598	8	8	4
39	20X31A0599	8	8	4
40	20X31A05A0	8	8	4
41	20X31A05A1	8	9	4
42	20X31A05A2	8	8	3
43	20X31A05A3	8	8	4
44	20X31A05A4	8	8	4
45	20X31A05A5	8	9	4



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Computer Science and Engineering

Course Outcome Attainment

Name of the faculty : S.ANITHA
Branch & Section: Lab CSE-B
Course Name: Software Engineering

Academic Year: 2022-2023
Year / Semester: III/I

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam	University Exam	Attainment Level
CO1	3.00		3.00	3.00	3.00
CO2	3.00		3.00	3.00	3.00
CO3	3.00		3.00	3.00	3.00
CO4		3.00	3.00	3.00	3.00
CO5		3.00	3.00	3.00	3.00
CO6		3.00	3.00	3.00	3.00
Internal & University Attainment:			3.00	3.00	
Weightage			40%	60%	
CO Attainment for the course (Internal, University)			1.20	1.80	
CO Attainment for the course (Direct Method)			3.00		

Overall course attainment level 3.00



SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY

Department of Computer Science and Engineering

Program Outcome Attainment (from Course)

Name of Faculty: S.ANITHA
 Branch & Section: CSE-B
 Course Name: Software Engineering

Academic Year: 2022-2023
 Year / Semester: III/I

CO-PO mapping

PO/PS O/CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C317.1	2	3	-	-	-	-	-	-	-	-	-	-	-	1
C317.2	-	-	-	-	3	-	-	-	-	-	3	-	3	1
C317.3	-	-	2	-	2	-	-	-	-	-	-	-	2	-
C317.4	-	3	-	-	-	-	-	-	-	-	-	-	-	-
C317.5	1	2	2	-	-	-	-	-	-	-	-	-	-	-
C317.6	-	-	-	-	-	-	-	-	-	-	3	3	2	3
C317	1.5	2.6	2	-	2.5	-	-	-	-	-	3	3	-	-

CO	Course Outcome Attainment
CO1	3.00
CO2	3.00
CO3	3.00
CO4	3.00
CO5	3.00
CO6	3.00
Overall course attainment level	3.00

PO-ATTAINMENT

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO Attainment	2.50	3.00	1.20	1.50	1.00	1.00			2.50	1.00		2.17

CO contribution to PO - 33%, 67%, 100% (Level 1/2/3)



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Khalsa Ibrahimpatnam, Sheriguda (V), Ibrahimpatnam (M), Ranga Reddy Dist., Telangana – 501 510

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

LAB OCCUPANCY CHART

SOFTWARE ENGINEERING LAB

	I 9:40-10:30	II 10:30-11:20	III 11:20-12:10	IV 12:10-1:00	LUNCH	V 1:30-2:20	VI 2:20-3:10	VII 3:10-4:00
MON					LUNCH			
TUE						III BTECH I SEM CSE-B (BATCH-I)		
WED								
THU								
FRI		III BTECH I SEM CSE-B (BATCH-II)						
SAT								

B. Rakha Kaur
Computer Science & Engg. Dept.
SRI INDU INSTITUTE OF ENGG & TECH.
Sheriguda(V), Ibrahimpatnam(M), R.R.Dist-501 510.


PRINCIPAL
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Sheriguda(VIII), Ibrahimpatnam
R.R. Dist. Telangana-501 510.



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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 in charge.
5. Shut down 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'ts

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 anything from the computer laboratory without permission.
8. Do not use pen drives.

Lab In-charge



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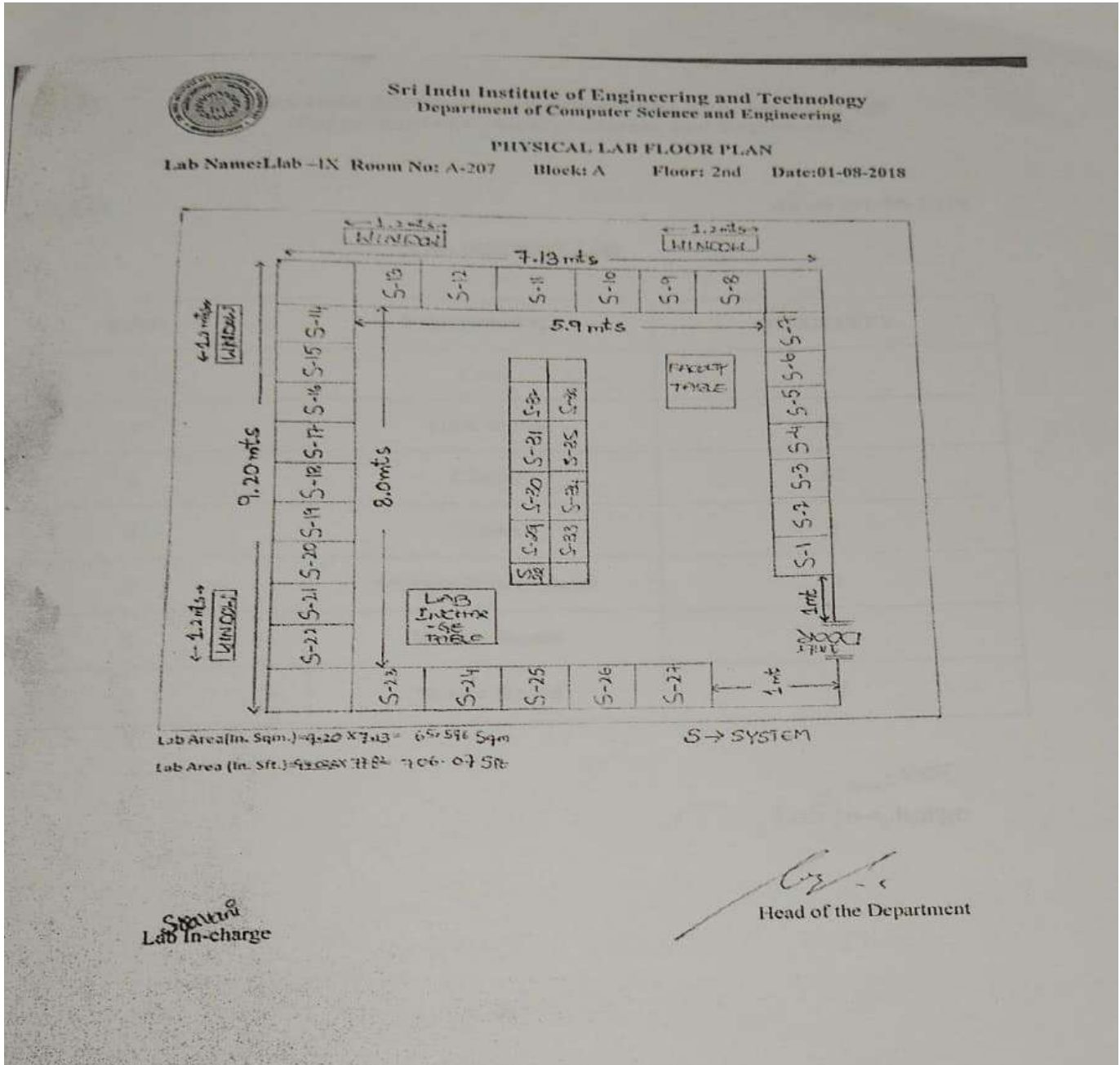
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LAB MANUAL LINK

<https://drive.google.com/file/d/1MyRG1b8sWNi3JZEjBlBpnggzB8Qk70Cz/view?usp=sharing>