DEPARTMENT OF

HUMANITIES & BASIC SCIENCES

COURSE FILE

Branch: MECH   **Class: B.Tech- I Year-I SEM**

Subject: C PROGRAMMING AND DATA STRUCTURES LABORATORY

Subject Code:R22CSE1129

Academic Year: 2022-2023   **Regulation: R22**

Core/Elective/H&S: H&S   **Credits: 1**

Prepared By

Name: G.Anitha

Assistant Professor.

Verified By:

Head of the Department:

Name: N Shailaja

Sri Indu College of Engineering & Technology :: Sheriguda (V), R.R.Dist

Department of Mechanical Engineering

Lab Course File - Check List

LAB FILE:

S.NO.	NAME OF THE FILE	Y/N
1	V.M,PEO - HoD signed Xerox Copy	Y
2	PO,PSOs - HoD signed Xerox Copy	Y
3	PO,PSOs, COs and Mapping - prepared and signed by faculty in charge	Y
4	List of Experiments as per the syllabus - University Xerox copy	Y
5	List of Experiments including additional experiments and	Y
6	their CO, PO/PSOs mapping - prepared and signed by faculty in charge	Y
7	Class time table highlighting the lab - HoD signed Xerox copy	Y
8	Model practical End exam questions - prepared and signed by faculty in charge	Y
9	Schedule of end practical examinations - HoD signed Xerox copy	Y
10	List of examiners - HoD signed Xerox copy	Y
11	Cycle chart to known the batch size of experiments setup –	Y
12	prepared and signed by faculty in charge	Y
13	Lab occupancy chart (including names of Lab, faculty in charges and support staff)	Y
14	- prepared and signed by Lab in charge	Y
15	List of Major equipment - prepared and signed by Lab in charge	Y
16	List of the equipment(S.No., Description, suppliers, Date of purchase, Unit price,	Y
17	quantity, total) - prepared and signed by lab in charge	Y
18	List of Labeling/Number code of the equipment –	Y
19	prepared and signed by faculty in charge	Y

REGISTER/DOCUMENTS

S.NO.	NAME OF THE REGISTER/DOCUMENTS	Y/N
1	Stock Register (which includes date of purchase, supplier, Indent, GRN, bill number)	Y
2	-prepared and signed by Lab in charge	Y
3	Maintenance register(allocate minimum one page for each equipment)	Y
4	- prepared and signed by Lab in charge	Y
5	Consumables register(allocate minimum one page for each equipment)	Y
6	- prepared and signed by Lab in charge	Y
7	Student Log-in Register -prepared and signed by Lab in charge	Y
8	Service/Repair register - prepared and signed by Lab in charge	Y
9	Equipment operation manual provided by the manufacturer	Y
10	File of filled indents forms/Register - prepared and signed by faculty in charge	Y

INSTITUTION VISION

To be a premier Institution in Engineering & Technology and Management with competency, values and social consciousness

INSTITUTION MISSION

IM1   Provide high quality academic programs, training activities and research facilities.

IM2   Prpromote Continuous Industry-Institute interaction for employability, Entrepreneurship, leadership and research aptitude among stakeholders.

IM3   Contribute to the economical and technological development of the region, state and

PRINCIPAL

DEPARTMENT VISION

To be a centre of excellence in the field of Mechanical Engineering with professional and ethical responsibilities..

DEPARTMENT MISSION

The Department has following Missions:

DM1: To provide value added education in Mechanical and allied engineering.

DM2: To provide conductive environment orientedtowards innovation.

DM3: To impart training on emerging technologies like CAD/CAM with involvement of stake holders.

 DM4: Inculcating ethical values ability towards lifelong learning and social responsibilities.

HEAD OF THE DEPARMENT

PROGRAM OUTCOMES (PO'S)

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 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.

HEAD OF THE DEPARMENT

PROGRAM SPECIFIC OUTCOMES (PSO'S)

PSO	Statements
PSO1	**Basic Mechanical knowledge:** Apply basic knowledge related to Mechanical Design, Manufacturing, Thermal Engineering and CAD/CAM to solve various engineering problems
PSO2	**Design methods:** Design, verify and Fabricate suitable Mechanical functional elements for Automobile, high speed machinery and thermal applications
PSO3	**Experimentation and Analysis:** Analyze, plan and prototype Mechanical experiments/projects.

PROGRAM EDUCATIONAL OBJECTIVES (PEO'S)

PEO	Statements
PEO1	**Higher Degree and Professional Employment:** Graduates with ability to attract core industries and pursue higher studies in reputed institutions.
PEO2	**Domain Knowledge:** Graduates with a solid foundation in basic sciences andMechanical Engineering.
PEO3	**Engineering Career:** Graduates with effective communication skills, teamwork, multidisciplinary approach to provide professional environment.
PEO4	**Life Long Learning:** Graduates with excellence, leadership and lifelong learning for successful career.

Head of the Department

YEAR SEMESTER – I (REGULATION – R22)

ACADEMIC YEAR: 2022-2023

Course Code & Name: R22CSE1129& C PROGRAMMING AND DATA STRUCTURES
Course outcomes:
C119.1: Develop modular and readable C Programs (L3-Apply)
C119.2: Analyze the iteration with recursion using functions and solve problems using Strings .
(L4-Analyze)
C119.3: Illustration of pointers and implement memory management techniques and filehandling
approach. (L4-Analyze)
C119.4: Implement Stacks and Queues using arrays and linked list.(L3-Apply)
C119.5: Implement search and sort operations on arrays.(L3-Apply)
After learning the contents of this paper the student must be able to,

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C119.1	2	2	2	-	3	-	-	-	1	-	-	-	1	2	-
C119.2	1	2	2	-	3	-	-	-	-	-	-	-	1	1	-
C119.3	1	2	2	1	3	-	-	-	1	-	-	-	-	1	-
C119.4	1	2	2	1	3	-	-	-	1	-	-	-	1	1	-
C119.5	1	2	2	1	3	-	-	-	-	-	-	-	-	-	-
C119	1.16	2	2	0.66	3	-	-	-	0.5	-	-	-	0.5	0.83	-

SRI INDU COLLEGE OF ENGINEERING & TECHNOLOGY
(An Autonomous Institution under UGC, New Delhi)
Recognized under 2(f) and 12(B) of UGC Act 1956
NBA Accredited, Approved by AICTE and Permanently affiliated to JNTUH
Sheriguda (V), Ibrahimpatnam, R.R.Dist, Hyderabad - 501 510

D4

BR-22

Lr.No.SICET/AUTO/DAE/BR-22/Academic Cal./655/2022   Date: 27.10.2022

I B.TECH. ACADEMIC CALENDAR
ACADEMIC YEAR : 2022-2023

Dr.G. SURESH,
Principal,

To,
All the HODs
Sir,

Sub: SICET (Autonomous) - Academic & Evaluation - Academic Calendar for **I B.Tech - I & II Semester**
for the academic year **2022-23** – Reg.

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The approved Academic Calendar for **I B.Tech – I & II Semester** for the academic year **2022-23** is given below:

I SEMESTER

S.NO.	EVENT	PERIOD	DURATION
1.	Induction & Orientation Programme	03.11.2022	
2.	1st Spell of Instructions for covering First Two and a half Units	03.11.2022 – 28.12.2022	8 Weeks
3.	I Mid Examinations	29.12.2022 – 04.01.2023	1 Week
4.	Submission of I Mid Term Examination Marks to the Autonomous Section on or before	10.01.2023	
5.	2nd Spell of Instructions for covering Remaining Two and a half Units	05.01.2023 – 02.03.2023	8 Weeks
6.	II Mid Examinations	03.03.2023 – 09.03.2023	1 Week
7.	Preparation & Practical Examinations and Remidial Mid Test (RMT)	10.03.2023 – 16.03.2023	1 Week
8.	Submission of II Mid Term Examination Marks Marks to the Autonomous Section on or before	16.03.2023	
9.	I Semester End Examinations	17.03.2023 – 01.04.2023	2 Weeks

Commencement of Class-Work for I B.Tech - II Semester 03.04.2023

II SEMESTER

S.NO.	EVENT	PERIOD	DURATION
1.	Commencement of II Sem Class Work	03.04.2023	
2.	1st Spell of Instructions for covering First Two and a half Units (Including Summer Vacation)	03.04.2023 – 10.06.2023	10 Weeks
	Summer Vacation	15.05.2023 – 27.05.2023	2 Weeks
3.	I Mid Examinations	12.06.2023 – 17.06.2023	1 Week
4.	Submission of I Mid Term Examination Marks to the Autonomous Section on or before	23.06.2023	
5.	2nd Spell of Instructions for covering Remaining Two and a half Units	19.06.2023 – 12.08.2023	8 Weeks
6.	II Mid Examinations	14.08.2023 – 19.08.2023	1 Week
7.	Preparation & Practical Examinations and Remidial Mid Test (RMT)	21.08.2023 – 26.08.2023	1 Week
8.	Submission of II Mid Term Examination Marks Marks to the Autonomous Section on or before	26.08.2023	
9.	II Semester End Examinations	28.08.2023 – 09.09.2023	2 Weeks

Commencement of Class Work for II B.Tech – I Semester - 11.09.2023

ACE   CE   DEAN   PRINCIPAL

Copy to all the Heads of the Depts. and AO.

CONTROLLER OF EXAMINATIONS   DIRECTOR   PRINCIPAL
Sri Indu College of Engineering & Technology   (Academic Audit)   Sri Indu College of Engineering & Technology
(An Autonomous Institution under JNTUH)   Sri Indu College of Engineering & Technology   (An Autonomous Institution Under JNTUH)
Sheriguda (V), Ibrahimpatnam, R.R. Dist-501510.   Sheriguda, IBP, R.R. Dist-501510.   Sheriguda (V), Ibrahimpatnam, R.R. Dist-501510.

SRI INDU COLLEGE OF ENGINEERING & TECHNOLOGY
(An Autonomous Institution under UGC, New Delhi)

B.Tech. - I Year – I Semester

L	T	P	C
0	0	2	1

(R22CSE1129) C PROGRAMMING AND DATA STRUCTURES LABORATORY

Course Objectives: Introduce the importance of programming, C language constructs, program development, data structures, searching and sorting.

Course Outcomes:
1. Develop modular and readable C Programs
2. Solve problems using strings, functions
3. Handle data in files
4. Implement stacks, queues using arrays, linked lists.
5. To understand and analyze various searching and sorting algorithms.

List of Experiments:
1. Write a C program to find the sum of individual digits of a positive integer.
2. Fibonacci sequence is defined as follows: the first and second terms in the sequence are 0 and 1. Subsequent terms are found by adding the preceding two terms in the sequence.
3. Write a C program to generate the first n terms of the sequence.
4. Write a C program to generate all the prime numbers between 1 and n, where n is a value supplied by the user.
5. Write a C program to find the roots of a quadratic equation.
6. Write a C program to find the factorial of a given integer.
7. Write a C program to find the GCD (greatest common divisor) of two given integers.
8. Write a C program to solve Towers of Hanoi problem.
9. Write a C program, which takes two integer operands and one operator from the user, performs the operation and then prints the result. (Consider the operators +,-,*, /, % and useSwitch Statement)
10. Write a C program to find both the largest and smallest number in a list of integers.
11. Write a C program that uses functions to perform the following:
    i) Addition of Two Matrices
    ii) Multiplication of Two Matrices
12. Write a C program that uses functions to perform the following operations:
    i) To insert a sub-string in to a given main string from a given position.
    ii) To delete n Characters from a given position in a given string.
13. Write a C program to determine if the given string is a palindrome or not
14. Write a C program that displays the position or index in the string S where the string T begins, or – 1 if S doesn't contain T.
15. Write a C program to count the lines, words and characters in a given text.
16. Write a C program to generate Pascal's triangle.
17. Write a C program to construct a pyramid of numbers.
18. Write a C program that uses functions to perform the following operations:

i) Reading a complex number
ii) Writing a complex number
iii) Addition of two complex numbers
iv) Multiplication of two complex numbers

(Note: represent complex number using a structure.)

i.   Write a C program which copies one file to another.
ii. Write a C program to reverse the first n characters in a file.

(Note: The file name and n are specified on the command line.)

20.
i.   Write a C program to display the contents of a file.
ii. Write a C program to merge two files into a third file (i.e., the contents of the first filefollowed by those of the second are put in the third file)

21. Write a C program that uses functions to perform the following operations on singly linkedlist.:
a. Creation   ii) Insertion   iii) Deletion   iv) Traversal

22. Write C programs that implement stack (its operations) using
a. Arrays   ii) Pointers

23. Write C programs that implement Queue (its operations) using
a. Arrays   ii) Pointers

24. Write a C program that implements the following sorting methods to sort a given list of integers in ascending order i) Bubble sort ii) Selection sort iii)Insertion sort

25. Write C programs that use both recursive and non recursive functions to perform the followingsearching operations for a Key value in a given list of integers:
a. Linear search   ii) Binary search

TEXT BOOKS:
1. C Programming & Data Structures, B.A. Forouzan and R. F. Gilberg, Third Edition, CengageLearning.
2. Let us C, YeswanthKanitkar
3. C Programming, Balaguruswamy.

Academic year: 2022 - 2023
Course: B.Tech. - I Year – I-Semester (MECH)
SUB Name: C PROGRAMMING AND DATA STRUCTURES LABORATORY
SUB CODE: R22CSE1129

LIST OF PROGRAMS

S.No	Name Of The Experiment
1	Write a C program to find the sum of individual digits of a positive integer.
2	Fibonacci sequence is defined as follows: the first and second terms in the sequence are 0 and 1. Subsequent terms are found by adding the preceding two terms in the sequence.
3	Write a C program to generate the first n terms of the sequence.
4	Write a C program to generate all the prime numbers between 1 and n, where n is a value supplied by the user
5	Write a C program to find the roots of a quadratic equation.
6	Write a C program to find the factorial of a given integer.
7	Write a C program to find the GCD (greatest common divisor) of two given integers.
8	Write a C program to solve Towers of Hanoi problem.
9	Write a C program, which takes two integer operands and one operator from the user, performs the operation and then prints the result. (Consider the operators +,-,*, /, % and use Switch Statement)
10	Write a C program to find both the largest and smallest number in a list of integers
11	Write a C program that uses functions to perform the following: i) Addition of Two Matrices ii) Multiplication of Two Matrices

12	Write a C program that uses functions to perform the following operations: i) To insert a sub-string in to a given main string from a given position. ii) To delete n Characters from a given position in a given string.
13	Write a C program to determine if the given string is a palindrome or not
14	Write a C program that displays the position or index in the string S where the string T begins, or – 1 if S doesn't contain T.
15	Write a C program to count the lines, words and characters in a given text.
16	Write a C program to generate Pascal's triangle.
17	Write a C program to construct a pyramid of numbers.
18	Write a C program that uses functions to perform the following operations: i) Reading a complex number ii) Writing iii) Addition of two complex numbers iv) Multiplication of two complex numbers
19	i. Write a C program which copies one file to another. ii. Write a C program to reverse the first n characters in a file. (Note: The file name and n are specified on the command line.)
20	i. Write a C program to display the contents of a file. ii. Write a C program to merge two files into a third file (i.e., the contents of the first file followed by those of the second are put in the third file)
21	Write a C program that uses functions to perform the following operations on singly linked list.: a. Creation ii) Insertion iii) Deletion iv) Traversal
22	Write C programs that implement stack (its operations) using a. Arrays ii) Pointers
23	Write C programs that implement Queue (its operations) using a. Arrays ii) Pointers
24	Write a C program that implements the following sorting methods to sort a given list of integers in ascending order i) Bubble sort ii) Selection sort iii)Insertion sort
25	Write C programs that use both recursive and non recursive functions to perform the following searching operations for a Key value in a given list of integers: a. Linear search ii) Binary search

Faculty in-charge

Academic year: 2022 - 2023
Course: B.Tech. - I Year – I-Semester (MECH)
SUB Name: C PROGRAMMING AND DATA STRUCTURES LABORATORY
SUB CODE: R22CSE1129

LIST OF EXPERIMENTS CYCLE WISE CHART

S.No	No. of Cycle	Name of the Experiment
1.		Write a C program to find the sum of individual digits of a positive integer.
2	WEEK-1	Fibonacci sequence is defined as follows: the first and second terms in the sequence are 0and 1. Subsequent terms are found by adding the preceding two terms in the sequence.
3		Write a C program to generate the first n terms of the sequence.
4	WEEK-2	Write a C program to generate all the prime numbers between 1 and n, where n is a valuesupplied by the user
5		Write a C program to find the roots of a quadratic equation.
6	WEEK-3	Write a C program to find the factorial of a given integer.
7		Write a C program to find the GCD (greatest common divisor) of two given integers.
8		Write a C program to solve Towers of Hanoi problem.are the initial velocity in m/sec (= 0) and acceleration in m/sec^2 (= 9.8 m/s^2)).
9	WEEK-4	Write a C program, which takes two integer operands and one operator from the user, performs the operation and

		then prints the result. (Consider the operators +,-,*, /, % anduse Switch Statement)
10		Write a C program to find both the largest and smallest number in a list of integers
11		Write a C program that uses functions to perform the following: (i) Addition of Two Matrices (ii) Multiplication of Two Matrices
12	**WEEK-5**	Write a C program that uses functions to perform the following operations: (i)To insert a sub-string in to a given main string from a given position. (ii)To delete n Characters from a given position in a given string
13		Write a C program to determine if the given string is a palindrome or not
14		Write a C program that displays the position or index in the string S where the string Tbegins, or – 1 if S doesn't contain T.
15		Write a C program to count the lines, words and characters in a given text.
16	**WEEK-6**	Write a C program to generate Pascal's triangle.
17		Write a C program to construct a pyramid of numbers.
18	**WEEK-7**	Write a C program that uses functions to perform the following operations: (i)Reading a complex number (ii)Writing (iii)Addition of two complex numbers (iv)Multiplication of two complex numbers
19		(i)Write a C program which copies one file to another. (ii)Write a C program to reverse the first n characters in a file. (Note: The file name and n are specified on the command line.)allocated for the new matrix as row and column counts may not be the same.
20		(i)Write a C program to display the contents of a file. (ii)Write a C program to merge two files into a third file (i.e., the contents of the first filefollowed by those of the second are put in the third file)

21	WEEK-8	Write a C program that uses functions to perform the following operations on singly linkedlist.: a. Creation ii) Insertion iii) Deletion iv) Traversal
22		Write C programs that implement stack (its operations) using a. Arrays ii) Pointers
23	WEEK-9	Write C programs that implement Queue (its operations) using a. Arrays ii) Pointers
24		Write a C program that implements the following sorting methods to sort a given list ofintegers in ascending order i) Bubble sort ii) Selection sort iii)Insertion sort
25	WEEK-10	Write C programs that use both recursive and non recursive functions to perform thefollowing searching operations for a Key value in a given list of integers: a. Linear search ii) Binary search

Sri Indu College of Engineering & Technology :: Sheriguda (V), R.R.Dist

Department of Mechanical Engineering

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SUB Name: C PROGRAMMING AND DATA STRUCTURES LABORATORY
SUB CODE: R22CSE1129

NOTICE

This is to inform all the B.tech1St year 1st Semester students that your lab external exams (Regular) will be conducted on March8th- March17 th The schedule is given below.

BRANCH	NAME OF THE LABORATORY	NO. OF STUDENTS	REG. NO.	DATE OF EXAM	EXTERNAL EXAMINAR	TIMINGS
MECH	CP&DS LAB	6	22D41A0301-306	13-3-2023	B.MANJULA	10AM-1.0PM

HOD   **DEAN**   **PRINCIPAL**

Academic year: 2022 - 2023
Course: B.Tech. - I Year – I Semester (MECH)
SUB Name: C PROGRAMMING AND DATA STRUCTURES LABORATORY
SUB CODE: R22CSE1129

Lab Experiments setup Cycle char

ROLL NO	Week-1	Week-2	Week-3	Week-4	Week-5	Week-6	Week-7	Week-8	Week-9	Week-10
22D41A0301- 22D41A0306	Pgm-1	Pgm-3	Pgm-5	Pgm-8	Pgm-11	Pgm-14	Pgm-17	Pgm-20	Pgm-22	Pgm-25
	Pgm-2	Pgm-4	Pgm-6	Pgm-9	Pgm-12	Pgm-15	Pgm-18	Pgm-21	Pgm-23	
			Pgm-7	Pgm-10	Pgm-13	Pgm-16	Pgm-19		Pgm-23	

Faculty in charge

Sri Indu College of Engineering & Technology :: Sheriguda (V), R.R.Dist

Department of Mechanical Engineering

Academic year: 2022 - 2023
Course: B.Tech. - I Year – I Semester (MECH)
SUB Name: C PROGRAMMING AND DATA STRUCTURES LABORATORY
SUB CODE: R22CSE1129
Students Batches for Lab Experiments Section Wise

MECH-SECTION

SL No.	Roll No.	Name
1	22D41A0301	AREDLA NARSIMHA REDDY
2	22D41A0302	AREDLA YASHWANTH REDDY
3	22D41A0303	G GOUTHAM
4	22D41A0304	GOLYALA VIGNESHWAR DAS
5	22D41A0305	KATROTH LOKESH
6	22D41A0306	MEEGADA UMA NAGA RAJU

Sri Indu College of Engineering & Technology :: Sheriguda (V), R.R.Dist

Department of Mechanical Engineering

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1st B.Tech 1st Semester MECH TIME TABLE 2022-23
INDIVIDUAL TIME TABLE: G.ANITHA

Time/ Day	9:40am-10:30am I	10:30am-11:20am II	11:20am-12:10pm III		12:40-01:30pm IV	1:30pm-2:20pm V	2:20pm-3:10pm VI	3:10pm-4:00pm VII
MON				L	←----------CP&DS LAB------→			
TUE				U				
WED				N				
THU				C				
FRI				H				
SAT								

LAB OCCUPANCY		Lab-1(First year Block)	
A	**Faculty Incharge:**	M.LEELA	
Section	**Lab assistant:**	E.Rajender	

Lab In charge

Sri Indu College of Engineering & Technology :: Sheriguda (V), R.R.Dist

Department of Mechanical Engineering

Academic Year: 2022-23
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SUB Name: C PROGRAMMING AND DATA STRUCTURES LABORATORY
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Programming for Problem Solving Lab Mid Marks

S.No	Roll Number		1st Internal Exam				2nd Internal Exam				
	Max Marks										
		Test (10)	D2d (10)	Viva (10)	Lab Project (10)	Total (40)	Test (10)	D2d (10)	Viva (10)	Lab Project (10)	Total (40)
1	22D41A0301	3	10	5	10	28	6	9	5	10	30
2	22D41A0302	1	10	4	10	25	0	10	5	10	25
3	22D41A0303	0	10	5	10	25	5	10	5	10	30
4	22D41A0304	2	10	4	10	26	7	10	7	10	34
5	22D41A0305	8	10	10	10	38	8	10	9	10	37
6	22D41A0306	4	10	4	10	28	6	10	6	10	32

Academic Year: 2022-23
Course: B.Tech. - I Year – I-Semester (MECH)
SUB Name: C PROGRAMMING AND DATA STRUCTURES LABORATORY
SUB CODE: R22CSE1129

List of Equipments

S.No	Name of the Equipments	Quantity
1	Computer Systems: CPU, LCD Monitor,Intel core i3,2 GB RAM, 320 GB Harddisk	60
2	Turbo c' software	60
3	LAN	60
4	Projector	1

Sri Indu College of Engineering & Technology :: Sheriguda (V), R.R.Dist

Department of Mechanical Engineering

LAB INCHARG

Academic Year: 2022-23
Course: B.Tech. - I Year – I-Semester (MECH)
SUB Name: C PROGRAMMING AND DATA STRUCTURES LABORATORY
SUB CODE: R22CSE1129

List of Equipments for the Programming for problem solving lab-1   **As on Sept 2014**

	Name	Make	Date	Quantity	Unit Cost	Total Cost in Rs.	Installed
1	LED Projector	NEC	12/09/2014	1	22,586	22,586	17/09/2014
2	MONITOR	ACER	12/09/2014	60	21,333	1,279980	17/09/2014
3	CPU	ACER	12/09/2014	60			17/09/2014
4	KEYBOARD	-------	12/09/2014	60			17/09/2014
5	MOUSE	ACER	12/09/2014	60			17/09/2014
6	Computer cables 1	------	24/9/2018	80no's	8.47	677	30/9/2018
7	Vga Cable 10mts	--------	24/9/2018	1	423	423	30/9/2018
8	Focus Celling Mount kit	--------	12/09/2014	1	485	485	17/09/2014
9	Focus cable VGS-15mts	-----	12/09/2014	1	1,449	1,449	17/09/2014
TOTAL:1,305,600							

Academic Year: 2022-23
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SUB Name: C PROGRAMMING AND DATA STRUCTURES LABORATORY
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List of Labeling /Number Code of the equipment:

SICET/H&S/PPSL/01	SICET/H&S/PPSL/36
SICET/H&S/PPSL/02	SICET/H&S/PPSL/37
SICET/H&S/PPSL/03	SICET/H&S/PPSL/38
SICET/H&S/PPSL/04	SICET/H&S/PPSL/39
SICET/H&S/PPSL/05	SICET/H&S/PPSL/40
SICET/H&S/PPSL/06	SICET/H&S/PPSL/41
SICET/H&S/PPSL/07	SICET/H&S/PPSL/42
SICET/H&S/PPSL/08	SICET/H&S/PPSL/43
SICET/H&S/PPSL/09	SICET/H&S/PPSL/44
SICET/H&S/PPSL/10	SICET/H&S/PPSL/45
SICET/H&S/PPSL/11	SICET/H&S/PPSL/46
SICET/H&S/PPSL/12	SICET/H&S/PPSL/47
SICET/H&S/PPSL/13	SICET/H&S/PPSL/48
SICET/H&S/PPSL/14	SICET/H&S/PPSL/49
SICET/H&S/PPSL/15	SICET/H&S/PPSL/50
SICET/H&S/PPSL/16	SICET/H&S/PPSL/51
SICET/H&S/PPSL/17	SICET/H&S/PPSL/52
SICET/H&S/PPSL/18	SICET/H&S/PPSL/53
SICET/H&S/PPSL/19	SICET/H&S/PPSL/54
SICET/H&S/PPSL/20	SICET/H&S/PPSL/55
SICET/H&S/PPSL/21	SICET/H&S/PPSL/56
SICET/H&S/PPSL/22	SICET/H&S/PPSL/57
SICET/H&S/PPSL/23	SICET/H&S/PPSL/58
SICET/H&S/PPSL/24	SICET/H&S/PPSL/59
SICET/H&S/PPSL/25	SICET/H&S/PPSL/60
SICET/H&S/PPSL/26	SICET/H&S/PPSL/61
SICET/H&S/PPSL/27	SICET/H&S/PPSL/62
SICET/H&S/PPSL/28	
SICET/H&S/PPSL/30	
SICET/H&S/PPSL/31	
SICET/H&S/PPSL/32	
SICET/H&S/PPSL/33	
SICET/H&S/PPSL/34	
SICET/H&S/PPSL/35	

Lab Incharge

Academic Year: 2022-23
Course: B.Tech. - I Year – I-Semester (MECH)
SUB Name: C PROGRAMMING AND DATA STRUCTURES LABORATORY
SUB CODE: R22CSE1129

Programming For Problem Solving Lab

SAFETY MEASURES

Study in the computer classroom is s priority for students. teachers. and parents. To ensure a safe computer classrooms. a list of procedures has been developed and provided to you in this student safety contract These procedures must be followed at all times.

These procedures must be followed at all times.

This contract is to be kept in your notebook as a constant remainder of the safety procedures.

1. General Safety Guidelines:

- All users of the laboratory are to follow the directions of Programmer/Laboratory Technician/ staff member.

- Students should not attempt to repair.open.tamper or interfere with any of the computer. printing cabling. air conditioning or other equipment in the laboratory.

- Please treat fellow users of the laboratory. and all equipment within the laboratory. with

- the appropriate level of care and respect.

- Turn of the computer once you are not using it.

- Do not plug in external devices without scanning them for computer viruses.

2. DO'S

- Know the location of the first aid box and the fire extinguisher and how to use them

- in case of an emergency.

- Read any broken plugs or exposed electrical wires to your faculty/laboratory programmer

- Immediately.

3. DONT's

- Do not open the system unit casing or monitor casing particularly when the power is

- turned on.Some internal components hold electric voltages of up to 1200volts. Which

- which can be fatal.

- Avoid stepping on electrical wires if any other computer cables.

- Do not touch. connect or disconnect any plug or cable without your faculty /laboratory

- Technician's permission

- Do not eat or drink in the laboratory.

Sri Indu College of Engineering & Technology :: Sheriguda (V), R.R.Dist

Department of Mechanical Engineering

Academic Year: 2022-23
Course: B.Tech. - I Year – I-Semester (MECH)
SUB Name: C PROGRAMMING AND DATA STRUCTURES LABORATORY
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INVENTORY LIST:

S.No	Name of the inventory item	Quantity
1	Laboratory Instructions	1
2	List of equipment's board	1
3	Tube light	4
4	Types of electrical switched board	2
5	Tube lights	4
6	Fans	6
7	Safety guide line board	1
8	Program outcomes board	1
9	System configuration	1
10	List of experiments	1
11	Notice board	1

Lab In charge