



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

### Python Programming lab

Course Code – CS201ES

I B.Tech II-SEMESTER

A.Y.: 2022-2023

Prepared by

**Mrs. B RAJASHWARI**

Assistant Professor

  
Head of the Department  
Department of H&S  
SRI INDU INSTITUTE OF ENGG & TECH  
Sheriguda(VII), Ibrahimpatnam (M) R.R. Dist-501510

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



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<b>Name of the Physical laboratory:</b>	PYTHON PROGRAMMING LABORATORY
<b>Course code</b>	CS201ES
<b>Room No</b>	D-007
<b>Name of the lab incharge</b>	Mrs L.SARITHA
<b>Name of the faculty incharge</b>	Mrs. B RAJASHWARI, Assistant Professor

## Index of Lab File

<b>S. No.</b>	<b>Name of the content</b>
1	Institute vision and mission
2	POs /PSOs
3	Programme outcomes
4	Course Syllabus with Structure
5	Course Outcomes (CO) and CO-PO mapping
6	List of experiments and their CO, PO mapping
7	Time table
8	Model Practical End examination questions
9	Schedule of end practical examinations
10	List of examiners
11	Lab occupancy chart
12	Dos and Don'ts
13	Physical lab floor plan with area in Sq.m
14	Lab manual
15	CO-PO Attainments



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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 centre 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

### PROGRAM EDUCATIONAL OBJECTIVES

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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# SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

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

Website: <https://siiet.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.

  
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## SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

### B.Tech. in COMPUTER SCIENCE AND ENGINEERING

#### COURSE STRUCTURE

#### I YEAR SYLLABUS (BR22 Regulations)

Applicable from Academic Year: 2022-23 Batch

#### I Year II Semester

S. No.	Course Code	Course	L	T	P	Credits
1.	MA201BS	Ordinary Differential Equations and Vector Calculus	3	1	0	4
2.	AP202BS	Applied Physics	3	1	0	4
3.	ME202ES	Engineering Workshop	0	1	3	2.5
4.	EN204HS	English for Skill Enhancement	2	0	0	2
5.	EC201ES	Electronic Devices and Circuits	2	0	0	2
6.	AP205BS	Applied Physics Laboratory	0	0	3	1.5
7.	CS201ES	Python Programming Laboratory	0	1	2	2
8.	EN207HS	English Language and Communication Skills Laboratory	0	0	2	1
9.	CS203ES	IT Workshop	0	0	2	1
10.	*MC201ES	Environmental Science	3	0	0	0
		<b>Total</b>	<b>13</b>	<b>4</b>	<b>12</b>	<b>20</b>



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## PYTHON PROGRAMMING LABORATORY

(Course Code: CS201ES)

B.Tech. I Year II Sem.

L T P C

0 1 2 2

### Course Objectives:

- To install and run the Python interpreter
- To learn control structures.
- To Understand Lists, Dictionaries in python
- To Handle Strings and Files in Python

**Course Outcomes:** After completion of the course, the student should be able to

- Develop the application specific codes using python.
- Understand Strings, Lists, Tuples and Dictionaries in Python
- Verify programs using modular approach, file I/O, Python standard library
- Implement Digital Systems using Python

Note: The lab experiments will be like the following experiment examples

### Week -1:

1. i) Use a web browser to go to the Python website <http://python.org>. This page contains information about Python and links to Python-related pages, and it gives you the ability to search the Python documentation.  
ii) Start the Python interpreter and type `help()` to start the online help utility.
2. Start a Python interpreter and use it as a Calculator.
3.
  - i) write a program to calculate compound interest when principal, rate and number of periods are given.
  - ii) Given coordinates  $(x_1, y_1)$ ,  $(x_2, y_2)$  find the distance between two points

4. Read name, address, email and phone number of a person through keyboard and print the details.

### **Week - 2:**

1. Print the below triangle using for loop.

```
5
4 4
3 3 3
2 2 2 2
1 1 1 1 1
```

2. Write a program to check whether the given input is digit or lowercase character or uppercase character or a special character (use 'if-else-if' ladder)
3. Python Program to Print the Fibonacci sequence using while loop
4. Python program to print all prime numbers in a given interval (use break)

### **Week - 3:**

1. i) Write a program to convert a list and tuple into arrays.  
ii) Write a program to find common values between two arrays.
2. Write a function called gcd that takes parameters a and b and returns their greatest common divisor.
3. Write a function called palindrome that takes a string argument and returns True if it is a palindrome and False otherwise. Remember that you can use the built-in function len to check the length of a string.

### **Week - 4:**

1. Write a function called is\_sorted that takes a list as a parameter and returns True if the list is sorted in ascending order and False otherwise.
2. Write a function called has\_duplicates that takes a list and returns True if there is any element that appears more than once. It should not modify the original list.
  - i). Write a function called remove\_duplicates that takes a list and returns a new list with only the unique elements from the original. Hint: they don't have to be in the same order.
  - ii). The wordlist I provided, words.txt, doesn't contain single letter words. So you might want to add "I", "a", and the empty string.
  - iii). Write a python code to read dictionary values from the user. Construct a function to invert its content. i.e., keys should be values and values should be keys.
3. i) Add a comma between the characters. If the given word is 'Apple', it should become 'A,p,p,l,e'  
ii) Remove the given word in all the places in a string?  
iii) Write a function that takes a sentence as an input parameter and replaces the first letter of every word with the corresponding upper case letter and the rest of the letters in the word by corresponding letters in lower case without using a built-in function?
4. Write a recursive function that generates all binary strings of n-bit length



## Week - 5:

- i) Write a python program that defines a matrix and prints
  - ii) Write a python program to perform addition of two square matrices
  - iii) Write a python program to perform multiplication of two square matrices
2. How do you make a module? Give an example of construction of a module using different geometrical shapes and operations on them as its functions.
3. Use the structure of exception handling all general purpose exceptions.

## Week-6:

1. a. Write a function called `draw_rectangle` that takes a Canvas and a Rectangle as arguments and draws a representation of the Rectangle on the Canvas.
  - b. Add an attribute named `color` to your Rectangle objects and modify `draw_rectangleso` that it uses the `color` attribute as the fill color.
  - c. Write a function called `draw_point` that takes a Canvas and a Point as arguments and draws are presentation of the Point on the Canvas.
  - d. Define a new class called Circle with appropriate attributes and instantiate a few Circle objects. Write a function called `draw_circle` that draws circles on the canvas.
2. Write a Python program to demonstrate the usage of Method Resolution Order (MRO) in multiple levels of Inheritances.
3. Write a python code to read a phone number and email-id from the user and validate it for correctness.

## Week- 7

1. Write a Python code to merge two given file contents into a third file.
2. Write a Python code to open a given file and construct a function to check for given words present in it and display on found.
3. Write a Python code to Read text from a text file, find the word with most number of occurrences
4. Write a function that reads a file *file1* and displays the number of words, number of vowels, blankspaces, lower case letters and uppercase letters.

## Week - 8:

1. Import numpy, Plotpy and Scipy and explore their functionalities.
2. a) Install NumPy package with pip and explore it.
3. Write a program to implement Digital Logic Gates – AND, OR, NOT, EX-OR
4. Write a program to implement Half Adder, Full Adder, and Parallel Adder
5. Write a GUI program to create a window wizard having two text labels, two text fields and two buttons as Submit and Reset.

**TEXT BOOKS:**

1. Supercharged Python: Take your code to the next level, Overland
2. Learning Python, Mark Lutz, O'reilly

**REFERENCE BOOKS:**

1. Python Programming: A Modern Approach, Vamsi Kurama, Pearson
2. Python Programming A Modular Approach with Graphics, Database, Mobile, and WebApplications, Sheetal Taneja, Naveen Kumar, Pearson
3. Programming with Python, A User's Book, Michael Dawson, Cengage Learning, India Edition
4. Think Python, Allen Downey, Green Tea Press
5. Core Python Programming, W. Chun, Pearson
6. Introduction to Python, Kenneth A. Lambert, Cengage.



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## COURSE OUTCOMES

### Course Name: PYTHON PROGRAMMING LABORATORY(C127)

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

CO No	DESCRIPTION
C127.1	Develop the application specific codes using python. (Applying)
C127.2	Understand Strings, Lists, Tuples and Dictionaries in Python. (Understanding)
C127.3	Understand Functions in Python. (Understanding)
C127.4	Evaluate programs using modular approach , MRO,Exception Handling.( Evaluating)
C127.5	Evaluate programs using Python standard library, file I/O. ( Evaluating)
C127.6	Construct Digital Systems using Python.(Creating)

## COs and POs & PSOs Mapping

PO/PSO/ CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C127.1	3	2	-	1	-	-	-	-	-	-	-	1	2	3
C127.2	3	-	-	1	2	-	-	-	-	-	-	1	-	2
C127.3	3	2	-	1	-	-	-	-	2	-	2	1	1	-
C127.4	-	3	-	1	2	-	-	-	-	-	-	1	-	-
C127.5	-	3	-	1	-	-	-	-	-	-	-	1	1	1
C127.6	-	-	3	1	2	-	-	-	2	-	2	1	2	1
C127	3	2.5	3	1	2	-	-	-	2	-	2	1	1.5	1.7

3-High

2-Medium

1-Low



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## LIST OF EXPERIMENTS AND THEIR CO, PO MAPPING

S. No	Name of The Experiment	CO	PO
1	<p>1. i) Use a web browser to go to the Python website <a href="http://python.org">http://python.org</a>. This page contains information about Python and links to Python-related pages, and it gives</p> <p>ii) Start the Python interpreter and type help() to start the online help utility.</p> <p>2. Start a Python interpreter and use it as a Calculator.</p> <p>3. i) write a program to calculate compound interest when principal, rate and number of periods are given.</p> <p>ii) Given coordinates (x1, y1), (x2, y2) find the distance between two points</p> <p>4. Read name, address, email and phone number of a person through keyboard and print the details.</p>	CO1	PO1,PO2,PO4,PO12,PSO1,PSO2
2	<p>1. Print the below triangle using for loop.</p> <pre>5 4 4 3 3 3 2 2 2 2 1 1 1 1 1</pre> <p>2. Write a program to check whether the given input is digit or lowercase character or uppercase character or a special character (use 'if-else-if' ladder)</p> <p>3. Python Program to Print the Fibonacci sequence using while loop</p> <p>4. Python program to print all prime numbers in a given interval (use break)</p>	CO1	PO1,PO2,PO4,PO12,PSO1,PSO2
3	<p>1. i) Write a program to convert a list and tuple into arrays.</p>	CO2,CO3	PO1,PO2,PO4,

	<p>ii) Write a program to find common values between two arrays.</p> <p>2. Write a function called gcd that takes parameters a and b and returns their greatest common divisor.</p> <p>3. Write a function called palindrome that takes a string argument and returns True if it is a palindrome and False otherwise. Remember that you can use the built-in function len to check the length of a string.</p>		<b>PO5,PO9,PO11,PO12,PSO1,PSO2</b>
<b>4</b>	<p>1. Write a function called is_sorted that takes a list as a parameter and returns True if the list is sorted in ascending order and False otherwise.</p> <p>2. Write a function called has_duplicates that takes a list and returns True if there is any element that appears more than once. It should not modify the original list.</p> <p>i). Write a function called remove_duplicates that takes a list and returns a new list with only the unique elements from the original. Hint: they don't have to be in the same order.</p> <p>ii). The wordlist I provided, words.txt, doesn't contain single letter words. So you might want to add "I", "a", and the empty string.</p> <p>iii). Write a python code to read dictionary values from the user. Construct a function to invert its content. i.e., keys should be values and values should be keys.</p> <p>3. i) Add a comma between the characters. If the given word is 'Apple', it should become 'A,p,p,l,e'</p> <p>ii) Remove the given word in all the places in a string?</p> <p>iii) Write a function that takes a sentence as an input parameter and replaces the first letter of every word with the corresponding upper case letter and the rest of the letters in the word by corresponding letters in lower case without using a built-in function?</p> <p>4. Writes a recursive function that generates all binary strings of n-bit length</p>	<b>CO2,CO3</b>	<b>PO1,PO2,PO4,PO5,PO9,PO11,PO12,PSO1PSO2</b>
<b>5</b>	<p>1. i) Write a python program that defines a matrix and prints</p> <p>ii) Write a python program to perform addition of two square matrices</p> <p>iii) Write a python program to perform multiplication of two square matrices</p> <p>2. How do you make a module? Give an example of construction of a module using different geometrical shapes and operations on them as its functions.</p> <p>3. Use the structure of exception handling all general purpose exceptions.</p>	<b>CO4, CO5</b>	<b>PO2,PO4,PO5,PO12,PSO1,PSO2</b>
<b>6</b>	<p>1. a. Write a function called draw_rectangle that takes a Canvas and a Rectangle as arguments and draws a representation of the Rectangle on the Canvas.</p> <p>b. Add an attribute named color to your Rectangle objects and modify draw_rectangle so that it uses the color attribute as the fill color.</p> <p>c. Write a function called draw_point that takes a Canvas and a Point as arguments and draws a representation of the Point on the Canvas.</p>	<b>CO2,CO5</b>	<b>PO1,PO2,PO4,PO5,PO12,PSO1,PSO2</b>



	<p>d. Define a new class called Circle with appropriate attributes and instantiate a few Circle objects. Write a function called draw_circle that draws circles on the</p> <p>2. Write a Python program to demonstrate the usage of Method Resolution Order (MRO) in multiple levels of Inheritances.</p> <p>3. Write a python code to read a phone number and email-id from the user and validate it for correctness.</p>		
7	<p>1. Write a Python code to merge two given file contents into a third file.</p> <p>2. Write a Python code to open a given file and construct a function to check for given words present in it and display on found.</p> <p>3. Write a Python code to Read text from a text file, find the word with most number of occurrences</p>	CO2,CO5	PO1,PO2,PO4,PO5,PO12,PSO1,PSO2
8	<p>1. Import numpy, Plotpy and Scipy and explore their functionalities.</p> <p>2. a) Install NumPy package with pip and explore it.</p> <p>3. Write a program to implement Digital Logic Gates – AND, OR, NOT, EX-OR</p> <p>4. Write a program to implement Half Adder, Full Adder, and Parallel Adder</p> <p>5. Write a GUI program to create a window wizard having two text labels, two text fields and two buttons as Submit and Reset.</p>	CO2,CO4,CO6	PO1, PO2,PO3,PO4,PO5,PO9,PO11,PO12,PSO1,PSO2



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**Class: CSE-C**

**Semester: II**

**W.E.F-03-04-2023**

**LH:-D-109**

	<b>I</b> 9:40- 10:30	<b>II</b> 10:30 - 11:20	<b>III</b> 11:20- 12:10	<b>12:10- 12.45</b>	<b>IV</b> 12.45- 1.35	<b>V</b> 1.35-2.25	<b>VI</b> 2.25- 3.15	<b>VII</b> 3.15-4.00
<b>MON</b>	AP/ELCS LAB			<b>L U N C H</b>	EDC	ENG	AP	EWS(T)/ PYTHON LAB(T)
<b>TUE</b>	PYTHON LAB				ODE	EDC	ENG	AP(T) /ODE(T)
<b>WED</b>	AP	ODE	EDC		AP/ELCS LAB			PYTHON LAB(T)/ EWS(T)
<b>THU</b>	EDC	ENG	AP		AP	ES	ODE	ODE(T)/AP(T)
<b>FRI</b>	ENG	EDC	ODE		ITWS/EWS LAB			ES
<b>SAT</b>	ITWS/EWS LAB				ODE	ES	AP	LIBRARY

Course Code	Course Name	Name of the Faculty	Course Code	Course Name	Name of the Faculty
MA201BS	ODE-Ordinary Differential Equations & Vector Calculus	T.THIRUPATHI REDDY	AP205BS	APLAB-Applied Physics Laboratory	B.SANTHI/M.JANAIAH/ P.SRINIVASA CHARY/M.MANISHA
AP202BS	AP-Applied Physics	B.SANTHI	CS201ES	Python Programming Laboratory	B.RAJASHWARI/D.SW APNA
EN204HS	ENG- English for Skill Enhancement	K.LAKSHMI SHILPA	EN207HS	ELCS LAB-English Language and Communication Skills Laboratory	K.LAKSHMI SHILPA/E.PRARTHAN A
EC201ES	EDC-Electronics Devices and Circuits	P.RAJENDRA	CS203ES	ITWS-IT Workshop	K.UMAVYSHNAVI/B.R AJITHA
ME202ES	EWS-Engineering Workshop	B.SRINU NAIK/A.MALLESH	MC201ES	ES-Environmental Science	O.SUBHASHINI

*Sant*  
**Class In-Charge**

*Santhi*  
**Time Table Coordinator**

*[Signature]*  
**Head of The Department**



Sri Indu Institute of Engg. & Tech  
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Sheriguda(V), Ibrahimpatnam(M), R.R Dist., Telangana – 501 510

**X3**

**BR22**

## Python Programming Lab

Year & Semester: I yr II sem

Branch: CSE-C

Subject Name: **Python Programming Lab**

Faculty Name: B RAJASHWARI

### Python Programming Lab External

#### SET-1

1. i) Write a python program that defines a matrix and prints  
ii) Write a python program to perform addition of two square matrices  
iii) Write a python program to perform multiplication of two square matrices
2. How do you make a module? Give an example of construction of a module using different geometrical shapes and operations on them as its functions.

#### SET-2

1. Use the structure of exception handling all general purpose exceptions.
2. Write a function called draw\_rectangle that takes a Canvas and a Rectangle as arguments and draws a representation of the Rectangle on the Canvas.

#### SET-3

1. Add an attribute named color to your Rectangle objects and modify draw\_rectangle so that it uses the color attribute as the fill color.
2. Write a function called draw\_point that takes a Canvas and a Point as arguments and draws a representation of the Point on the Canvas.

#### SET-4

1. Define a new class called Circle with appropriate attributes and instantiate a few Circle objects. Write a function called draw\_circle that draws circles on the canvas.
2. Write a Python program to demonstrate the usage of Method Resolution Order (MRO) in multiple levels of Inheritances.

#### SET-5

1. Write a python code to read a phone number and email-id from the user and validate it for correctness.
2. Write a Python code to merge two given file contents into a third file.

#### SET-6

1. Write a Python code to open a given file and construct a function to check for given words present and display on found.
2. Write a Python code to Read text from a text file, find the word with most number of occurrences

### SET-7

1. Write a function that reads a file *file1* and displays the number of words, number of vowels, blankspaces, lower case letters and uppercase letters.
2. Import numpy, Plotpy and Scipy and explore their functionalities.
3. a) Install NumPy package with pip and explore it.

### SET-8

1. Write a program to implement Digital Logic Gates – AND, OR, NOT, EX-OR
2. Write a GUI program to create a window wizard having two text labels, two text fields and two buttons as Submit and Reset.

### SET 9

1. Start a Python interpreter and use it as a Calculator.
2.
  - i) Write a program to calculate compound interest when principal, rate and number of periods are given.
  - ii) Given coordinates (x1, y1), (x2, y2) find the distance between two points
  - iii) Read name, address, email and phone number of a person through keyboard and print the details.

### SET 10

1. Print the below triangle using for loop.  
4 4  
3 3 3  
2 2 2 2  
1 1 1 1 1
2. Write a program to check whether the given input is digit or lowercase character or uppercase character or a special character (use 'if-else-if' ladder)
3. Python Program to Print the Fibonacci sequence using while loop

### SET 11:

1. Python program to print all prime numbers in a given interval (use break)
- 2.i) Write a program to convert a list and tuple into arrays.  
ii) Write a program to find common values between two arrays.
3. Write a function called gcd that takes parameters a and b and returns their greatest common divisor.

### SET 12:

1. Write a function called `palindrome` that takes a string argument and returns `True` if it is a palindrome and `False` otherwise. Remember that you can use the built-in function `len` to check the length of a string.
2. Write a function called `is_sorted` that takes a list as a parameter and returns `True` if the list is sorted in ascending order and `False` otherwise.
3. Write a function called `has_duplicates` that takes a list and returns `True` if there is any element that appears more than once. It should not modify the original list.
  - i). Write a function called `remove_duplicates` that takes a list and returns a new list with only the unique elements from the original. Hint: they don't have to be in the same order.
  - ii). The wordlist I provided, `words.txt`, doesn't contain single letter words. So you might want to add "I", "a", and the empty string.
  - iii). Write a python code to read dictionary values from the user. Construct a function to invert its content. i.e., keys should be values and values should be keys.

**SET 13:**

- 1
  - i) Add a comma between the characters. If the given word is 'Apple', it should become 'A,p,p,l,e'
  - ii) Remove the given word in all the places in a string?
  - iii) Write a function that takes a sentence as an input parameter and replaces the first letter of every word with the corresponding upper case letter and the rest of the letters in the word by corresponding letters in lower case without using a built-in function?
2. Write a recursive function that generates all binary strings of n-bit length



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

## Examination Branch

A.Y. : 2022-23

SEM-II

DATE	Day	Branch	Session	HT.No	Total No of Students
19-08-2023	SATURDAY	CSE-B	FN	22X31A0566 TO 22X31A05D0	65
21-08-2023	MONDAY	CYBER SECURITY	FN	22X31A6201 TO 22X31A6262	62
21-08-2023	MONDAY	AI&ML-A	AN	22X31A6601 TO 22X31A6650	50
22-08-2023	TUESDAY	DS	FN	22X31A6701 TO 22X31A6764	64
22-08-2023	TUESDAY	AI&DS	AN	22X31A7201 TO 22X31A7264	64
23-08-2023	WEDNESDAY	CSE-A	FN	22X31A0501 TO 22X31A0565	65
23-08-2023	WEDNESDAY	CIVIL	AN	22X31A0101 TO 22X31A0103	02
24-08-2023	THURSDAY	CSE-C	FN	22X31A05D1 TO 22X31A05J1	61
24-08-2023	THURSDAY	AI&ML-B	AN	22X31A6651 TO 22X31A6697	47

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

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



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

## PYTHON Programming Lab External Time Table Examination Branch

A.Y. : 2022-23

SEM-II

DATE	Day	Branch	Session	HT.No	Total No of Students	Remarks	
						Internal Examiner	External Examiner
19-08-2023	SATURDAY	CSE-B	FN	22X31A0566 TO 22X31A05D0	65	D Swapna	Md. Sirajul Huq
21-08-2023	MONDAY	CYBER SECURITY	FN	22X31A6201 TO 22X31A6262	62	P.BALU	Chandra Shekar
21-08-2023	MONDAY	AI&ML-A	AN	22X31A6601 TO 22X31A6650	50	M.TEJASWI	Chandra Shekar
22-08-2023	TUESDAY	DS	FN	22X31A6701 TO 22X31A6764	64	P.BALU	Swapna G
22-08-2023	TUESDAY	AI&DS	AN	22X31A7201 TO 22X31A7264	64	M.TEJASWI	Swapna G
23-08-2023	WEDNESDAY	CSE-A	FN	22X31A0501 TO 22X31A0565	65	D Swapna	A Sunitha
23-08-2023	WEDNESDAY	CIVIL	AN	22X31A0101 TO 22X31A0103	02	B.RAJASHWARI	A Sunitha
24-08-2023	THURSDAY	CSE-C	FN	22X31A05D1 TO 22X31A0511	61	B.RAJASHWARI	K.Sreedevi
24-08-2023	THURSDAY	AI&ML-B	AN	22X31A6651 TO 22X31A6697	47	M.TEJASWI	Chaitanya Bharathi
25-08-2023	FRIDAY	IOT	FN	22X31A6901 TO 22X31A6963	63	P.BALU	S.Shiva shankar

FN : 9.40 am to 12.25 pm

AN : 1.00 pm to 4.00 pm

HOD

Sri Indu Institute of Engg & Tech  
Main Road, Sheriguda(V),  
Ibrahimpatnam(M), R.R. Dist.,  
Telangana - 501 510

EXAM BRANCH

PRINCIPAL

Sri Indu Institute of Engineering & Tech,  
Sheriguda(V), Ibrahimpatnam(M),  
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Website: <https://siiet.ac.in/>

## TIME TABLE FOR A.Y 2022-23 LAB OCCUPANCY CHART

### PYTHON PROGRAMMING LAB

Class: I-B.Tech CSE-C

Semester: II

LH. NO: D-007

W.E.F:03-04-2023

Period/ Day	1	2	3	12: 10- 12: 45	4	5	6	7
	9:40- 10:30	10:30- 11:20	11:20- 12:10		12:45- 1:30	1:30-2:20	2:20-3:10	3:10-4:00
Monday	I-II DS –PYTHON LAB			L U N C H	I-II CSE-CYBER –PYTHON LAB			
Tuesday	I-II CSE-C –PYTHON LAB				I-II AI&ML -A–PYTHON LAB			
Wednesday	I-II AI&ML -B –PYTHON LAB				I-II CSE-A –PYTHON LAB			
Thursday	I-II ECE –PYTHON LAB				LAB MAINTENANCE			
Friday	I-II CSE-B –PYTHON LAB				I-II CSE-IOT –PYTHON LAB			
Saturday	LAB MAINTENANCE				I-II AI&DS –PYTHON LAB			

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

  
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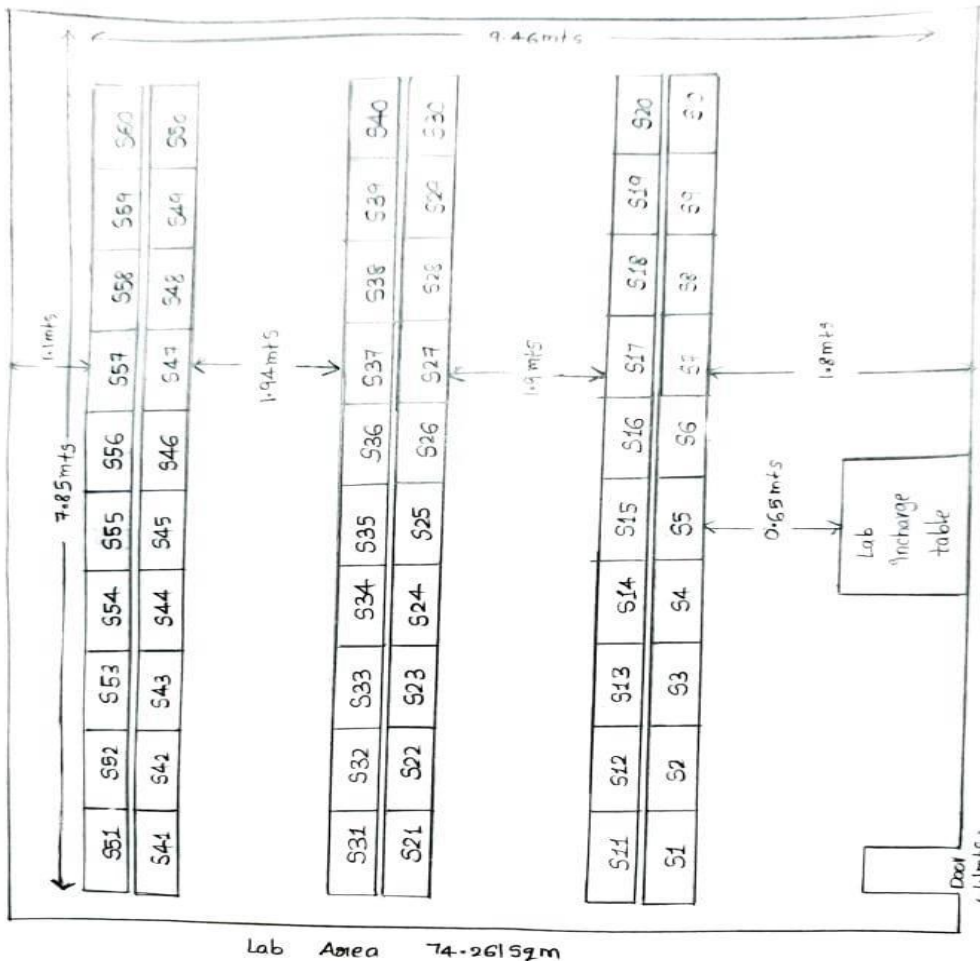
## PYTHON PROGRAMMING LAB

### PHYSICAL LAB-12 FLOOR PLAN


**ROOM NO: D-007**

**BLOCK:D**

**FLOOR:GROUND FLOOR**



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

  
 Sri Indu Institute of Engg. & Tech.  
 Main Road, Sheriguda(V),  
 Ibrahimpatnam(M), R. R. Dist.  
 Telangana-501 510



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

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## **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 lab.
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 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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Website: <https://siiet.ac.in/>

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**Lab manual link:**

<https://drive.google.com/file/d/1ZAv1g7UzRzYoDoZrAqmvDoqRKzSnJvOr/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 RAJASHWARI	Academic Year:	2022-23
Branch & Section:	CSE-C	Examination:	INTERNAL
Lab Course Name:	PYTHON PROGRAMMING	Year/semester	I -II SEM

S.No	HT No.	R+O+A	V+V	E+E+R
<b>Max. Marks ==&gt;</b>		<b>10</b>	<b>10</b>	<b>10</b>
1	22X31A05D1	8	8	9
2	22X31A05D2	10	8	9
3	22X31A05D3	10	8	9
4	22X31A05D4	10	8	9
5	22X31A05D5	10	8	10
6	22X31A05D6	10	8	9
7	22X31A05D7	9	8	7
8	22X31A05D8	10	8	9
9	22X31A05D9	9	8	8
10	22X31A05E0	10	8	9
11	22X31A05E1	10	8	10
12	22X31A05E2	7	8	8
13	22X31A05E3	AB	AB	AB
14	22X31A05E4	7	8	8
15	22X31A05E5	10	8	9
16	22X31A05E6	8	8	8
17	22X31A05E7	8	8	9
18	22X31A05E8	10	8	9
19	22X31A05E9	10	8	8
20	22X31A05F0	10	8	8
21	22X31A05F1	10	9	10
22	22X31A05F2	10	8	10
23	22X31A05F3	8	8	9
24	22X31A05F5	8	8	10
25	22X31A05F6	10	9	10
26	22X31A05F7	8	8	7
27	22X31A05F8	8	8	8
28	22X31A05F9	8	8	8
29	22X31A05G0	10	8	8
30	22X31A05G1	9	8	10
31	22X31A05G2	10	8	9
32	22X31A05G3	10	8	10
33	22X31A05G4	8	8	8
34	22X31A05G5	8	8	8



**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	98%	98%	98%
CO - 2	98%	98%	98%
CO - 3	98%	98%	98%
CO - 4			
CO - 5			
CO - 6			

CO	Intrnal practical	E+E+R	OverallI	Level
CO-1	98%	98%	98%	3
CO-2	98%	98%	98%	3
CO-3	98%	98%	98%	3
CO-4				
CO-5				
CO-6				

Attainment Level	
1	60%
2	70%
3	>80%

Attainment (Internal 1 Examination) = 3

# SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Humanities and Sciences



## Course Outcome Attainment (Internal Examination-2)

Name of the faculty :

B RAJASHWARI

Academic Year: 2022-23

Branch & Section:

CSE-C

Examination: LAB INTERNAL

Lab Course Name:

PYTHON PROGRAMMING

Year/semester I -II SEM

S.No	HT No.	R+O+A	V+V	E+E+R	ppt
<b>Max. Marks ==&gt;</b>		<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>
1	22X31A05D1	7	8	5	10
2	22X31A05D2	7	6	7	10
3	22X31A05D3	10	8	10	10
4	22X31A05D4	9	8	8	10
5	22X31A05D5	9	8	9	10
6	22X31A05D6	10	8	10	9
7	22X31A05D7	10	8	10	10
8	22X31A05D8	9	8	7	10
9	22X31A05D9	10	8	9	10
10	22X31A05E0	10	8	10	10
11	22X31A05E1	9	8	10	10
12	22X31A05E2	9	7	8	10
13	22X31A05E3	9	7	8	10
14	22X31A05E4	9	8	8	10
15	22X31A05E5	9	8	8	10
16	22X31A05E6	9	7	8	10
17	22X31A05E7	9	8	9	10
18	22X31A05E8	10	8	10	10
19	22X31A05E9	10	7	8	10
20	22X31A05F0	9	7	8	10
21	22X31A05F1	10	8	10	10
22	22X31A05F2	9	8	10	10
23	22X31A05F3	9	7	8	10
24	22X31A05F5	9	7	10	10
25	22X31A05F6	10	8	10	10
26	22X31A05F7	9	7	8	10
27	22X31A05F8	9	7	5	10
28	22X31A05F9	9	7	6	10
29	22X31A05G0	10	8	9	10
30	22X31A05G1	10	8	10	10
31	22X31A05G2	9	8	7	10
32	22X31A05G3	10	7	10	10
33	22X31A05G4	9	8	8	10
34	22X31A05G5	9	7	8	10
35	22X31A05G7	10	8	8	10
36	22X31A05G8	9	8	9	10
37	22X31A05G9	9	7	8	10



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%	98%	91%	91%
CO - 5	100%	98%	91%	91%
CO - 6	100%	98%	91%	91%

CO	Intrnal practical	E+E+R	ppt	OverallI	Level
CO-1					
CO-2					
CO-3					
CO-4	99%	91%	91%	94%	3
CO-5	99%	91%	91%	94%	3
CO-6	99%	91%	91%	94%	3

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 RAJASHWARI  
Branch & Section: CSE-C  
Lab Course Name: PYTHON PROGRAMMING

Academic Year: 2022-23  
Year / Semester: I -II SEM

S.No	Roll Number	Marks Secured
1	22X31A05D1	46
2	22X31A05D2	50
3	22X31A05D3	52
4	22X31A05D4	46
5	22X31A05D5	46
6	22X31A05D6	50
7	22X31A05D7	42
8	22X31A05D8	54
9	22X31A05D9	50
10	22X31A05E0	50
11	22X31A05E1	54
12	22X31A05E2	46
13	22X31A05E3	A
14	22X31A05E4	44
15	22X31A05E5	48
16	22X31A05E6	40
17	22X31A05E7	46
18	22X31A05E8	50
19	22X31A05E9	52
20	22X31A05F0	49
21	22X31A05F1	46
22	22X31A05F2	50
23	22X31A05F3	46
24	22X31A05F5	57
25	22X31A05F6	50
26	22X31A05F7	41
27	22X31A05F8	43
28	22X31A05F9	47
29	22X31A05G0	47
30	22X31A05G1	52
31	22X31A05G2	47
32	22X31A05G3	56
33	22X31A05G4	51
34	22X31A05G5	42

S.No	Roll Number	Marks Secured
35	22X31A05G7	50
36	22X31A05G8	44
37	22X31A05G9	50
38	22X31A05H0	49
39	22X31A05H1	44
40	22X31A05H2	42
41	22X31A05H3	47
42	22X31A05H4	44
43	22X31A05H5	47
44	22X31A05H6	52
45	22X31A05H7	48
46	22X31A05H8	40
47	22X31A05H9	44
48	22X31A05I0	48
49	22X31A05I1	57
50	22X31A05I2	44
51	22X31A05I3	45
52	22X31A05I4	47
53	22X31A05I5	40
54	22X31A05I7	46
55	22X31A05I8	48
56	22X31A05I9	44
57	22X31A05J0	46
58	22X31A05J1	44
59		
60		
61		
62		
63		
64		
65		

Class Average mark		47
Number of students performed above the target		25
Number of successful students		58
Percentage of students scored more than target		43%
<b>Attainment level</b>		<b>1</b>

<b>Attainment Level</b>	<b>% students</b>
1	60%
2	70%
3	>80%

# SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY



Department of Humanities and Sciences

## Course Outcome Attainment

Name of the faculty : B RAJASHWARI  
Branch & Section: CSE-C  
Lab Course Name: PYTHON PROGRAMMING

Academic Year: 2022-23  
Year / Semester: I -II SEM

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam	University Exam	Attainment Level
CO1	3.00		3.00	1.00	2.40
CO2	3.00		3.00	1.00	2.40
CO3	3.00		3.00	1.00	2.40
CO4		3.00	3.00	1.00	2.40
CO5		3.00	3.00	1.00	2.40
CO6		3.00	3.00	1.00	2.40
<b>Internal &amp; University Attainment:</b>			3.00	1.00	
<b>Weightage</b>			70%	30%	
<b>CO Attainment for the course (Internal, University)</b>			2.10	0.30	
<b>CO Attainment for the course (Direct Method)</b>			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 RAJASHWARI	Academic Year:	2022-23
Branch & Section:	CSE-C	Year / Semester:	I -II SEM
Course Name:	PYTHON PROGRAMMING		

### CO-PO mapping

PO/PSO/ CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2
C127.1	3	2	-	1	-	-	-	-	-	-	-	1	2	3
C127.2	3	-	-	1	2	-	-	-	-	-	-	1	-	2
C127.3	3	2	-	1	-	-	-	-	2	-	2	1	1	-
C127.4	-	3	-	1	2	-	-	-	-	-	-	1	-	-
C127.5	-	3	-	1	-	-	-	-	-	-	-	1	1	1
C127.6	-	-	3	1	2	-	-	-	2	-	2	1	2	1
C127	3	2.5	3	1	2	-	-	-	2	-	2	1	1.5	1.7

CO	Course Outcome Attainment
<b>CO1</b>	2.40
<b>CO2</b>	2.40
<b>CO3</b>	2.40
<b>CO4</b>	2.40
<b>CO5</b>	2.40
<b>CO6</b>	2.40
<b>Overall course attainment level</b>	<b>2.40</b>

**PO-ATTAINMENT**

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2
<b>CO Attainment</b>	<b>2.40</b>	<b>2.00</b>	<b>2.40</b>	<b>0.80</b>	<b>1.60</b>							<b>0.80</b>

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