COURSE FILE

ON

Python Programming lab
Course Code – CS201ES

I B.Tech II-SEMESTER
A.Y.: 2022-2023

Prepared by
Mrs. M.TEJASWI
Assistant Professor

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.

Sri Indu Institute of Engineering and Technology (Autonomous)

(Formerly RVR Institute of Engineering & Technology)

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EAMCET CODE: INDI   Approved by AICTE, New Delhi, & Affiliated to JNTUH, Hyderabad.   JNTUH CODE: X3

ESTD : 2007

Name of the Physical laboratory:	PYTHON PROGRAMMING LABORATORY
Course code	CS201ES
Room No	D-007
Name of the lab incharge	Mrs L.SARITHA
Name of the faculty incharge	Mrs M.TEJASWI, Assistant Professor

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Main Road, Sheriguda, Ibrahimpatnam, R.R. Dist. 501 510, Telangana.
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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 H&S
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ESTD : 2007

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (AI&DS)

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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Khalsa Ibrahimpatnam, Sheriguda (V), Ibrahimpatnam (M), Ranga Reddy Dist., Telangana – 501 510
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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 ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

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.	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.	CH206BS	Engineering Chemistry Laboratory	0	0	2	1
7.	EE202ES	Basic Electrical Engineering Laboratory	0	0	2	1
8.	CS201ES	Python Programming Laboratory	0	1	2	2
9.	CS203ES	IT Workshop	0	0	2	1
		Total	**11**	**3**	**12**	**20**

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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 aregiven.
   ii) Given coordinates (x1, y1), (x2, y2) 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. Writes a recursive function that generates all binary strings of n-bit length

Week - 5:

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.

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 ituses 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 forcorrectness.

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 init 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(C128)

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

CO No	DESCRIPTION
C128.1	Develop the application specific codes using python. (Applying)
C128.2	Understand Strings, Lists, Tuples and Dictionaries in Python. (Understanding)
C128.3	Understand Functions in Python. (Understanding)
C128.4	Evaluate programs using modular approach , MRO,Exception Handling.(Evaluating)
C128.5	Evaluate programs using Python standard library, file I/O. (Evaluating)
C128.6	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
C128.1	3	2	-	1	-	-	-	-	-	-	-	1	2	3
C128.2	3	-	-	1	2	-	-	-	-	-	-	1	-	2
C128.3	3	2	-	1	-	-	-	-	2	-	2	1	1	-
C128.4	-	3	-	1	2	-	-	-	-	-	-	1	-	-
C128.5	-	3	-	1	-	-	-	-	-	-	-	1	1	1
C128.6	-	-	3	1	2	-	-	-	2	-	2	1	2	1
C128	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	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 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 aregiven. ii) Given coordinates (x1, y1), (x2, y2) find the distance between two points 4. Read name, address, email and phone number of a person through keyboard and print the details.	CO1	PO1,PO2,PO4,PO12,PSO1,PSO2
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)	CO1	PO1,PO2,PO4,PO12,PSO1,PSO2
3	1. i) Write a program to convert a list and tuple into arrays.	CO2,CO3	PO1,PO2,PO4,

	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 returnsTrue 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.		PO5,PO9,PO1 1,PO12,PSO1, PSO2
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. Writes a recursive function that generates all binary strings of n-bit length	CO2,CO3	PO1,PO2,PO4, PO5,PO9,PO1 1,PO12,PSO1P SO2
5	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. 3. Use the structure of exception handling all general purpose exceptions.	CO4, CO5	PO2,PO4,PO5, PO12,PSO1,PS O2
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_rectangle so 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 a representation of the Point on the Canvas.	CO2,CO5	PO1,PO2,PO4, PO5,PO12,PS O1,PSO2

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

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.

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	**CO2,CO5**	**PO1,PO2,PO4, PO5,PO12,PS O1,PSO2**
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.	**CO2,CO4, CO6**	**PO1, PO2,PO3 ,PO4,PO5,PO9 ,PO11,PO12,P SO1,PSO2**

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Class: AI &DS   **Semester: II W.E.F**-03-04-2023   **LH:-D-210**

	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	VI 2.25-3.15	VII 3.15-4.00
MON	CAEG PRACTICE			**L**	EC	BEE	EDC	LIBRARY
TUE	EC/BEE LAB			**U**	ODE	EC	BEE	BEE(T)/EDC(T)
WED	ITWS LAB			**N**	ODE	EDC	BEE	PYTHON(T)
THU	ODE	EC	EDC	**C**	EC/BEE LAB			ODE(T)/EC(T)
FRI	BEE	ODE	ODE	**H**	CAEG PRACTICE			EDC(T)/ BEE(T)
SAT	EDC	EC	BEE		PYTHON LAB			EC(T)/ODE(T)

Course Code	Course Name	Name of the Faculty	Course Code	Course Name	Name of the Faculty
MA201BS	ODE-Ordinary Differential Equations & Vector Calculus	V.SUJATHA	**CH206BS**	EC LAB-Engineering Chemistry Laboratory	K.MOUNIKA/V.MOUNIKA
CH203BS	EC-Engineering Chemistry	K.MOUNIKA	**EE202ES**	BEE LAB-Basic Electrical Engineering Laboratory	G.BHARGAVI/K.RAJASHEKAR
ME201ES	CAEG-Computer Aided Engineering Graphics	A.MALLESH	**CS201ES**	PYTHON Programming Laboratory	M.TEJASWI/ P.BALU
EE201ES	BEE-Basic Electrical Engineering	G.BHARGAVI	**CS203ES**	ITWS-IT Workshop	N.KEERTHI CHANDANA/B.SWATHI
EC201ES	EDC-Electronic Devices & Circuits	P.SRILATHA			

Class In-Charge   Time Table Coordinator   Head of The Department

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X3

BR22

Python Programming Lab

Year & Semester: I yr   II sem   Branch: CSE-AI&DS

Subject Name: **Python Programming Lab**

Faculty Name: M.TEJASWI

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 geometricalshapes 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 ituses 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 multiplelevels of Inheritances.

SET-5

1. Write a python code to read a phone number and email-id from the user and validate it forcorrectness.

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 init 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 buttonsas 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 aregiven.
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.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 uppercasecharacter 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 returnsTrue if it is a palindromeand 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 sortedin ascending order and False otherwise.

3. Write a function called has_duplicates that takes a list and returns True if there is any element thatappears 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 theunique 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 itscontent. 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 everyword 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. Writes a recursive function that generates all binary strings of n-bit length

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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(M) Ibrahimpatnam (M) R.R. Dist-501 510

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

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https://siiet.ac.in/

PYTHONProgramming Lab External Time Table
Examination Branch

A.Y. : 2022-23   SEM-II

DATE	Day	Branch	Session	HT.No	Total No of Students	Internal Examiner	External Examiner
						Remarks	
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 22X31A05J1	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
MainRoad Sheriguda(V),
Ibrahipatnam(M),R.R. Dist.,
Telangana-501510

EXAM BRANCH

PRINCIPAL
PRINCIPAL
Sri Indu Institute of Engineering & T.
Sheriguda(V), Ibrahimpatnam(M)
R.R Dist. Telangana -501 510

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

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

PYTHON PROGRAMMING LAB
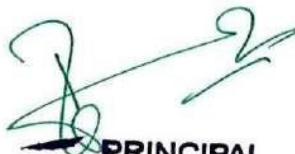
Class: I-B.Tech CSE-C   **Semester: II**   **LH. NO: D-007**   **W.E.F:03-04-2023**

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	I-II CSE-CYBER –PYTHON LAB			
Tuesday	I-II CSE-C –PYTHON LAB			U	I-II AI&ML -A–PYTHON LAB			
Wednesday	I-II AI&ML -B –PYTHON LAB			N	I-II CSE-A –PYTHON LAB			
Thursday	I-II ECE –PYTHON LAB			C	LAB MAINTENANCE			
Friday	I-II CSE-B –PYTHON LAB			H	I-II CSE-IOT –PYTHON LAB			
Saturday	LAB MAINTENANCE				I-II AI&DS –PYTHON LAB			

Head of the Department
Department of H&S
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Sheriguda(V) Ibrahimpatnam (M) R.R. Dist-501 51?

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PYTHON PROGRAMMING LAB

PHYSICAL LAB-12 FLOOR PLAN

ROOM NO: D-007　　　　　**BLOCK:D**　　　　　**FLOOR:GROUND FLOOR**
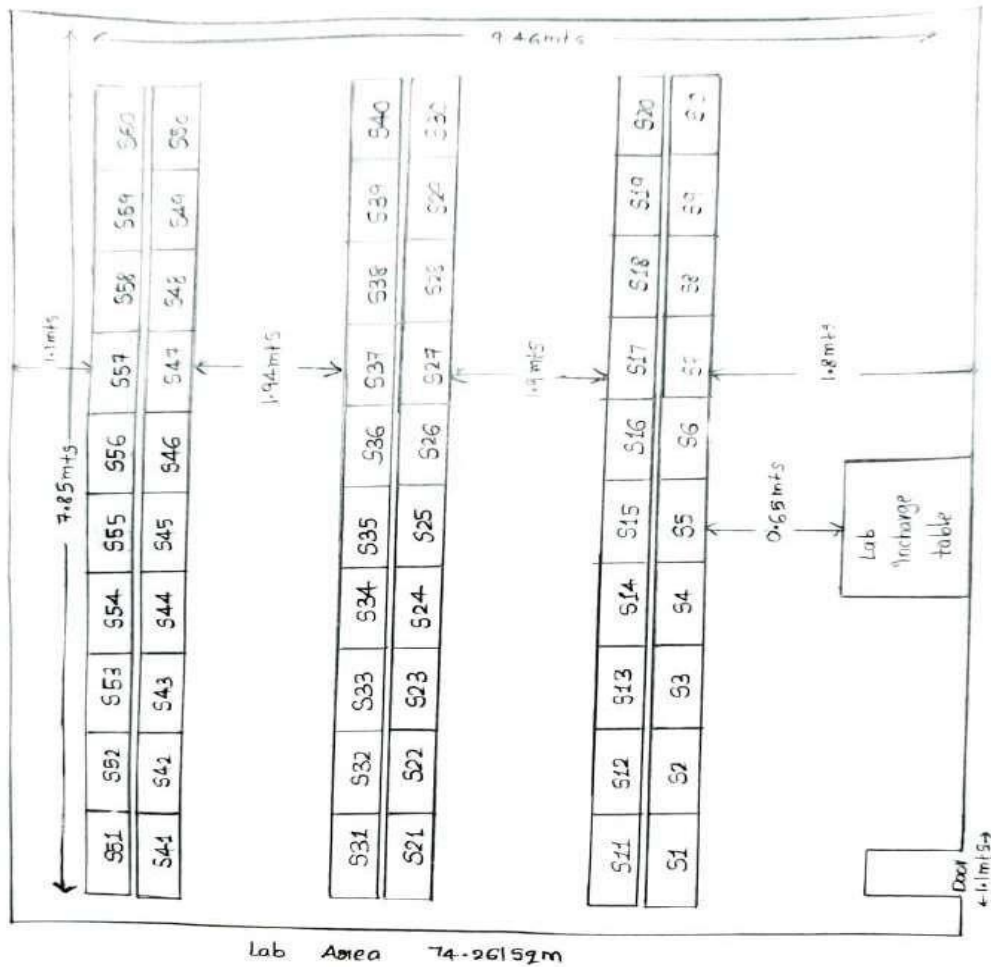
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Do's

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

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 : M.TEJASWI   Academic Year: 2022-23
Branch & Section: AI&DS   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
Max. Marks ==>		**10**	**10**	**10**
1	22X31A7201	10	8	9
2	22X31A7202	8	8	8
3	22X31A7203	10	8	9
4	22X31A7204	AB	AB	AB
5	22X31A7205	8	8	7
6	22X31A7206	10	8	8
7	22X31A7207	10	8	8
8	22X31A7208	9	8	8
9	22X31A7209	8	8	9
10	22X31A7210	10	8	10
11	22X31A7211	8	8	8
12	22X31A7212	10	8	8
13	22X31A7213	10	8	8
14	22X31A7214	8	8	8
15	22X31A7215	10	8	8
16	22X31A7216	10	8	7
17	22X31A7217	8	8	9
18	22X31A7218	10	8	8
19	22X31A7219	10	8	10
20	22X31A7220	10	8	8
21	22X31A7221	9	8	9
22	22X31A7222	10	8	10
23	22X31A7223	10	8	10
24	22X31A7224	8	8	5
25	22X31A7225	10	8	8
26	22X31A7226	8	8	10
27	22X31A7227	10	8	8
28	22X31A7228	8	8	8
29	22X31A7229	10	8	9
30	22X31A7230	8	8	8
31	22X31A7231	7	8	8
32	22X31A7232	7	8	8
33	22X31A7233	10	8	9
34	22X31A7234	AB	AB	AB
35	22X31A7235	8	8	9
36	22X31A7236	8	8	9
37	22X31A7237	8	8	8
38	22X31A7238	8	8	7
39	22X31A7239	8	8	9
40	22X31A7240	AB	AB	AB

41	22X31A7241	10	8	9
42	22X31A7242	10	8	10
43	22X31A7243	8	8	8
44	22X31A7244	10	8	8
45	22X31A7245	8	8	8
46	22X31A7246	8	8	8
47	22X31A7247	8	8	9
48	22X31A7248	10	8	9
49	22X31A7249	8	8	9
50	22X31A7250	9	8	9
51	22X31A7251	8	8	6
52	22X31A7252	6	8	7
53	22X31A7253	10	8	8
54	22X31A7254	8	8	8
55	22X31A7255	8	8	8
56	22X31A7256	8	8	8
57	22X31A7257	10	8	8
58	22X31A7258	7	8	8
59	22X31A7259	8	8	8
60	22X31A7260	10	8	9
61	22X31A7261	10	8	8
62	22X31A7262	8	8	8
63	22X31A7263	10	8	8
64	22X31A7264	8	8	5
Target set by the faculty / HoD	6.00	6.00	6.00
Number of students performed above the target	61	61	59
Number of students attempted	64	64	64
Percentage of students scored more than target	95%	95%	92%

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	95%	95%	92%
CO - 2	95%	95%	92%
CO - 3	95%	95%	92%
CO - 4			
CO - 5			
CO - 6			

CO	Intrnal practical	E+E+R	Overall	Level
CO-1	95%	92%	94%	3
CO-2	95%	92%	94%	3
CO-3	95%	92%	94%	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 :	M.TEJASWI		Academic Year:	2022-23
Branch & Section:	AI&DS		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
Max. Marks ==>		**10**	**10**	**10**	**10**
1	22X31A7201	9	6	7	10
2	22X31A7202	6	6	7	10
3	22X31A7203	6	8	8	10
4	22X31A7204	7	7	7	10
5	22X31A7205	6	6	8	10
6	22X31A7206	10	6	7	10
7	22X31A7207	6	6	6	10
8	22X31A7208	8	6	6	10
9	22X31A7209	7	6	7	10
10	22X31A7210	10	6	9	10
11	22X31A7211	7	6	5	10
12	22X31A7212	10	6	8	10
13	22X31A7213	7	6	7	10
14	22X31A7214	7	6	6	10
15	22X31A7215	7	6	5	10
16	22X31A7216	7	6	6	10
17	22X31A7217	10	8	9	10
18	22X31A7218	7	6	6	10
19	22X31A7219	7	6	5	10
20	22X31A7220	7	6	8	10
21	22X31A7221	7	6	5	10
22	22X31A7222	10	6	8	10
23	22X31A7223	10	6	7	10
24	22X31A7224	6	6	4	10
25	22X31A7225	10	6	4	10
26	22X31A7226	10	6	8	10
27	22X31A7227	10	6	9	10
28	22X31A7228	7	6	4	10
29	22X31A7229	7	6	7	10
30	22X31A7230	7	6	4	10
31	22X31A7231	7	6	7	10
32	22X31A7232	7	6	6	10
33	22X31A7233	7	6	7	10
34	22X31A7234	7	6	7	10
35	22X31A7235	7	6	5	10
36	22X31A7236	7	6	7	10
37	22X31A7237	7	6	5	10
38	22X31A7238	7	6	5	10
39	22X31A7239	10	6	5	10
40	22X31A7240	AB	AB	AB	A

41	22X31A7241	7	6	5	10
42	22X31A7242	7	6	5	10
43	22X31A7243	7	6	7	10
44	22X31A7244	7	6	5	10
45	22X31A7245	7	6	5	10
46	22X31A7246	7	6	3	10
47	22X31A7247	AB	AB	AB	10
48	22X31A7248	9	6	5	10
49	22X31A7249	10	6	7	10
50	22X31A7250	7	6	5	10
51	22X31A7251	7	6	3	10
52	22X31A7252	10	6	6	10
53	22X31A7253	10	6	7	10
54	22X31A7254	10	6	6	10
55	22X31A7255	7	6	6	10
56	22X31A7256	10	6	4	10
57	22X31A7257	7	6	6	10
58	22X31A7258	7	6	5	10
59	22X31A7259	7	6	5	10
60	22X31A7260	10	6	7	10
61	22X31A7261	6	6	4	10
62	22X31A7262	10	6	8	10
63	22X31A7263	7	6	5	10
64	22X31A7264	6	6	4	10
Target set by the faculty / HoD		6.00	6.00	6.00	6.00
Number of students performed above the target		62	62	36	63
Number of students attempted		64	64	64	64
Percentage of students scored more than target		97%	97%	56%	98%

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	97%	97%	56%	56%
CO - 5	97%	97%	56%	56%
CO - 6	97%	97%	56%	56%

CO	Intrnal practical	E+E+R	ppt	Overall	Level
CO-1					
CO-2					
CO-3					
CO-4	97%	56%	56%	70%	2
CO-5	97%	56%	56%	70%	2
CO-6	97%	56%	56%	70%	2

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

Attainment (Internal 2 Examination) =   **2**

SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Humanities and Sciences

Course Outcome Attainment (University Examinations)

Name of the faculty : M.TEJASWI   Academic Year: 2022-23

Branch & Section: AI&DS   Year / Semester: I -II SEM

Lab Course Name: PYTHON PROGRAMMING

S.No	Roll Number	Marks Secured		S.No	Roll Number	Marks Secured
1	22X31A7201	46		35	22X31A7235	44
2	22X31A7202	52		36	22X31A7236	44
3	22X31A7203	52		37	22X31A7237	50
4	22X31A7204	47		38	22X31A7238	40
5	22X31A7205	34		39	22X31A7239	42
6	22X31A7206	43		40	22X31A7240	A
7	22X31A7207	40		41	22X31A7241	46
8	22X31A7208	47		42	22X31A7242	44
9	22X31A7209	40		43	22X31A7243	42
10	22X31A7210	54		44	22X31A7244	42
11	22X31A7211	54		45	22X31A7245	46
12	22X31A7212	39		46	22X31A7246	40
13	22X31A7213	38		47	22X31A7247	A
14	22X31A7214	38		48	22X31A7248	43
15	22X31A7215	46		49	22X31A7249	40
16	22X31A7216	42		50	22X31A7250	44
17	22X31A7217	42		51	22X31A7251	38
18	22X31A7218	42		52	22X31A7252	52
19	22X31A7219	48		53	22X31A7253	42
20	22X31A7220	43		54	22X31A7254	44
21	22X31A7221	44		55	22X31A7255	40
22	22X31A7222	42		56	22X31A7256	40
23	22X31A7223	46		57	22X31A7257	52
24	22X31A7224	46		58	22X31A7258	44
25	22X31A7225	39		59	22X31A7259	40
26	22X31A7226	52		60	22X31A7260	50
27	22X31A7227	48		61	22X31A7261	46
28	22X31A7228	41		62	22X31A7262	45
29	22X31A7229	40		63	22X31A7263	40
30	22X31A7230	40		64	22X31A7264	38
31	22X31A7231	36				
32	22X31A7232	42				
33	22X31A7233	48				
34	22X31A7234	40				

Class Average mark	44	
Number of students performed above the target	29	
Number of successful students	64	
Percentage of students scored more than target	45%	
Attainment level	**1**	

Attainment Level	% students
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 : M.TEJASWI

Branch & Section: AI&DS

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		2.00	2.00	1.00	1.70
CO5		2.00	2.00	1.00	1.70
CO6		2.00	2.00	1.00	1.70
Internal & University Attainment:			2.50	1.00	
Weightage			70%	30%	
CO Attainment for the course (Internal, University)			1.75	0.30	
CO Attainment for the course (Direct Method)			2.05		

Overall course attainment level   **2.05**

SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY
Department of Humanities and Sciences
Program Outcome Attainment (from Course)

Name of Faculty: M.TEJASWI   Academic Year: 2022-23
Branch & Section: AI&DS   Year / Semester: I -II SEM
Course Name: PYTHON PROGRAMMING

CO-PO mapping

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2		1								1	2	3
CO2	3			1	2							1		2
CO3	3	2		1								1	1	
CO4		3		1	2							1		
CO5		3		1								1	1	1
CO6			3	1	2							1	2	1
Course	3	2.5	3	1	2							1	1.5	1.7

CO	Course Outcome Attainment
CO1	2.40
CO2	2.40
CO3	2.40
CO4	1.70
CO5	1.70
CO6	1.70
Overall course attainment level	**2.05**

PO-ATTAINMENT

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO Attainment	2.05	1.71	2.05	0.68	1.37							0.68

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