



ESTD : 2007

Sri Indu Institute of Engineering and Technology (Autonomous)

(Formerly RVR Institute of Engineering & Technology)

An Autonomous Institution Under UGC

NAAC Accredited. Recognized Under 2(f) of UGC Act 1956

EAMCET CODE: INDI

Approved by AICTE, New Delhi, & Affiliated to JNTUH, Hyderabad.

JNTUH CODE: X3



COURSE FILE

ON

C PROGRAMMING FOR ENGINEERS LABORATORY

Course Code- CS105ES

**I B.Tech Semester-I
A.Y.2022-2023**

Prepared by
B.RAJESHWARI
Asst. Professor

Head of the Department
Department of H&S
SRI INDU INSTITUTE OF ENGG & TECH
Sheriguda(VIII) Ibrahimpatnam (N) R.R. Dist-501 510

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



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Name of the Physical laboratory:	C PROGRAMMING FOR ENGINEERS LABORATORY
Course Code:	CS105ES
Room No:	D007&XII
Name of the lab in charge	D.SWAPNA
Name of the faculty in charge	B.RAJESHWARI

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INSTITUTE VISION & 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.

Head of the Department
Department of H&S
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1956 (Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)

Khalsa Ibrahimpatnam, Sheriguda (V), Ibrahimpatnam (M), Ranga Reddy Dist., Telangana-501510

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

PROGRAMME OUTCOMES

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, 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 & 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 & 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 & 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, give and receive clear instructions.

PO11: Project Management & 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.

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

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

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SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY
B.Tech. in ELECTRONICS AND COMMUNICATION ENGINEERING
COURSE STRUCTURE, I YEAR SYLLABUS (BR22 Regulations)

Applicable from Academic Year: 2022-23 Batch

I Year I Semester

S. No.	Course Code	Course Title	L	T	P	Credits
1.	MA101BS	Matrices and Calculus	3	1	0	4
2.	AP102BS	Applied Physics	3	1	0	4
3.	CS102ES	C Programming for Engineers	3	0	0	3
4.	ME102ES	Engineering Workshop	0	1	3	2.5
5.	EN104HS	English for Skill Enhancement	2	0	0	2
6.	EC101ES	Elements of Electronics and Communication Engineering	0	0	2	1
7.	AP105BS	Applied Physics Laboratory	0	0	3	1.5
8.	EN107HS	English Language and Communication Skills Laboratory	0	0	2	1
9.	CS105ES	C Programming for Engineers Laboratory	0	0	2	1
10.	*MC101ES	Environmental Science	3	0	0	0
11.		Induction Programme				
		Total	14	3	12	20

I Year II Semester

S. No.	Course Code	Course Title	L	T	P	Credits
1.	MA201BS	Ordinary Differential Equations and Vector Calculus	3	1	0	4
2.	CH203BS	Engineering Chemistry	3	1	0	4
3.	ME201ES	Computer Aided Engineering Graphics	1	0	4	3
4.	EE201ES	Basic Electrical Engineering	2	0	0	2
5.	EC201ES	Electronic Devices and Circuits	2	0	0	2
6.	CS202ES	Applied Python Programming Laboratory	0	1	2	2
7.	CH206BS	Engineering Chemistry Laboratory	0	0	2	1
8.	EE202ES	Basic Electrical Engineering Laboratory	0	0	2	1
9.	EC202ES	Electronic Devices and Circuits Laboratory	0	0	2	1
		Total	11	3	12	20



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C PROGRAMMING FOR ENGINEERS LABORATORY (Course Code: CS105ES)

B.Tech I Year I Sem.

L T P C
0 0 2 1

Course Outcomes: Upon completing this course, the students will be able to

1. Write algorithms and to draw flowcharts for solving problems and translate the algorithms/flowcharts to programs (in C language).
2. Use functions to develop modular reusable code.
3. Use arrays, pointers, strings and structures to formulate algorithms and programs.
4. Understand Searching and sorting algorithms

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	1	1	1	1	-	-	1	-	1	1
CO2	3	2	3	2	1	2	-	-	1	-	1	1
CO3	3	3	2	1	1	2	-	-	1	-	1	1
CO4	3	3	3	2	1	1	-	-	1		1	

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 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 to read in two numbers, x and n, and then compute the sum of this geometric progression: $1+x+x^2+x^3+\dots+x^n$ For example: if n is 3 and x is 5, then the program computes $1+5+25+125$. Print x, n, the sum Perform error checking. For example, the formula does not make sense for negative exponents - if n is less than 0. Have your program print an error message if $n < 0$, then go back and read in the next pair of numbers of without computing the sum. Are any values of x also illegal ? If so, test for them too.
19. 2's complement of a number is obtained by scanning it from right to left and complementing all the bits after the first appearance of a 1. Thus 2's complement of 11100 is 00100. Write a C program to find the 2's complement of a binary number.
20. Write a C program to convert a Roman numeral to its decimal equivalent.
21. 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.)

22.
 - 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.)
23.
 - 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)
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:
 - i) Linear search
 - ii) Binary search



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COURSE OUTCOMES

Course Name: C PROGRAMMING FOR ENGINEERS LABORATORY (C119)

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

CO No	DESCRIPTION
C119.1	Write the programs Basic Arithmetic and Logic Operations and Operators . (Knowledge).
C119.2	Illustrate the Arrays and Matrices Problems by using Functions. (Comprehension).
C119.3	Solve the String Manipulation Problems by using Functions. (Evaluation).
C119.4	Analyze the programs based on Loops and Mathematical Computations and Complex Numbers. (Analysis).
C119.5	Develop the programs using Files (Synthesis).
C119.6	Solve the Problems by using the Searching and Sorting Technique.(Evaluation)

Cos and POs & PSOs Mapping

CO/PO /PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C119.1	3	2	1	1	1	1			1		1	1	2	2
C119.2	3	2	3	2	1	2			1		1	1	3	3
C119.3	3	3	2	1	1	2			1		1	1	2	
C119.4	3	3	3	2	1	1			1		1			
C119.5	3	2	2								2			
C119.6	2	2	2	2	1								3	
C119	2.83	2.33	2.17	1.60	1.00	1.50			1.00		1.20	1.00	2.50	2.50

3-High

2-Medium

1-Low



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C PROGRAMMING FOR ENGINEERS LABORATORY

LIST OF PROGRAMS AND THEIR CO, PO, PSO MAPPING

Name of the program	CO	PO/PSO	
		PO	PSO
<p>1. Write a C program to find the sum of individual digits of a positive integer.</p> <p>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.</p> <p>3. Write a C program to generate the first n terms of the sequence.</p> <p>4. Write a C program to generate all the prime numbers between 1 and n, where n is a value supplied by the user.</p> <p>5. Write a C program to find the roots of a quadratic equation.</p> <p>6. Write a C program to find the factorial of a given integer.</p> <p>7. Write a C program to find the GCD (greatest common divisor) of two given integers.</p> <p>8. Write a C program to solve Towers of Hanoi problem.</p> <p>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)</p> <p>10. Write a C program to find both the largest and smallest number in a list of integers.</p>	C119.1	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO11, PO12	PSO1, PSO2

<p>11. Write a C program that uses functions to perform the following:</p> <p>i) Addition of Two Matrices ii) Multiplication of Two Matrices</p>	<p>C119.2</p>	<p>PO1,PO2,PO3,PO4, PO5,PO6,PO9,PO11, PO12</p>	<p>PSO1, PSO2</p>
<p>12. Write a C program that uses functions to perform the following operations:</p> <p>i) To insert a sub-string in to a given main string from a given position.</p> <p>ii) To delete n Characters from a given position in a given string.</p> <p>13. Write a C program to determine if the given string is a palindrome or not</p> <p>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.</p> <p>15. Write a C program to count the lines, words and characters in a given text.</p>	<p>C119.3</p>	<p>PO1,PO2,PO3,PO4, PO5,PO6,PO9,PO11, PO12</p>	<p>PSO1</p>
<p>16. Write a C program to generate Pascal's triangle.</p> <p>17. Write a C program to construct a pyramid of numbers</p> <p>18. Write a C program to read in two numbers, x and n, and then compute the sum of this geometric progression: $1+x+x^2+x^3+\dots+x^n$ For example: if n is 3 and x is 5, then the program computes $1+5+25+125$. Print x, n, the sum Perform error checking. For example, the formula does not make sense for negative exponents – if n is less than 0. Have your program print an error message if $n < 0$, then go back and read in the next pair of numbers of without computing the sum. Are any values of x also illegal ? If so, test for them too.</p> <p>19. 2's complement of a number is obtained by scanning it from right to left and complementing all the bits after the first appearance of a 1. Thus 2's complement of 11100 is 00100. Write a C program to find the 2's complement of a binary number.</p>	<p>C119.4</p>	<p>PO1,PO2,PO3,PO4, PO5,PO6,PO9,PO11,</p>	

<p>20. Write a C program to convert a Roman numeral to its decimal equivalent.</p> <p>21. Write a C program that uses functions to perform the following operations:</p> <p>i) Reading a complex number</p> <p>ii) Writing a complex number</p> <p>iii) Addition of two complex numbers</p> <p>iv) Multiplication of two complex numbers</p> <p>(Note: represent complex number using a structure.)</p>			
<p>22.</p> <p>i. Write a C program which copies one file to another.</p> <p>ii. Write a C program to reverse the first n characters in a file.</p> <p>(Note: The file name and n are specified on the command line.)</p> <p>23.</p> <p>i. Write a C program to display the contents of a file.</p> <p>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)</p>	C119.5	PO1,PO2,PO3,PO11	
<p>24. Write a C program that implements the following sorting methods to sort a given list of integers in ascending order</p> <p>i) Bubble sort ii) Selection sort iii) Insertion sort</p> <p>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:</p> <p>i) Linear search ii) Binary search</p>	C119.6	PO1,PO2,PO3,PO4, PO5	PSO1



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

Class :ECE

Semester: I

W.E.F-14-11-2022

LH:-D-107

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Class: ECE Semester: I W.E.F-14-11-2022 LH:-D-209

	I 9:40- 10:30	II 10:30 - 11:20	III 11:20- 12:10		IV 12.45- 1.35	V 1.35- 2.25	VI 2.25- 3.15	VII 3.15-4.00
MON	CPE	ES	M&C	L U N C H	AP	ENG	M&C	LIB
TUE	AP	M&C	ENG		CPE LAB			PPS(T)/AP(T)
WED	EWS/ELCS LAB				M&C	AP	CPE	ENG(T)/M&C(T)
THU	AP LAB				CPE	ENG	ES	AP(T)/CPE(T)
FRI	AP	CPE	ES		EWS/ELCS LAB			M&C(T)/ENG(T)
SAT	ENG	E-ECE LAB			CPE	M&C	AP	E-ECE(T)

Course Code	Course Name	Name of the Faculty	Course Code	Course Name	Name of the Faculty
MA101BS	Matrices and Calculus	T.THIRUPATHI REDDY	ME102ES	EWS LAB	M.V.B. KALYAN/B.SRINU NAIK
AP102BS	Applied Physics	B.SANTHI	AP105BS	Applied Physics - Lab	B.SANTHI/M.JANAIAH/ R. YADAGIRI RAO /M.MANISHA
CS102ES	C Programming for Engineers	B.RAJASHWARI	CS105ES	C Programming for Engineers Lab	B.RAJASHWARI/ D.SWAPNA
EN104HS	English for Skill Enhancement	G.VENKAT REDDY	EN107HS	English Language and Communication Skills Lab	G.VENKAT REDDY/E.PRARTHANA
MC101ES	Environmental Sciences	V.MOUNIKA	EC101ES	Elements of Electronics and Communication Engineering	Dr.S.SURESH/Dr.K.SRINIVAS A REDDY

B. Santhi
Class In-Charge

Ch. Saitha
Time Table Coordinator

[Signature]
Head of the Department
Dr. R. YADAGIRI RAO
 M.Sc., B.Ed., M.Tech(CSE), Ph.D.
 Head of the Department
 Department of H&S
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X3

BR22

Lab External Questionpaper

Year & Semester: I-I

Branch: ECE

Subject Name: C PROGRAMMING FOR ENGINEERS LABORATORY Faculty Name: B. RAJESHWARI

SET-1

- (a) Write a C program to find the sum of individual digits of a positive integer.
- (b) Write a C program that uses functions to perform Addition of Two Matrices

SET-2

- (a) Write a C program that implements the Selection sort a given list of integers in ascending order
- (b) Write a C program to construct a pyramid of numbers

SET-3

- (a) 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. Write a C program to generate the first n terms of the sequence.
- (b) Write a C program that uses functions to perform Multiplication of Two Matrices

SET-4

- (a) Write a C program to display the contents of a file.
- (b) Write a C program to generate all the prime numbers between 1 and n, where n is a value supplied by the user.

SET-5

- (a) Write a C program to find the GCD (greatest common divisor) of two given integers.
- (b) Write a C program that implements the bubble sort a given list of integers in ascending order

SET-6

- (a) Write a C program to find the roots of a quadratic equation.
- (b) Write a C program that uses functions To insert a sub-string in to a given main string from a given position.

SET-7

- (a) Write a C program that implements the insertion sort a given list of integers in ascending order
- (b) Write a C program to find the sum of individual digits of a positive integer.

SET-8

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)

SET-9

Write C program that use both recursive and non recursive functions to perform Linear search for a Key value in a given list of integers.

SET-10

- (a) Write a C program to find the factorial of a given integer.
- (b) Write a C program that implements the bubble sort a given list of integers in ascending order

SET-11

Write C program that use both recursive and non recursive functions to perform Binary search for a Key value in a given list of integers.

SET-12

- (a) 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. Write a C program to generate the first n terms of the sequence.
- (b) Write a C program that implements the Selection sort a given list of integers in ascending Order

SET-13

- (a) Write a C program that uses functions to perform Addition of Two Matrices
- (b) Write a C program to read in two numbers, x and n, and then compute the sum of this geometric progression: $1+x+x^2+x^3+\dots+x^n$ For example: if n is 3 and x is 5, then the program computes $1+5+25+125$. Print x, n, the sum Perform error checking. For example, the formula does not make sense for negative exponents – if n is less than 0.

SET-14

- (a) Write a C program to find both the largest and smallest number in a list of integers.
- (b) Write a C program that implements the bubble sort a given list of integers in ascending order

SET-15

Write C program that use both recursive and non recursive functions to perform Binary search for a Key value in a given list of integers.

SET-16

- (a) Write a C program to generate Pascal's triangle.
- (b) Write a C program that uses functions to perform Multiplication of Two Matrices

SET-17

- (a) Write a C program to construct a pyramid of numbers
- (b) Write a C program to display the contents of a file.



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PPS Lab External Time Table

Examination Branch

A.Y.: 2022-23

SEM-I

DATE	Day	Branch	Session	HT.No	Total No of Students
10-3-2023	FRIDAY	AI&DS	FN	22X31A7201TO22 X31A7264	64
10-3-2023	FRIDAY	IOT	AN	22X31A6901TO22 X31A6963	63
11-3-2023	SATURDAY	AI&ML-A	FN	22X31A6601TO22 X31A6650	50
11-3-2023	SATURDAY	CS	AN	22X31A6201TO22 X31A6262	62
13-3-2023	MONDAY	DS	FN	22X31A6701TO22 X31A6764	64
13-3-2023	MONDAY	AI&ML-B	AN	22X31A6251TO22 X31A6297	47
14-3-2023	TUESDAY	CSE-A	FN	22X31A0501TO22 X31A0565	65
14-3-2023	TUESDAY	CSE-C	AN	22X31A05D1TO22 X31A05J1	62
15-3-2023	WEDNESDAY	CSE-B	FN	22X31A0566TO22 X31A05D0	61
15-3-2023	WEDNESDAY	ECE & CIVIL	AN	22X31A0401To22X 31A0464 22X31A6101TO22 X31A6103	67


Head of the Department
Department of H&S
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Sheriguda (V) Ibrahimpatnam (M) R.R. Dist-501510


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Sheriguda (V), Ibrahimpatnam
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<https://siiet.ac.in/>

PPS & CPE & CPDS Lab External Time Table with Examiners

DATE	Day	Branch	Session	HT.No	Total No of Students	Internal Examiner	External Examiner
10-3-2023	FRIDAY	AI&DS	FN	22X31A72 01TO22X 31A7264	64	G.BHARGAVI 9985427392 Bhargavi1016@gmail.com	Mr.Srinivas Rao8977377795
10-3-2023	FRIDAY	IOT	AN	22X31A69 01TO22X 31A6963	63	G.BHARGAVI 9985427392 Bhargavi1016@gmail.com	Mr.B.S. Acharya9676 153956
11-3-2023	SATURDAY	AI&ML-A	FN	22X31A66 01TO22X 31A6650	50	T.ARUNA7 207914564 arunasrinivas@gmail.com	Mr.R.Aadil Ahmed 7780808860
11-3-2023	SATURDAY	CS	AN	22X31A62 01TO22X 31A6262	62	B.S.SWAPNASH ANTHI 9985528788 Swapnashanthi45@gmail.com	Ms.Vishalakshi 7032146627
13-3-2023	MONDAY	DS	FN	22X31A67 01TO 22X31A67 64	64	B.S.SWAPNA SHANTHI 9985528788 Swapnashanthi45@gmail.com	DrA Ravi
13-3-2023	MONDAY	AI&ML-B	AN	22X31A62 51TO22X 31A6297	47	T.ARUNA7 207914564 arunasrinivas@gmail.com	DrA Ravi



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14-3-2023	TUESDAY	CSE-A	F N	22X31A05 01TO22X 31A0565	65	S.KIRAN9 704838922 kiransaggurthi c@gmail.com	Mr.CH.Ravindr a 9666205205
14-3-2023	TUESDAY	CSE-C	A N	22X31A05 D1TO22X 31A05J1	61	K.MOUNIKA 9052112672 k.mounika1507 @gmail.com	Ms.K.Sreedevi 8374652679
15-3-2023	WEDNESDAY	CSE-B	F N	22X31A05 66TO22X 31A05D0	65	S.KIRAN9 704838922 kiransaggurthi c@gmail.com	Ms.R.Shashikal a 9618559938
15-3-2023	WEDNESDAY	ECE & CIVIL	AN	22X31A04 01To22X3 1A0464 22X31A61 01TO22X 31A6103	62	K.MOUNIKA 9052112672 k.mounika150 7@gmail.com	Mr.B.Lalu


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Sheriguda(V), Ibrahimpatnam(M), R.R. Dist., Telangana-501510

X3

BR22

Year & Semester: I-I

Branch: ECE

LAB OCCUPANCY CHART

C PROGRAMMING FOR ENGINEERS LABORATORY

	I 9:40- 10:30	II 10:30- 11:20	III 11:20- 12:10	12:10- 12:45	IV 12:45- 1:35	V 1:35- 2:25	V 12:25- 3:15	VII 3:15- 4:00
MON	I BTECH I SEM CSE-A			L U N C H	I BTECH I SEM CSE-C			
TUE	I BTECH I SEM DATA SCIENCE -A				I BTECH I SEM ECE & CIVIL			
WED	I BTECH I SEM AI&ML-B				I BTECH I SEM CSE-B			
THU	I BTECH I SEM AIDS				I BTECH I SEM DS-B & CS			
FRI					I BTECH I SEM AI&ML-A			
SAT					I BTECH I SEM IOT			

Head of the Department
Department of H&S
SRI INDU INSTITUTE OF ENGG & TECH
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Sheriguda(VIII), Ibrahimpatnam
R.R. Dist. Telangana-501 510.



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C PROGRAMMING FOR ENGINEERS LABORATORY

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 Intime, Outtime 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 neighbouring 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.



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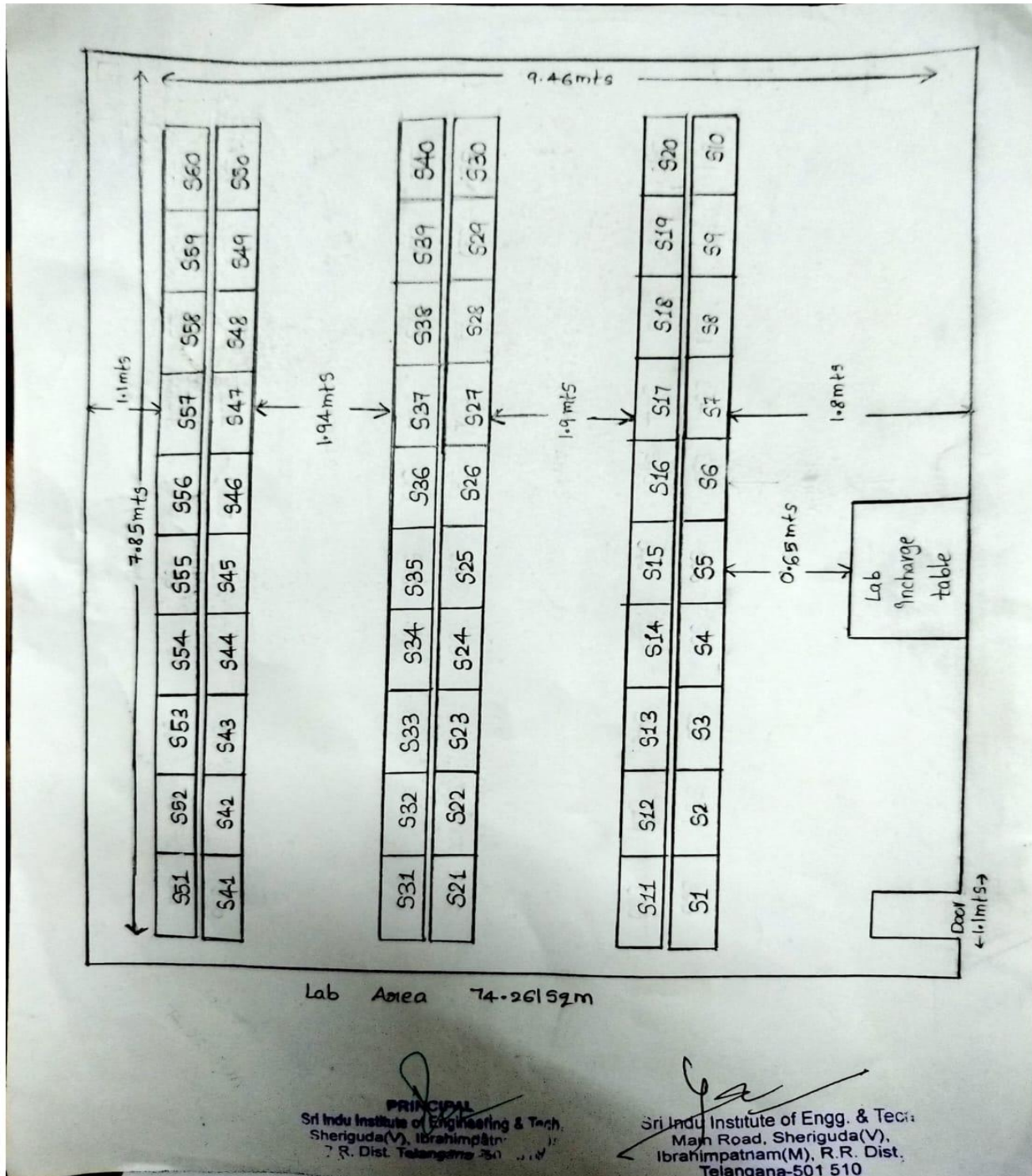
C PROGRAMMING FOR ENGINEERS LABORATORY

PHYSICAL LAB-1 FLOOR PLAN

ROOM NO: D-007

BLOCK: D

GROUND FLOOR





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Lab Manual Link

[https://drive.google.com/file/d/1czFRv5y_XNB0Ws-](https://drive.google.com/file/d/1czFRv5y_XNB0Ws-ujXuZXCnJvxr_zpRG/view?usp=sharing)

[ujXuZXCnJvxr_zpRG/view?usp=sharing](https://drive.google.com/file/d/1czFRv5y_XNB0Ws-ujXuZXCnJvxr_zpRG/view?usp=sharing)



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Humanities and Sciences

Course Outcome Attainment (Internal Examination-1)

Name of the faculty : B.RAJESHWARI Academic Year: 2022-2023
Branch & Section: ECE Examination: I-INTERNA
Lab Course Name: CPE LAB Year/semester I/I

S.No	HT No.	R+O+A	V+V	E+E+R
Max. Marks ==>		10	10	10
1	22X31A0401	10	6	4
2	22X31A0402	10	8	10
3	22X31A0403	10	5	7
4	22X31A0404	10	6	7
5	22X31A0405	10	7	4
6	22X31A0406	10	8	10
7	22X31A0407	10	8	4
8	22X31A0408	10	6	7
9	22X31A0409	10	10	8
10	22X31A0410	10	6	10
11	22X31A0411	10	6	9
12	22X31A0412	10	8	4
13	22X31A0413	10	7	7
14	22X31A0414	10	10	10
15	22X31A0415	10	6	7
16	22X31A0416	10	5	4
17	22X31A0417	10	6	7
18	22X31A0418	10	6	7
19	22X31A0419	10	7	9
20	22X31A0420	10	6	3
21	22X31A0421	10	7	7
22	22X31A0422	10	5	3
23	22X31A0423	10	7	7
24	22X31A0424	10	6	3
25	22X31A0425	10	10	7
26	22X31A0426	10	8	10
27	22X31A0427	10	8	10
28	22X31A0428	10	7	7
29	22X31A0429	10	7	7
30	22X31A0430	10	7	7
31	22X31A0431	10	7	4
32	22X31A0432	10	7	4
33	22X31A0433	10	7	7
34	22X31A0434	10	9	10
35	22X31A0435	10	5	10
36	22X31A0436			
37	22X31A0437			
38	22X31A0438			
39	22X31A0439	10	6	10
40	22X31A0440	10	7	4
41	22X31A0441	10	10	10
42	22X31A0442	10	8	7
43	22X31A0443	10	8	7
44	22X31A0444	10	8	4
45	22X31A0445	10	6	6

46	22X31A0446	10	9	4
47	22X31A0447	10	7	7
48	22X31A0448	10	6	4
49	22X31A0449	10	10	10
50	22X31A0450	10	6	10
51	22X31A0451	10	6	4
52	22X31A0452	10	6	10
53	22X31A0453	10	7	4
54	22X31A0454	10	6	10
55	22X31A0455	10	7	6
56	22X31A0456	10	6	4
57	22X31A0457	10	7	7
58	22X31A0458	10	8	10
59	22X31A0459	10	8	6
60	22X31A0460	10	8	10
61	22X31A0461	10	8	10
62	22X31A0462	10	7	10
63	22X31A0463	10	8	4
64	22X31A0464	10	8	4
Target set by the faculty / HoD		6.00	6.00	6.00
Number of students performed above the target		61	57	42
Number of students attempted		61	61	61
Percentage of students scored more than target		100%	93%	69%

CO Mapping with Exam Questions:

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

CO Attainment based on Exam Questions:

CO - 1	100%	100%	69%
CO - 2	100%	100%	69%
CO - 3	100%	100%	69%
CO - 4			
CO - 5			
CO - 6			

CO	Intrnal practical	E+E+R	Overall	Level
CO-1	100%	69%	84%	3
CO-2	100%	69%	84%	3
CO-3	100%	69%	84%	3
CO-4				
CO-5				
CO-6				

Attainment Level	
1	40%
2	50%
3	60%

Attainment (Internal 1 Examination) =

SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Humanities and Sciences



Course Outcome Attainment (Internal Examination-2)

Name of the faculty :	B.RAJESHWARI	Academic Year:	2022-2023
Branch & Section:	ECE	Examination:	II-INTERNAL
Lab Course Name:	CPE LAB	Year/semester	I/I

S.No	HT No.	R+O+A	V+V	E+E+R	ppt
Max. Marks ==>		10	10	10	10
1	22X31A0401	10	6	6	10
2	22X31A0402	10	7	7	10
3	22X31A0403	10	6	4	10
4	22X31A0404	10	6	5	10
5	22X31A0405	10	7	6	10
6	22X31A0406	10	6	4	10
7	22X31A0407	10	5	4	10
8	22X31A0408	10	6	4	10
9	22X31A0409	10	8	6	10
10	22X31A0410	10	6	6	10
11	22X31A0411	10	5	4	10
12	22X31A0412	10	5	2	10
13	22X31A0413	10	5	4	10
14	22X31A0414	10	6	6	10
15	22X31A0415	10	8	7	10
16	22X31A0416	10	4	4	10
17	22X31A0417	10	4	1	10
18	22X31A0418	10	6	6	10
19	22X31A0419	10	5	5	10
20	22X31A0420	10	5	2	10
21	22X31A0421	10	6	6	10
22	22X31A0422				
23	22X31A0423	10	6	6	10
24	22X31A0424	10	5	2	10
25	22X31A0425	10	4	2	10
26	22X31A0426	10	4	2	10
27	22X31A0427	10	6	4	10
28	22X31A0428	10	5	2	10
29	22X31A0429	10	8	10	10
30	22X31A0430	10	6	2	10
31	22X31A0431	10	5	2	10
32	22X31A0432	10	5	4	10
33	22X31A0433	10	8	7	10
34	22X31A0434	10	5	2	10
35	22X31A0435	10	5	4	10
36	22X31A0436	10	6	4	10
37	22X31A0437	10			10
38	22X31A0438	10	5	2	10
39	22X31A0439	10	5	4	10
40	22X31A0440	10	8	7	10
41	22X31A0441	10	8	6	10
42	22X31A0442	10	7	6	10
43	22X31A0443	10	6	6	10
44	22X31A0444	10	5	6	10
45	22X31A0445	10	8	10	10
46	22X31A0446	10	8	7	10

47	22X31A0447	10	9	10	10
48	22X31A0448	10	5	4	10
49	22X31A0449	10	9	10	10
50	22X31A0450	10	6	4	10
51	22X31A0451	10	8	10	10
52	22X31A0452	10	6	3	10
53	22X31A0453	10	5	10	10
54	22X31A0454	10	6	8	10
55	22X31A0455	10	8	9	10
56	22X31A0456	10	6	6	10
57	22X31A0457	10	8	9	10
58	22X31A0458	10	9	9	10
59	22X31A0459	10	7	8	10
60	22X31A0460	10	9	10	10
61	22X31A0461	10	8	8	10
62	22X31A0462	10	8	9	10
63	22X31A0463	10	6	6	10
64	22X31A0464	10	5	4	10
Target set by the faculty / HoD		6.00	6.00	6.00	6.00
Number of students performed above the target		63	40	33	63
Number of students attempted		63	62	62	63
Percentage of students scored more than target		100%	65%	53%	100%

CO Mapping with Exam Questions:

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

CO Attainment based on Exam Questions:

CO - 1				
CO - 2				
CO - 3				
CO - 4	100%	65%	53%	53%
CO - 5	100%	65%	53%	53%
CO - 6	100%	65%	53%	53%

CO	Intrnal practical	E+E+R	ppt	Overall	Level
CO-1					
CO-2					
CO-3					
CO-4	82%	53%	53%	63%	3
CO-5	82%	53%	53%	63%	3
CO-6	82%	53%	53%	63%	3

Attainment Level	
1	40%
2	50%
3	60%

Attainment (Internal 2 Examination) =

3



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Humanities and Sciences

Course Outcome Attainment (University Examinations)

Name of the faculty : B.RAJESHWARI

Academic Year:

2022-2023

Branch & Section: ECE

Year / Semester:

I/I

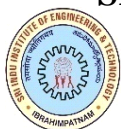
Lab Course Name: CPE LAB

S.No	Roll Number	Marks Secured
1	22X31A0401	46
2	22X31A0402	58
3	22X31A0403	48
4	22X31A0404	48
5	22X31A0405	57
6	22X31A0406	56
7	22X31A0407	48
8	22X31A0408	52
9	22X31A0409	59
10	22X31A0410	58
11	22X31A0411	51
12	22X31A0412	46
13	22X31A0413	53
14	22X31A0414	57
15	22X31A0415	54
16	22X31A0416	47
17	22X31A0417	45
18	22X31A0418	45
19	22X31A0419	58
20	22X31A0420	47
21	22X31A0421	46
22	22X31A0422	A
23	22X31A0423	57
24	22X31A0424	50
25	22X31A0425	48
26	22X31A0426	57
27	22X31A0427	52
28	22X31A0428	55
29	22X31A0429	54
30	22X31A0430	53
31	22X31A0431	45
32	22X31A0432	53
33	22X31A0433	51
34	22X31A0434	57
	MAX MARKS	60

S.No	Roll Number	Marks Secured
35	22X31A0435	45
36	22X31A0436	47
37	22X31A0437	A
38	22X31A0438	48
39	22X31A0439	52
40	22X31A0440	47
41	22X31A0441	57
42	22X31A0442	50
43	22X31A0443	49
44	22X31A0444	46
45	22X31A0445	51
46	22X31A0446	52
47	22X31A0447	50
48	22X31A0448	46
49	22X31A0449	59
50	22X31A0450	48
51	22X31A0451	47
52	22X31A0452	54
53	22X31A0453	59
54	22X31A0454	48
55	22X31A0455	59
56	22X31A0456	45
57	22X31A0457	51
58	22X31A0458	57
59	22X31A0459	56
60	22X31A0460	57
61	22X31A0461	53
62	22X31A0462	51
63	22X31A0463	52
64	22X31A0464	56

Class Average mark	52
Number of students performed above the target	31
Number of successful students	64
Percentage of students scored more than target	48%
Attainment level	2

Attainment Level	% students
1	40%
2	50%
3	60%



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Humanities and Sciences

Course Outcome Attainment

Name of the faculty : B.RAJESHWARI

Academic Year: 2022-2023

Branch & Section: ECE

Year / Semester: I/I

Lab Course Name: CPE LAB

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam	University Exam	Attainment Level
CO1	3.00		3.00	2.00	2.40
CO2	3.00		3.00	2.00	2.40
CO3	3.00		3.00	2.00	2.40
CO4		3.00	3.00	2.00	2.40
CO5		3.00	3.00	2.00	2.40
CO6		3.00	3.00	2.00	2.40
Internal & University Attainment:			3.00	2.00	
Weightage			40%	60%	
CO Attainment for the course (Internal, University)			1.20	1.20	
CO Attainment for the course (Direct Method)			2.40		

Overall course attainment level

2.40



SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY

Department of Humanities and Sciences Program Outcome Attainment (from Course)

Name of Faculty: B.RAJESHWARI
 Branch & Section: ECE
 Course Name: CPE LAB

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

CO-PO mapping

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C119.1	3	2	1	1	1	1			1		1	1	2	2
C119.2	3	2	3	2	1	2			1		1	1	3	3
C119.3	3	3	2	1	1	2			1		1	1	2	
C119.4	3	3	3	2	1	1			1		1			
C119.5	3	2	2								2			
C119.6	2	2	2	2	1								3	
C119	2.83	2.33	2.17	1.60	1.00	1.50			1.00		1.20	1.00	2.50	2.50

CO	Course Outcome Attainment
CO1	2.40
CO2	2.40
CO3	2.40
CO4	2.40
CO5	2.40
CO6	2.40
Overall course attainment level	2.40

PO-ATTAINMENT

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO Attainment	2.27	1.87	1.73	1.28	0.80	1.20			0.80		0.96	0.80	2.00	2.00

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