

K S INSTITUTE OF TECHNOLOGY BANGALORE

DEPARTMENT OF MECHANICAL ENGINEERING COURSE FILE

NAME OF THE STAFF

: Mr.ANILKUMAR A

SUBJECT CODE/NAME

:BPLCK105B/INTRODUCTION TO PYTHON PROGRAMMING

SEMESTER/YEAR

: I/H-Sec

ACADEMIC YEAR

: 2023-2024 (ODD)

BRANCH

: COMPUTER SCIENCE & ENGINEERING (IOT & CYBER

SECURITY INCLUDING BLOCK CHAIN TECHNOLOGY)

COURSE INCHARGE

HOD

Head of the Department Dept. of Mechanical Engg K.S. Institute of Technology Bengaluru 560/109



K S INSTITUTE OF TECHNOLOGY BANGALORE

MECHANICAL ENGINEERING DEPARTMENT

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11	IA question Paper with Scheme (both sets)
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#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109

VISION

"To impart quality technical education with ethical values, employable skills and research to achieve excellence"

MISSION

- To attract and retain highly qualified, experienced & committed faculty.
- To create relevant infrastructure
- Network with industry & premier institutions to encourage emergence of new ideas by providing research & development facilities to strive for academic excellence
- To inculcate the professional & ethical values among young students with employable skills & knowledge acquired to transform the society

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

Vision

 To create competent professionals in Computer Science and Engineering with adequate skills to drive the IT industry

Mission

- Impart sound technical knowledge and quest for continuous learning.
- To equip students to furnish Computer Applications for the society through experiential learning and research with professional ethics.
- Encourage team work through inter-disciplinary project and evolve as leaders with social concerns.



K. S. INSTITUTE OF TECHNOLOGY

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109
DEPARTMENT OF MECHANICAL ENGINEERING

PROGRAM OUTCOMES(PO's)

Engineering Graduates will be able to:

- PO1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- PO2: Problem analysis: Identify, formulate, review research literature, and analyze complexengineering 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 researchmethods 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 modernengineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- PO6: The engineer and society: Apply reasoning informed by the contextual knowledge to assesssocietal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- PO7: Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- **PO8:** Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- PO9: Individual and team work: Function effectively as an individual, and as a member or leader indiverse teams, and in multidisciplinary settings.
- PO10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- PO11: Project management and finance: Demonstrate knowledge and understanding of theengineering 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 inindependent and life-long learning in the broadest context of technological change.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

PEO1: Excel in professional career by acquiring knowledge in cutting edge Technology and contribute to the society as an excellent employee or as an entrepreneur in the field of Computer Science & Engineering.

PEO2: Continuously enhance their knowledge on par with the development in IT industry and pursue higher studies in computer science &engineering.

PEO3: Exhibit professionalism, cultural awareness, team work, ethics, and effective communication skills with their knowledge in solving social and environmental problems by applying computer technology.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

PSO1: Ability to understand, analyze problems and implement solutions in Programming languages, as well to apply concepts in core areas of Computer Science in association with professional bodies and clubs.

PSO2: Ability to use computational skills and apply software knowledge to develop effective solutions and data to address real world challenges.



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#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109

DEPARTMENT OF MECHANICAL ENGINEERING

CO-PO MAPPING WITH JUSTIFICATION

Course: Introduction Programming	to Pytho	1	Course Code: BPLCK105B Type: Integrated Course					
Course Incharge: A	A	Academic year: 2023-2024						
Sem / Section: I / H			Branch: Computer Science & Engineering (IoT and Cyber security including Block chain Technology)					
		No of	Hours per v	veek	1 1 2 2			
Theory (Lecture Class)		tical/Field lied Activities	Total/Week		Total teaching hours			
L+T+P+S:2+2+2+0 L-Lecture, T-Tutorial, P-Practical/ Drawing, S-Self Study Component	40	+12 lab	6			58		
			Marks					
Internal Assessme	Total			Credits				
50		50	100			3		

Aim/Objective of the Course:

This Course will enable students to:

- 1. Learn the syntax and semantics of the Python programming language.
- 2. Illustrate the process of structuring the data using lists, tuples
- 3. Appraise the need for working with various documents like Excel, PDF, Word and Others.
- 4. Demonstrate the use of built-in functions to navigate the file system.
- 5. 5. Implement the Object-Oriented Programming concepts in Python.

Course Learn After completi	Bloom's Level						
BPLCK105.1	BPLCK105.1 Utilize the basic principles python programming to define variable, Boolean expressions, flow control and comparison operators						
BPLCK105.2	Select and define suitable functions, local and global variables with exception handling. To define lists, tuples and its basic operations	Applying (K3)					
BPLCK105.3	Make use of Strings, Dictionaries, and Useful String Methods and to read and write files.	Applying (K3)					
BPLCK105.4	Make use of the concept of Walking a Directory Tree, Compressing Files with the zip file and raising Exceptions	Applying (K3)					
BPLCK105.5	Make use of Object-oriented features, Programmer-defined types, time, Pure functions.	Applying (K3)					

	Syllabus Content:	COs, POs and PSOs mapping
ŀ		Page 6 of 7
	Module 1: Python Basics: Entering Expressions into the Interactive Shell, The Integer, Floating-Point, and String Data Types, String Concatenation and Replication, Storing Values in Variables, Your First Program, Dissecting Your Program, Flow	CO1 and CO2
	control: Boolean Values, Comparison Operators, Boolean Operators, Mixing Boolean and Comparison Operators, Elements of Flow Control, Program Execution, Flow Control Statements, Importing Modules, Ending a Program Early with sys.exit(),	10hrs
	Functions: def Statements with Parameters, Return Values and return Statements, The None Value, Keyword Arguments and print(), Local and Global Scope, The	PO1-3
	global Statement,	PO2-2 PO3-2
	Exception Handling, A Short Program: Guess the Number	PO3-2 PO5-1
	Module 1: Laboratory Experiment	PO6-1
	a. Develop a program to read the student details like Name, USN, and Marks in three	PO8-1
	subjects. Display the student details, total marks and percentage with suitable	PO9-1
	messages	PO10-2
	b. Develop a program to read the name and year of birth of a person. Display whether	PO12-1
	the person is a senior citizen or not.	PSO1-2
	LO: At the end of this session the student will be able to,	PSO2-1
	1. Define variables	
	2. Write the first program in python	
	3. Use comparison operators	
	Module 2:	CO2
	Lists: The List Data Type, Working with Lists, Augmented Assignment Operators, Methods, Example Program: Magic 8 Ball with a List, List-like Types: Strings and	15hrs.
	Tuples, References,	PO1-3
	네가 그래마다 그는 그 사람은 학생에 회사들이다. 나라도 모든 얼룩 보다면 한 레이트 문제를 모르게 되어 가지 아름이 하는데 먹어보다.	PO2-2
	Module 2: Laboratory Experiment	PO3-2
	a. Develop a program to generate Fibonacci sequence of length (N). Read N from the	PO5-1
	console.	PO6-1 PO8-1
	b. Write a function to calculate factorial of a number. Develop a program to compute binomial coefficient (Given N and R).	PO9-1
	LO: At the end of this session the student will be able to,	PO10-2
	1. Write List data types, and tuples.	PO12-1
	2. Write the program of Magic 8 ball with List	PSO1-2
	3. To model structure to real world	PSO2-1
	시민 사람들은 어떻게 되면 하고 있다면 맛이 없어서 얼마나 아니는 아니는 아니까지 않아 모양에 없었다면 되어 사람들	

Module 3:	
Dictionaries and Structuring Data: The Dictionary Data Type, Pretty Printing, Using Data Structures to Model Real-World Things	Page 7 of 74
Manipulating Strings: Working with Strings, Useful String Methods, Project: Password Locker, Project: Adding Bullets to Wiki Mark up	CO3
Reading and Writing Files: Files and File Paths, The os.path Module, The File	14hrs
Reading/Writing Process, Saving Variables with the shelve Module, Saving Variables	PO1-3
with the print.format() Function, Project: Generating Random Quiz Files, Project:	PO2-2
Multiclipboard	PO3-3
Module 3: Laboratory Experiment	PO5-1 PO6-1
	PO8-1
a. Read N numbers from the console and create a list. Develop a program to print mean, variance and standard deviation with suitable messages.	PO9-1
b. Read a multi-digit number (as chars) from the console. Develop a program to print	PO10-2
	PO12-1
the frequency of each digit with suitable message.	PSO1-3 PSO2-1
 LO: At the end of this session the student will be able to, Write a useful string and do simple project Explain the files and files paths, reading /writing process. 	
Module 4: Organizing Files: The shutil Module, Walking a Directory Tree,	
Compressing Files with the zipfile Module, Project: Renaming Files with American-	
Style Dates to European-Style Dates, Project: Backing Up a Folder into a ZIP File,	
Debugging: Raising Exceptions, Getting the Traceback as a String, Assertions,	
Logging, IDLE"s Debugger.	CO4
Module 4: Laboratory Experiment a) Develop a program to print 10 most frequently appearing words in a text file.	11hrs
Hint: Use dictionary with distinct words and their frequency of occurrences Sort	PO1-3
the dictionary in the reverse order of frequency and display dictionary slice of first 10 items]	PO2-3
b) Develop a program to sort the contents of a text file and write the sorted contents	PO3-3
into a separate text file. [Hint: Use string methods strip (), len (), list methods sort	PO5-1 PO6-1
(), append (), and file methods open (), readlines (), and write ()]	PO8-1
c) Develop a program to backing Up a given Folder (Folder in a current working	PO9-1
directory) into a ZIP File by using relevant modules and suitable methods.	PO10-2
d) Write a function named DivExp which takes TWO parameters a, b and returns a value c (c=a/b). Write suitable assertion for a>0 in function DivExp and raise an	PO12-1
exception for when b=0. Develop a suitable program which reads two values from	PSO1-3 PSO2-1
LO: At the end of this session the student will be able to,	1 502-1
1. Write a walking a Directory Tree	
2. Able to rename files with American style dates to European style	
3. Handling the exceptions and trace back	

Module5: Classes and objects: Programmer-defined types, Attributes, Rectangles,	
nstances as return values, Objects are mutable, Copying,	Page 8 of
Classes and functions: Time, Pure functions, Modifiers, Prototyping versus planning,	
Classes and methods: Object-oriented features, Printing objects, Another example, A	CO5
nore complicated example, The init method, Thestr method, Operator overloading, Type-based dispatch, Polymorphism, Interface and implementation,	5hrs
Module 5: Laboratory Experiment	PO1-3
	PO2-3
. Define a function which takes TWO objects representing complex numbers and	PO3-3
eturns new complex number with a addition of two complex numbers. Define a	PO5-1
uitable class 'Complex' to represent the complex number. Develop a program to read	PO6-1
$I(N \ge 2)$ complex numbers and to compute the addition of N complex numbers.	PO8-1
	PO9-1
Develop a program that uses class Student which prompts the user to enter marks in	PO10-2
aree subjects and calculates total marks, percentage and displays the score card	PO12-1
etails. [Hint: Use list to store the marks in three subjects and total marks. Use	PSO1-3
_init() method to initialize name, USN and the lists to store marks and total, Use	PSO2-1
etMarks() method to read marks into the list, and display() method to display the core card details.]	
O: At the end of this session the student will be able to,	
1. Able to write programmer defined classes and objects, Attributes etc.	
2. Able to do prototyping and planning	
Toyt Pooles	

Text Books: -

1. Al Sweigart, "Automate the Boring Stuff with Python", 1stEdition, No Starch Press, 2015. (Available under CC-BY-NC-SA license at https://automatetheboringstuff.com/) (Chapters 1 to 18, except 12) for lambda functions use this link: https://www.learnbyexample.org/python-lambda-function/

2. Allen B. Downey, "Think Python: How to Think Like a Computer Scientist", 2nd Edition, Green Tea Press, 2015. (Available under CC-BY-NC license http://greenteapress.com/thinkpython2/thinkpython2.pdf

Reference Books:

- The Python Language Reference Manual (version 3.2), Guido van Rossum, and Fred L. Drake, Jr. (Editor), ISBN: 1906966141, Network Theory Ltd, 120 pages (Revised November 2006)
- Python Essential Reference, David Beazley, ISBN: 0672329786, Addison-Wesley Professional; 717 pages (July, 2009)

Useful websites:

- https://www.learnbyexample.org/python/
- https://www.learnpython.org/
- https://pythontutor.com/visualize.html#mode=edit
- https://www.w3schools.com/python/python intro.asp

Useful Journals:

- Programming Language Trends O'Reilly Radar". Radar.oreilly.com
- "The RedMonk Programming Language Rankings: tecosystems". Redmonk.com.
- Kuhlman, Dave. "A Python Book: Beginning Python, Advanced Python, and Python Exercises"
- Downey A, Elkner J and Meyers C 2008 "How to think like Computer Scientist' Learning with Python"

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Teaching and Learning Methods:

1. Lecture class

2. Self-study

3. Field visits/Group Discussions/Seminars

Type of test/examination (For 2022 scheme)

Type of test/examination: Written examination

Continuous Internal Evaluation (CIE): 50 marks (Average of two CIE will be considered)

Semester End Exam (SEE): 50marks (students have to answer all main questions)

Test duration:

Examination duration: 3 hrs

CO - PO MAPPING

PO1: Science and engineering Knowledge

PO7:Environment and Sustainability

PO2: Problem Analysis

PO8:Ethics

PO3: Design & Development

PO9:Individual & Team Work

PO4: Investigations of Complex Problems

PO10: Communication

PO5: Modern Tool Usage

PO11:Project Management &

Finance

PO6: Engineer & Society

PO12:Life long Learning

PSO1: Graduates will demonstrate the technical skills to address real-world challenges in IoT, cyber security, and block chain technology while upholding ethical considerations and social responsibility.

PSO2: Graduates will engage in continuous learning, collaborate cross-functionally, and adeptly create and implement inventive solutions for societal benefit while ensuring digital security and privacy.

CO BPLCK105	Bloom's Level	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
BPLCK105.1	K4	3	2	2		11	1	40.	* 1	. 1	2	E. J.	1	2	1
BPLCK105.2	K4	3	2	2	- 2	-1	1.1	· . • · .	-1-	\$ 1.5.	2	7	1.5	2	1.
BPLCK105.3	К3	- 3	2	3	2 - 1	1	-1	- 1	1	1	2	-	1	3	1
BPLCK105.4	K4	3	3	3	- :	1.1	1.1	- 1	1	1	2		1	3	1.1
BPLCK105.5	К3	3	3	3		1	1.		1	1.	2		1	3	1
BPLCK105 (Before CBS)		3	2.4	2.6		-1	1		1	1	2		1,	2.6	1
Content Beyond Syllabus (Activity)			-			2				2	2	•	2	-	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
BPLCK105		3	2.4	2.6	-	2	2:17	· Velvan	-	2	2	1, E	2	2.6	2

2

Identify

Formulate

2

13

			Analyse Complex Engineering Problems	Page 11 of 7
14		3	 The students will able to Design and implementation is required to write the program for the given problem statement. 	2
15		5	Moderately mapped as students learn modern tools (Mu editor) to execute python programs / applications	2
16		6	The students will able to work effectively in teams to conduct mini project as (using Python code) Individual In a Team	1
17	*	8	The students will able to Communicate effectively by • Write Effective programs • Effective code optimization	1
18		9	The students will able to gain the knowledge and understand • Programming skills	1
19		10	The students will able to engage in knowledge upgradation through Independent learning Lifelong learning	2
20		12	Apply the concepts programming skill set in professional development	1
21		PSO1	The students will able to understand the fundamentals of programming in Image processing Forecasting Data Analysis	2
22		PSO2	The students will able to gain the ability to • Develop a program needed for societal concern Development of web based applications	1
	CO3	: Ma	ake use of Strings, Dictionaries, and Useful String Methods and to read an	nd write files.
23		1	 The students will able to gain Knowledge Of Python syntax and semantics Knowledge of using flow control statements in writing a program 	3
24		2	The students will able to Identify Formulate Analyse Complex Engineering Problems	2
25	CO3	3	 The students will able to Design and implementation is required to write the program for the given problem statement. 	2
26		5	Moderately mapped as students learn modern tools (Mu editor) to execute python programs / applications	2
27		6	The students will able to work effectively in teams to conduct mini project as (using Python code) Individual In a Team	1

28		8	The students will able to Communicate effectively by Write Effective programs Effective code optimization	Page 12 0
29		9	The students will able to gain the knowledge and understand • Programming skills	1
30		10	The students will able to engage in knowledge upgradation through Independent learning Lifelong learning	2
31		12	The student will be able to Apply the concepts programming skill set in professional development	1
32		PSO1	The students will able to understand the fundamentals of programming in Image processing Forecasting Data Analysis	2
33		PSO2	The students will able to gain the ability to • Develop a program needed for societal concern • Development of web based applications	1
CO	4: M:	ake us	e of the concept of Walking a Directory Tree, Compressing Files with the Exceptions	e zip file and raising
34		-1	 The students will able to gain Knowledge Of Python syntax and semantics Knowledge of using flow control statements in writing a program 	3
35		2	The students will able to Identify Formulate Analyse Complex Engineering Problems	. 2
36		3	The students will able to Design and implementation is required to write the program for the given problem statement.	2
37		5	Moderately mapped as students learn modern tools (Mu editor) to execute python programs / applications	2
38	CO4	- 6	The students will able to work effectively in teams to conduct mini project as (using Python code) Individual In a Team	1
39		8	The students will able to Communicate effectively by • Write Effective programs • Effective code optimization	1
40		9	The students will able to gain the knowledge and understand • Programming skills	1
41		10	The students will able to engage in knowledge upgradation through Independent learning Lifelong learning	2
42		12	The student will be able to • Apply the concepts programming skill set in professional development	i i
43		PSO1	The students will able to understand the fundamentals of programming in	2

44		PSO2	Develop a program needed for societal concern Development of web based applications	Page 13 of
	СО	5: Ma	ake use of Object-oriented features, Programmer-defined types, time, Pur	e functions.
45		1	 The students will able to gain Knowledge Of Python syntax and semantics Knowledge of using flow control statements in writing a program 	3
46		2	The students will able to Identify Formulate Analyse Complex Engineering Problems	2
47		3	The students will able to Design and implementation is required to write the program for the given problem statement.	2
48		5	Moderately mapped as students learn modern tools (Mu editor) to execute python programs / applications	2
49		6	The students will able to work effectively in teams to conduct mini project as (using Python code) Individual In a Team	1
50	CO5	8	The students will able to Communicate effectively by Write Effective programs Effective code optimization	1
51		9	The students will able to gain the knowledge and understand • Programming skills	1
52		10	The students will able to engage in knowledge upgradation through Independent learning Lifelong learning	2
53		12	The student will be able to Apply the concepts programming skill set in professional development	1
54		PSO1	Forecasting Data Analysis	2
55		PSO2	The students will able to gain the ability to	1

Sl. No.	Gap Identification	Activity Planned to fill the gap	СО	Page 14 of 74 Relevant PO Mapping
1	PO2, PO5, PO12	Quiz	CO1, CO2, CO3, CO4, CO5	PO2, PO5, PO12

CO PO mapping for the events conducted after gap identification

CO BPLCK105	Bloom's Level	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
BPLCK105.1	K4	3	3	2	-	1	1	4-1	1	1	2	j :	1 .	2	1
BPLCK105.2	K4	3	3	2	-	1	1	-	1	1	2		1	2	1
BPLCK105.3	КЗ	3	3	3	-	1	1	à - .:	1	1	2	07. - 1	1	3	1
BPLCK105.4	K4	3	3	3	•	1	1		1	-1	2	[%- , *,	1	3	1
BPLCK105.5	КЗ	3	3	3		7.1	1	: A-	1 -	1	2	27 2 27 4	1-	3	1
BPLCK105 (Before CBS)		3	3	2.6	-	1	1		1	1	2		1	2.6	1
Content Beyond Syllabus (Activity)		- <u>-</u>		1-51-6		2	-		3 - 15.	2	2		2		<u>.</u>
BPLCK105B	144	3	3	2.6		2	11-5	-	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	2	2	-7	2	2.6	2

Signature of Course In-charge

Signature of Module Coordinator

El-realle

Dept. of Mechanical Engg.
K.S. Institute of Technology
Bengalutu - 550 109.

Signature of HOD

Head of the Department Dept. of Mechanical Engg. K.S. Intritute of Technology Sengalutu - 550 109.



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TENTATIVE CALENDAR OF EVENTS: I ODD SEMESTER (2023-2024)
DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

SESSION: SEP 2023 TO JAN 2024

Veek	Month)ay			n-	A Made by	Danastona 4 72.
No.	month	Mon	Tue	Wed	Thu	Fri	Sat	Days	Activities	Department Events
1	SEP	4 *	5	6	7	8	9	6	4* Commencement of I sem	4th - 14th Sep 2023 Induction Programme
2	SEP	11	12	13.	14	15 *)(()b) J#I	5	15*-Commencement of I sem	12-Fire extinguisher education & awareness program. 15-International Day Democracy. 12th to 14th -AIML &ME-Professional development & workplace excellence
3	SEP	18H	19	20	21	22	23	5	18-Varasiddhi Vinayaka Vrata 23-Monday Time Table	21st to 23rd -CSD-Professional development & workplace
4	SEP	25	26	27	28H	29	30	5	28-Eid-Milad 30-Thursday Time Table	
5	ост	2 H	3	4	5	6	71 0) 81	4	2-Gandhi Jayanthi	3rd,4th &6th-CSE-A SECTION-Professional development & workplace excellence
6	ост	9	10	11	12	13	ì4H	5	14- Mahalaya Amavasya	12- Importence of English in Engineering 11th to 13th-CSE-B SECTION-Professional development & workplace excellence
7	ост	16	17	18	19	20	211D H	5		16th to 18th-CSE-C SECTION- Professional development & workplacexcellence
8	ост	23H	24H	25	26	27	28 H	3	23-Mahanavami, Ayudhapooja 24- Vijayadasami 28 - Valmiki Jayanthi	26-Lifestyle and sress management. 26th &27-ECE-F SECTION-Professiona development & workplace excellence
9	OCT/ NOV	30	31	1H	2	3 TA	ADE	4	I-Kannada Rajyothsava	2nd-ECE-F SECTION-Professional development & workplace excellence
10	NOV	6.T1	7 T1	8 T1	9	10 .	11	6	11-Wednesday Time Table	
11	NOV	13	14H	15 BV	16 ASD	17 *FFB1	il8id) iHi	4	14-Balipadyami, Deepavali 17- First Faculty Feed Back	
12	NOV	20	21	22	23	24	25	6	25- Wednesday Time Table	22-Class Committee Meeting-I 24- Talk on chemistry. 25th-ECE-G SECTIO Professional development & workplace
13	NOV/ DEC	27	28	29	30H	l	2001H	4	30- Kanakadasa Jayanti	27-Parent Teacher Meeting-I 27th & 28th-ECE-G SECTION-Professional development & workplace excellence
14	DEC	4	5	6	7	8	9	6	9- Tuesday Time Table	7th to 9th-IOT-Professional development & workplace excellence
15	DEC	11	12	13	14	15	ivold) igi	5		11th to 13th-CCE-Professional development workplace excellence 15-Class Committee Meeting-II
16	DEC	18	19	20	21	22	23 TA	· 6	23- Monday Time Table	22-Parent Teacher Meeting-II
17	DEC	23)H	26 T2	27 T2	28 T2	29 LT	30 LT	5	25- Christmas	
18	JAN	(LI)	2JC/I	3L/I	4 •FFB	5 ASD	(op)et	5	4 -Second Faculty Feed Back 6* - Last Working day	

Total Number of working days (Excluding holidays and Tests)-78

H	Holiday
BV	Blue Book
T1,T2,T	Tests 1,2,3
ASD	Attendance & Sessional Display
DH	Declared Holiday
LT	Lab Test
TA	Test attendance

 Monday
 14

 Tuesday
 14

 Wednesday
 16

 Thursday
 16

 Friday
 17

 Saturday
 1

 Total
 78

Head of the Department

Bept of Science and Humanities

K.S. Institute of Technology

Bennature - 560 109

FRINCIPAL

K.S. INSTITUTE OF TECHNOLOGY

BENOALURU - 560 103



K.S.IN TITUTE OF TECHNOLOGY, BENGALURU-109 TIME -TABLE FOR I SEMESTER (2023-2024) CHEMISTRY CYCLE

Branch: CSE (ICB) Class Teacher Ms. TEJASWINI R

SECTION: H

Lecture Ha	all :OB Seco	nd Floor 20	7					W. F.	:08-01-202
PERIOD	PERIOD 1 2			3	4		5	6	7
TIME/ DAY	8.30 AM - 9.25 AM	9.25 AM - 10.20 AM	10.20 AM - 10.35 AM	10.35 AM - 11.30 AM	11.30 AM - 12.25 PM	12.25 PM- 1.15 PM	1.15 PM - 2.10 PM	2.10 PM - 3.05 PM	3.05 PM - 4.00PM
MON	CHES BCHES102	MATS BMATS101		BEE BESCK104B	KANNADA BKSKK107/ BKBKK107		LIB	LIB	т
TUE	MATS BMATS101	CHES BCHES102	×	PLC BPLCK105B	BEE BESCK104B	¥	CED BCEDK103	CED BCEDK103	Т
WED	PLC BPLCK105B	MATS BMATS101	BREAL	◆ BCE	DK103	BREA	CHES BCHES102	LIB	т
TḤU	BEE BESCK104B	PLC BPLCK105B		CHES BCHES102	MATS BMATS101	LUNCH -	CED BCEDK103	CED BCEDK103	Т
FRI	PLC BPLCK105B	CHES BCHES102		IDT BIDTK158	MATS BMATS101	רח	BEE BESCK104B	ENG BENGK106	LIB

SUBJECT CODE	SUBJECT NAME	FACULTY NAME
BMATS101	Mathematics-I for CSE Stream	Ms.TEJASWINI R
BCHES102	Applied Chemistry for CSE Stream	Dr.HARISHA S
BCEDK103	Computer-Aided Engineering Drawing	Mr.MANJUNATH B R
BESCK104B	Introduction to Electrical Engineering	Mrs. AMRUTHA A
BPLCK105B	Introduction to Python Programming	Mr.ANIL KUMAR A
BENGK106	Communicative English	Mrs.ANURADHA M V
BKSKK107/BKBKK107	Samskrutika Kannada/ Balake Kannada	Mr.THRIMURTHY R
BIDTK158	Innovation and Design Thinking	Dr.SHOBHA G

Head of the Department Dept. of Science Ord Humanities K.S. Institute of Technology Bengaluru - 560 109

PRINCIPAL PAL
PRINCIPAL PAL
RESTRUTE OF TECHNOLOGY
BENGALURU - 550 109

Course Title:	Introduction to	Python Programming		
Course Code:		BPLCK105B/205B	CIE Marks	50
Course Type (Theo /Integrated)	ry/Practical	Integrated	SEE Marks Total Marks	· 50
Teaching Hours/W	eek (L:T:P: S)	2:0:2:0	Exam Hours	03
Total Hours of Peda	agogy	40 hours	Credits	03

Course objectives

- Learn the syntax and semantics of the Python programming language.
- Illustrate the process of structuring the data using lists, tuples
- Appraise the need for working with various documents like Excel, PDF, Word and Others.
- Demonstrate the use of built-in functions to navigate the file system.
- Implement the Object Oriented Programming concepts in Python.

Teaching-Learning Process

These are sample Strategies, which teacher can use to accelerate the attainment of the various course outcomes and make Teaching –Learning more effective

- $1. \quad Use \ \underline{https://pythontutor.com/visualize.html\#mode=edit} \ in \ order \ to \ visualize \ the \ python \ code$
- 2. Demonstrate and visualize basic data types (list, tuple, dictionary).
- 3. Chalk and talk
- 4. online and videos

Module-1 (08 hrs)

Python Basics: Entering Expressions into the Interactive Shell, The Integer, Floating-Point, and String Data Types, String Concatenation and Replication, Storing Values in Variables, Your First Program, Dissecting Your Program, Flow control: Boolean Values, Comparison Operators, Boolean Operators, Mixing Boolean and Comparison Operators, Elements of Flow Control, Program Execution, Flow Control Statements, Importing Modules, Ending a Program Early with sys.exit(), Functions: def Statements with Parameters, Return Values and return Statements, The None Value, Keyword Arguments and print(), Local and Global Scope, The global Statement, Exception Handling, A Short Program: Guess the Number

Textbook 1: Chapters 1-3

Module-2 (08 hrs)

Lists: The List Data Type, Working with Lists, Augmented Assignment Operators, Methods, Example Program: Magic 8 Ball with a List, List-like Types: Strings and Tuples, References,

Dictionaries and Structuring Data: The Dictionary Data Type, Pretty Printing, Using Data Structures to Model Real-World Things,

Textbook 1: Chapters 4-5

Module-3 (08 hrs)

Manipulating Strings: Working with Strings, Useful String Methods, Project: Password Locker, Project: Adding Bullets to Wiki Markup

Reading and Writing Files: Files and File Paths, The os.path Module, The File Reading/Writing Process, Saving Variables with the shelve Module, Saving Variables with the print.format() Function, Project: Generating Random Quiz Files, Project: Multiclipboard,

Textbook 1: Chapters 6, 8

Module-4 (08 hrs)

Organizing Files: The shutil Module, Walking a Directory Tree, Compressing Files with the zipfile Module, Project: Renaming Files with American-Style Dates, Project: Backing Up a Folder into a ZIP File, Dates to European-Style

Debugging: Raising Exceptions, Getting the Traceback as a String, Assertions, Logging, IDLE"s

Textbook 1: Chapters 9-10

Module-5 (08 hrs)

Classes and objects: Programmer-defined types, Attributes, Rectangles, Instances as return

Classes and functions: Time, Pure functions, Modifiers, Prototyping versus planning,

Classes and methods: Object-oriented features, Printing objects, Another example, A more complicated example, Theinit method, The __str__ method, Operator overloading, Type-based dispatch, Polymorphism, Interface and implementation,

Textbook 2: Chapters 15 - 17

Course outcome (Course Skill Set)

At the e	nd of the course the student will be able to:	
004	- see student will be able to:	

CO1	Demonstrate proficiency in handling to
CO2	Demonstrate proficiency in handling loops and creation of functions. Identify the methods to create and metho
CO3	Identify the methods to create and manipulate lists, tuples and dictionaries. Develop programs for string processing and file organization
	Interpret the concepts of Object-Oriented Programming as used in Python.
W	or Coject-Oriented Programming as used in Python.

Programming Exercises:

- 1. a. Develop a program to read the student details like Name, USN, and Marks in three subjects. Display the student details, total marks and percentage with suitable messages.
 - b. Develop a program to read the name and year of birth of a person. Display whether the person is a
- 2. a. Develop a program to generate Fibonacci sequence of length (N). Read N from the console.
 - b. Write a function to calculate factorial of a number. Develop a program to compute binomial
- 3. Read N numbers from the console and create a list. Develop a program to print mean, variance and standard deviation with suitable messages.
- 4. Read a multi-digit number (as chars) from the console. Develop a program to print the frequency of
- 5. Develop a program to print 10 most frequently appearing words in a text file. [Hint: Use dictionary

with distinct words and their frequency of occurrences. Sort the dictionary in the reverse order of frequency and display dictionary slice of first 10 items]

- 6. Develop a program to sort the contents of a text file and write the sorted contents into a separate text file. [Hint: Use string methods strip(), len(), list methods sort(), append(), and file methods open(), readlines(), and write()].
- 7. Develop a program to backing Up a given Folder (Folder in a current working directory) into a ZIP File by using relevant modules and suitable methods.
- 8. Write a function named DivExp which takes TWO parameters a, b and returns a value c (c=a/b). Write suitable assertion for a>0 in function DivExp and raise an exception for when b=0. Develop a suitable program which reads two values from the console and calls a function DivExp.
- 9. Define a function which takes TWO objects representing complex numbers and returns new complex number with a addition of two complex numbers. Define a suitable class 'Complex' to represent the complex number. Develop a program to read N (N >=2) complex numbers and to compute the addition of N complex numbers.
- 10. Develop a program that uses class Student which prompts the user to enter marks in three subjects and calculates total marks, percentage and displays the score card details. [Hint: Use list to store the marks in three subjects and total marks. Use __init__() method to initialize name, USN and the lists to store marks and total, Use getMarks() method to read marks into the list, and display() method to display the score card details.]

Assessment Details (both CIE and SEE)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The minimum passing mark for the CIE is 40% of the maximum marks (20 marks out of 50). The minimum passing mark for the SEE is 35% of the maximum marks (18 marks out of 50). A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/course if the student secures not less than 35% (18 Marks out of 50) in the semester-end examination(SEE), and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together.

Continuous Internal Evaluation (CIE):

The CIE marks for the theory component of the IC shall be 30 marks and for the laboratory component 20 Marks.

CIE for the theory component of the IC

- Three Tests each of 20 Marks; after the completion of the syllabus of 35-40%, 65-70%, and 90-100% respectively.
- Two Assignments/two quizzes/ seminars/one field survey and report presentation/one-course project totaling 20 marks.

Total Marks scored (test + assignments) out of 80 shall be scaled down to 30 marks

CIE for the practical component of the IC

On completion of every experiment/program in the laboratory, the students shall be

evaluated and marks shall be awarded on the same day. The **15 marks** are for conducting the experiment and preparation of the laboratory record, the other **05** marks shall be for the test conducted at the end of the semester.

- The CIE marks awarded in the case of the Practical component shall be based on the
 continuous evaluation of the laboratory report. Each experiment report can be
 evaluated for 10 marks. Marks of all experiments' write-ups are added and scaled
 down to 15 marks.
- The laboratory test (duration 03 hours) at the end of the 15th week of the semester /after completion of all the experiments (whichever is early) shall be conducted for 50 marks and scaled down to 05 marks.

Scaled-down marks of write-up evaluations and tests added will be CIE marks for the laboratory component of IC/IPCC for **20 marks**.

• The minimum marks to be secured in CIE to appear for SEE shall be 12 (40% of maximum marks) in the theory component and 08 (40% of maximum marks) in the practical component. The laboratory component of the IC/IPCC shall be for CIE only. However, in SEE, the questions from the laboratory component shall be included. The maximum of 05 questions is to be set from the practical component of IC/IPCC, the total marks of all questions should not be more than 25 marks.

The theory component of the IC shall be for both CIE and SEE.

Semester End Examination (SEE): SEE for IC

Theory SEE will be conducted by University as per the scheduled time table, with common question papers for the course (duration 03 hours)

- 1. The question paper will have ten questions. Each question is set for 20 marks.
- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub-questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module. The theory portion of the Integrated Course shall be for both CIE and SEE, whereas the practical portion will have a CIE component only. Questions mentioned in the SEE paper shall include questions from the practical component).

Passing standard:

• The minimum marks to be secured in CIE to appear for SEE shall be 12 (40% of maximum marks-30) in the theory component and 08 (40% of maximum marks -20) in the practical component. The laboratory component of the IPCC shall be for CIE only. However, in SEE, the questions from the laboratory component shall be included. The maximum of 04/05 questions to be set from the practical component of IPCC, the total marks of all questions should not be more than 30 marks.

16-2-2023

 SEE will be conducted for 100 marks and students shall secure 35% of the maximum marks to qualify for the SEE. Marks secured will be scaled down to 50.

Suggested Learning Resources:

Text Books

1. Al Sweigart, "Automate the Boring Stuff with Python", 1st Edition, No Starch Press, 2015. (Available under CC-BY-NC-SA license at https://automatetheboringstuff.com/)

(Chapters 1 to 18, except 12) for lambda functions use this https://www.learnbyexample.org/python-lambda-function/

 Allen B. Downey, "Think Python: How to Think Like a Computer Scientist", 2nd Edition, Green Tea Press, 2015. (Available under CC-BY-NC license at http://greenteapress.com/thinkpython2/thinkpython2.pdf

(Chapters 13, 15, 16, 17, 18) (Download pdf/html files from the above link)

Web links and Video Lectures (e-Resources):

- https://www.learnbyexample.org/python/
- https://www.learnpython.org/
- https://pythontutor.com/visualize.html#mode=edit

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

Quizzes for list, tuple, string dictionary slicing operations using below link
 https://github.com/sushantkhara/Data-Structures-And-Algorithms-withPython/raw/main/Python%203%20 %20400%20exercises%20and%20solutions%20for%20beginn
ers.pdf

COs	POs											
	1	2	3	4	5	6	7					
CO1	2.7	-				-	+ '					
CO2	1				7 %		1					
CO3	•	1 1 2	-									
CO4		2.41		1			i s					
CO5					· 5							

Allan

Head of the Department Dept. of Mechanical Engg. K.S. Institute of Technology Bengaluru 5500109





COURSE INCHARGE

: ANILKUMAR A

COURSE CODE/TITLE

: INTEGRATED/BPLCK105B/INTRODUCTION TO PYTHON PROGRAMMING

YEAR/SEMESTER/SECTION: I/I/H

BRANCH

: COMPUTER SCIENCE & ENGINEERING(IOT AND CYBERSECURITY INCLUDING

BLOCKCHAIN TECHNOLOGY)

Sl. No.	Topic to be covered	Mode of Delivery	Teaching Aid	No. of Periods	Cumulative No. of Periods	Proposed Date
	Module 1:	Python Basic	es			
1	Python Basics: Entering Expressions into the Interactive Shell,	L+D,PS	BB/PPT	1	1	15/09/2023
2	The Integer, Floating-Point, and String Data Types,	L+D,PS	BB/PPT	1	2	19/09/2023
3	String Concatenation and Replication, Storing Values in Variables	L+D,PS	BB/PPT	1	3	20/09/2023
4	Your First Program, Dissecting Your Program,	L+D,PS	BB/PPT	1	4	21/09/2023
5	Flow control: Boolean Values, Comparison Operators,	L+D,PS	BB/PPT	1 -	5	22/09/2023
6	Boolean Operators, Mixing Boolean and Comparison Operators	L+D,PS	BB/PPT	1	. 6	26/09/2023
7	Elements of Flow Control, Program Execution,	L+D,PS	BB/PPT	1	7	27/09/2023
8	Flow Control Statements, Importing Modules	L+D, PS	BB/PPT	1	8	29/09/2023
9	Ending a Program Early with sys.exit()	L+D, PS	BB/PPT	1	9	30/09/2023

10	Functions: def Statements with Parameters	L+D, PS	BB/PPT	1	10	03/10/202
11	Return Values and return Statements	L+D, PS	BB/PPT	1	11	04/10/2023
12	The None Value, Keyword Arguments and print(),	L+D, PS	BB/PPT	1	12	05/10/2023
13	Local and Global Scope,	L+D, PS	BB/PPT	1	13	06/10/2023
14	The global Statement	L+D, PS	BB/PPT	1	14	10/10/2023
15	Module 1: Laboratory Experiment a. Develop a program to read the student details like Name, USN, and Marks in three subjects. Display the student details, total marks and percentage with suitable messages b. Develop a program to read the name and year of birth of a person. Display whether the person is a senior citizen or not.	L+D, PS	LCD	LabSession- 2HR	2	19/09/2023 21/09/2023 23/09/2023
16	Exception Handling	L+D, PS	BB/PPT	1	15	11/10/2023
17	A Short Program: Guess the Number	L+D, PS	BB/PPT	1	16	12/10/2023
	Module 2: Lists & Diction	onaries and St	ructuring Data			
18	Module 2:Lists: The List Data Type, Working with Lists	L+D, PS	BB/PPT	1	17	13/10/2023
19	The List Data Type, Working with Lists	L+D, PS	BB/PPT	1	18	17/10/2023
20	The List Data Type, Working with Lists	L+D, PS	BB/PPT	1	19	18/10/2023
21	Augmented Assignment Operators, methods	L+D, PS	BB/PPT	1	20	19/10/2023
22	Example Program: Magic 8 Ball with a List	L+D, PS	BB/PPT	1	21	20/10/2023
23	List-like Types: Strings and Tuples, References	L+D, PS	BB/PPT	1	22	25/10/2023
24	Dictionaries and Structuring Data: The Dictionary Data Type	L+D, PS	BB/PPT	1	23	26/10/2023
25	Module 2: Laboratory Experiment a. Develop a program to generate Fibonacci sequence of length (N). Read N from the console. b. Write a function to calculate factorial of a number. Develop a	L+D, PS	LCD	LabSession- 2HR	2	03/10/2023 05/10/2023 09/10/2023

4	program to compute binomial coefficient (Given N and R).					1
26	Pretty Printing	L+D, PS	BB/PPT	to the		
27	Using Data Structures to Model Real-World Things			1	24	27/10/2023
		L+D, PS	BB/PPT	1	25	31/10/2023
28	Module 3: Manipulating Strin		and Writing Fi	les		
29	Module 3: Manipulating Strings: Working with Strings	L+D, PS	BB/PPT	1	26	02/11/2023
29	Working with Strings, Useful String Methods	L+D, PS	BB/PPT	1	27	03/11/2023
30	INTERNAL ASSE	SSMENT – 1				07/11/2023
31	Working with Strings, Useful String Methods	L+D, PS	BB/PPT	1	28	09/11/2023
32	Project: Password Locker,	L+D, PS	BB/PPT	1	29	10/11/2023
33	Project: Password Locker,	L+D, PS	BB/PPT	1	30	11/11/202
34	Project: Adding Bullets to Wiki Markup	L+D, PS	BB/PPT	1	31	15/11/2023
35	Project: Adding Bullets to Wiki Markup	L+D, PS	BB/PPT	1	32	16/11/202
36	Reading and Writing Files: Files and File Paths	L+D, PS	BB/PPT	1	33	17/11/202
37	The os.path Module	L+D, PS	BB/PPT	1	34	
39	The File Reading/Writing Process	L+D, PS	BB/PPT	1	34	21/11/202
40	Saving Variables with the shelve Module	L+D, PS	BB/PPT	1	36	
41	Module 3: Laboratory Experiment a. Read N numbers from the console and create a list. Develop a program to print mean, variance and standard deviation with suitable messages. b. Read a multi-digit number (as chars) from the console. Develop a program to print the frequency of each digit with suitable message.	L+D, PS	LCD	LabSession- 2HR	4	23/11/202 26/10/202 30/10/202 31/10/202
42	Saving Variables with the print. Format () Function,	L+D, PS	BB/PPT	1	37	24/11/202
43	Project: Generating Random Quiz Files	L+D, PS	BB/PPT	1	38	24/11/202

14	Project: Multiclipboard	L+D, PS	BB/PPT			T
	Module 4: Organiz	ing Files & Da			39	28/11/2023
15	Module 4: Organizing Files: The shutil Module	L+D, PS				
16	Walking a Directory Tree		BB/PPT	1	40	29/11/2023
	Module 4: Laboratory Experiment	L+D, PS	BB/PPT	1	41	01/12/2023
47	 a) Develop a program to print 10 most frequently appearing words in a text file. [Hint: Use dictionary with distinct words and their frequency of occurrences. Sort the dictionary in the reverse order of frequency and display dictionary slice of first 10 items] b) Develop a program to sort the contents of a text file and write the sorted contents into a separate text file. [Hint: Use string methods strip (), len (), list methods sort (), append (), and file methods open (),readlines (), and write ()]. c) Develop a program to backing Up a given Folder (Folder in a current working directory) into a ZIP File by using relevant modules and suitable methods. d) Write a function named DivExp which takes TWO parameters a, b and returns a value c (c=a/b). Write suitable assertion for a>0 in function DivExp and raise an exception for when b=0. Develop a suitable program which reads two values from the console and calls a function DivExp. 	L+D, PS	LCD	LabSession- 2HR	4	20/11/2023 21/11/2023 23/22/2023
48	Compressing Files with the zipfile Module	L+D, PS	BB/PPT	1	42	05/12/2022
49	Project: Renaming Files with American-Style Dates to European-Style Dates,	L+D, PS	BB/PPT	1	43	05/12/2023
50	Project: Renaming Files with American-Style Dates to European- Style Dates,	L+D, PS	BB/PPT	1	44	
51	Project: Backing Up a Folder into a ZIP File,	L+D, PS	BB/PPT	1		07/12/2023
52	Project: Backing Up a Folder into a ZIP File,	L+D, PS	BB/PPT		45	08/12/2023
53	Debugging: Raising Exceptions	L+D, PS		1	46	09/12/2023
54	Getting the Traceback as a String		BB/PPT	1	47	12/12/2023
55	Assertions, Logging, IDLEs Debugger	L+D, PS	BB/PPT	1	48	13/12/2023
-	Logania, IDLES Deougger	L+D, PS	BB/PPT	1	49	14/12/2023

	Module 5: Classes and objects, Classe		1.01			
56	Module 5: Classes and objects, Classes Attributes, Rectangles	L+D, PS	BB/PPT	d methods	50	15/12/2023
57	Instances as return values, Objects are mutable Co.					
58	Classes and functions. Time Day C	L+D, PS	BB/PPT	1	51	19/12/2023
50	51 S -1-0 to plaining	L+D, PS	BB/PPT	1	52	20/12/2023
59	Classes and methods: Object-oriented features	L+D, PS	BB/PPT	1	53	21/12/2023
60	Printing objects, Another example, A more complicated	L+D, PS	BB/PPT	1	54	22/12/2023
61	The init method, Thestr method, Operator overloading, Type-based dispatch, Polymorphism, Interface and implementation	L+D, PS	BB/PPT	1	55	23/12/2023
63	Module 5: Laboratory Experiment a. Define a function which takes TWO objects representing complex numbers and returns new complex number with a addition of two complex numbers. Define a suitable class 'Complex' to represent the complex number. Develop a program to read N (N >=2) complex numbers and to compute the addition of N complex numbers. b. Develop a program that uses class Student which prompts the user to enter marks in three subjects and calculates total marks, percentage and displays the score card details. [Hint: Use list to store the marks in three subjects and total marks. Useinit() method to initialize name, USN and the lists to store marks and total, Use getMarks() method to read marks into the list, and display() method to display the score card details.]	L+D, PS	LCD	LabSession- 2HR	2	04/12/2023 05/12/2023 07/12/2023
	INTERNAL ASS	ESSMENT - 2				27/12/2023
68	Revision	L+D, PS	BB/PPT	1	56	04/01/2024
69	Revision	L+D, PS	BB/PPT	1	57	05/01/2024

Text Books:

- 1. Al Sweigart, "Automate the Boring Stuff with Python", la Edition, No Starch Press, 2015. (Available under CC-BY-NC-SA license at https://automatetheboringstuff.com/)(Chapters 1 to 18, except 12) for lambda functions use this link:https://www.learnbyexample.org/python-
- 2. Allen B. Downey, "Think Python: How to Think Like a Computer Scientist", 2nd Edition, Green Tea Press, 2015. (Available under CC-BY-BY-NC license at http://greenteapress.com/thinkpython2/thinkpython2.pdf (Chapters 13, 15, 16, 17, 18) (Download pdf/html files from the above

Web links and Video Lectures (e-Resources):

- 1. https://www.learnbyexample.org/python/
- 2. https://www.learnpython.org/
- 3. https://pythontutor.com/visualize.html#mode=edit

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

Quizzes for list, tuple, string dictionary slicing operations using below link: https://github.com/sushantkhara/Data-Structures-And-AlgorithmswithPython/raw/main/Python%203%20_%20400%20exercises%20and%20solutions%20for%20beginners.pdf

Details of the teaching aids: Chalk and talk, videos, ppt, animations, NPTEL videos, NPTEL lectures etc.,

Course Incharge

Module coordinator

Head of the Degartment Dept. of Mechanical Engg. K.S. Institute of Technology Bangaluru - 560 109.

PRINCIPAL K.S. INSTITUTE OF TECHNOLOGY

BENGALURU - 560 109.



K. S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

DEPARTMENT OF APPLIED SCIENCE & HUMANITIES 2023 – 24 ODD SEMESTER

	I ASSIGNMENT		the same	
Academic Year	2023-24			
Batch	2023-27			
Year/Semester/section	I/I/H			
Subject Code-Title	BPLCK105B – Introduction to Pytho Programming			
Name of the Course Incharge	Mr Anil Kumar A	Dept	ME	

Assi	gnment No: 1 Total man Date of Submiss	rks:10 ion: 8/1	12/20	23
	of Issue: 1/12/2023 L-Levels: K1-Remebering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluat	ing, K6-	Creat	ing
Q No.	Question	K Level	со	Marks
1	Define and explain the difference between integer, floating-point, and string data types in Python. Provide an example of each and demonstrate how to store them in variables.	К2	1	1
	Discuss the roles of the 'break' and 'continue' statements in loop control,	К2	1	1
	Explain the difference between local and global scope in Python. Provide an example demonstrating a variable in a local scope shadowing a variable in a global scope.	K2	1	1
	Develop a program to read the student details like Name, USN, and Marks in three subjects. Display the student details, total marks and percentage with suitable messages	К3	1	. 1
5	Explain and provide an example for each of the following list methods: append(), insert(), remove(), sort()	К2	2	1
6	Explain how negative indexing works in Python lists. Provide an example demonstrating how to use negative indexing to access items from the end of a list.	К2	2	1
7	Explain the built-in functions in list with examples in Python	K2	2	1
8	Read N numbers from the console and create a list. Develop a program to print mean, variance and standard deviation with suitable messages.	К3	2	1
9	Explain exception handling, and why is it important in programming? Write a Python function that demonstrates how to handle a specific exception.	К2	3	1
10	Explain the following methods with examples i)keys() ii) values() iii) items() in a dictionary	К2	3	1

Signature of Course-incharge

Signature of HOD/MED

Head of the Department
Dept. of Mechanical Engg
K.S. Institute of Technology
Bengaluru 560.109



K. S. INSTITUTE OF TECHNOLOGY, BANGALORE – 560109 DEPARTMENT OF APPLIED SCIENCE & HUMANITIES

2023 – 24 ODD SEMESTER

Academic Year	2023-24		
Batch	2023-27		
Year/Semester/section	I/I/H		
Subject Code-Title	BPLCK105B - Introd Programming	luction to	Python
Name of the Course Incharge	Mr Anil Kumar A	Dept	ме

Date	gnment No: 2 of Issue: 29/12/2023 Levels: K1-Remebering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluati	.i	/1/202	24 .
Q No.	Question	K Level	CO.	Marks
1	Explain the following methods with suitable examples i) upper(), ii) lower(), iii) partition(), iv) join(), v) split()	K2	3	1
2	Explain the concept of file path. Also discuss absolute and relative file paths.	К2	3	1
3	Explain the following file operations in python with suitable examples: i) Copying files and folders ii) Moving files and folders iii) Permanently deleting files and folders	K2	4	1
4	Develop a program to backing up a given folder into a ZIP File using relevant modules & suitable methods.	КЗ	4	1
5	Develop a function named DivExp, which takes two parameters a,b and returns a value C (C=a/b). Write suitable assertion for a>0 in function DivExp and raise an exception for when b=0. Develop a suitable program which reads two values from the console and calls a function DivExp.	K2	4	1
6	List out the benefits of using Logging module with an example.	K2.	4	1
7	Explaininit() andstr() method with example.	К2	5	1
8	Briefly explain the printing of objects with an example.	K2	5	1
9	Define a function which takes TWO objects representing complex numbers and returns new complex number with a addition of two complex numbers. Define a suitable class 'Complex' to represent the complex number. Develop a program to read $N (N \ge 2)$ complex numbers and to compute the addition of N complex numbers.	W2	5	1
10	Develop a program that uses class Student which prompts the user to enter marks in three subjects and calculates total marks, percentage and displays the score card details.	КЗ	5	1

Signature of Course-incharge

Signature of HOD/MED

Head of the Department Dept. of Mechanical Engg. K.S. Institute of Technology Bengaluru 560.109



K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109 FIRST INTERNAL TEST QUESTION PAPER 2023-24 ODD SEMESTER

CTO 4	
SET: A	USN

Degree : B.E

B.E Semester: IOT/CCE - CSE, ECE/ME ~ EEE, ME Course Type / Code:

Branch - Stream : IOT/CCE - CSE, ECE/ME - LEL, Mi

Course Type / Code: Integrated/BPLCK105B Date: 10/11/2023

Course Title: Introduction to Python Programming
Duration: 1 ½ Hr (90 minutes)

Max Marks: 50

Note: Answer ONE full question from each part.

K-Levels: K1-Remebering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	K-Levels: K1-Remebering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evalu Questions	Marks	СО	K- Level
	Module 1	28		
1(a)	Define and explain the difference between integer, floating-point, and string data types in Python. Provide an example of each and demonstrate how to store them in variables.	5	CO1	К2
(b)	Discuss the roles of the 'break' and 'continue' statements in loop control, illustrating their functionality with examples	5	C01	К2
(c)	Develop a program to read the student details like Name, USN, and Marks in three subjects. Display the student details, total marks and percentage with suitable messages	10	CO1	К3
	OR			
2(a)	Explain the difference between local and global scope in Python. Provide an example demonstrating a variable in a local scope shadowing a variable in a global scope.	5	CO1	К2
(b)	Demonstrate with example print(), input(), string concatenation and string replication.	5	CO1	К2
(c)	Develop a program to read the name and year of birth of a person. Display whether the person is a senior citizen or not.	10	C01	КЗ
	Module 2	1	•	
3(a)	Define what a list is in Python and provide an example. How would you access the third element in the list spam= [10, 20, 30, 40]?	5	CO2	К2
(b)	Explain and provide an example for each of the following list methods: append(), insert(), remove(), sort()	5	CO2	К2
(c)	Write a function to calculate factorial of a number. Develop a program to compute binomial coefficient (Given N and R).	10	CO2	КЗ
	OR			
4(a)	Explain what an augmented assignment operator is. Provide an example of how to use the += operator with a list in Python.	5	CO2	K2
(b)	Explain how negative indexing works in Python lists. Provide an example demonstrating how to use negative indexing to access items from the end of a list.	5	CO2	K2
(c)	Read N numbers from the console and create a list. Develop a program to print mean, variance and standard deviation with suitable messages.	10	CO2	К3
	Module 3			1
5(a)	Interpret the mutable and immutable data types in Python. Provide examples of each and explain how references behave differently with these types	5	CO3	K2
(b)	Explain exception handling, and why is it important in programming? Write a Python function that demonstrates how to handle a specific exception.	5	CO3	К2

Page 31 of 74

6(a)	Explain what a reference is in the context of Python programming. How does Python use references when assigning variables or passing arguments to functions?	5	CO3	К2
(b)	Explain the following methods with examples i)keys() ii) values() iii) items() in a dictionary	5	CO3	К2

Name & Signature of Course In charge: CM NAGADUMM)
Name & Signature of
Module Coordinator:

HOD

Principal



K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560107 FIRST INTERNAL TEST 2023-24 ODD SEMESTER

SET-SCHEME AND SOLUTION

SET-A

Degree

B.E

Branch - stream: Course Title

IOT/CCE - CSE, ECE, ME

Introduction to Python Programming

Semester: I

Course Type / Code :Integrated /BPLCK205B

Max Marks : \$50

Q.NO.	POINTS	MARKS
10	Definition of integer, Hoating point, string - (3m) (differences) Examples 2 2m)	SM
(b)	Explanation of break statement with 3 - 25m Example 3 - 25m Explanation of Continue Statement with 3 - 25m example 3 - 25m	(SM)
©	Student details program - 8M) for olp - 2M	LOM
	diff. b/w local and global slope - 2 3m) Example for each 2m	(SM)
	Explanation with example - point () - (M) - input () - (M) - string boutatenation & explanation (Replication	
0	Sanior litizen program _ 5 (3 m) }	LOM
3 @)	Definition of list with example	(M)

		ge 33 of 7
36	Explanation append(), insurt (), remove (), } With example	(SM)
	factorial and binomial G-efficient	lom
4@	Explanation of Augment Assignment operator ? With example 3	t5m
	Explanation of negative induxing -> (2m) example -> (3m)	(M)
(D)	example — 3M	
	program to find mean, variance & Standard - deviation	Lom
, (immutable -= 2.5M]	(F)
	Explanation I take to 1	(SPA)
	Explanation of References in Python 2 2-5 g with example \$ 2.5 g	(SM)
6	Explanation with Example:	
	(i) Values() - 2. M }	
0.9	(iii) items() - 2m	

Course In-charge

Module Coordinator

HOD



K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109 FIRST INTERNAL TEST QUESTION PAPER 2023-24 ODD SEMESTER

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3 K.		12
UL,		D

Degree

USN

Semester:

Branch - Stream :

IOT/CCE - CSE, ECE, ME-EEE, ME Course Type / Code:

Integrated/BPLCK105B 10/11/2023

Course Title: Duration : Introduction to Python Programming 1 1/2 Hr (90 minutes)

Date: Max Marks: 50

Note: Answer ONE full question from each part.

K-Levels: K1-Remebering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.		Questions	Marks	со	K- Level
T	Diagram 41 : 10 0	Module 1			
1(a)	precedence in action	operator precedence in programming and explain Provide examples to demonstrate Python's rules of	5	CO1	К2
(b)	rymon, providing examples	enation and string replication operators function in to illustrate their usage	5	CO1	К2
(c)	Develop a program to read whether the person is a senio	the name and year of birth of a person. Display or citizen or not.	10	CO1	К3
		OR	194		
2(a)	- eise-eiii in Python, including	overview of the control flow statements if, if-else, and if their proper syntax and illustrative examples	5	CO1	К2
	display the result for the follow	read the Richter magnitude value from the user and wing conditions using ifelifelse statement. Information Microearthquakes not felt or rarely felt		2 2 7 -	98
(b)	> 2.0 and < 4.0 \	Very rarely causes damage Damage done to weak buildings			
(5)	> 5.0 and < 6.0	Cause damage to the poorly constructed building Causes damage to well-built structures	5	CO1	K2
	> 7.0 and < 8.0 C > 8.0 and < 9.0 C	Causes damage to most buildings Causes major destruction			
		Causes unbelievable damage			
(c)	N from console	to generate fibonacci sequence of length(N). Read	10	CO1	КЗ
		Module 2			
3(a)	accompanied by examples	n, explain various list methods available in Python, to showcase their usage and functionality	5	CO2	K2
(b)	how to use the - = operator		5	CO2	К2
(c)	Write a function to calcu compute binomial coefficient		10	CO2	КЗ
	Two	OR			
4(a)	Illustrate the use of in and	not in operators in list with suitable examples	5	CO2	K2
(b)	Explain the built-in function	ons in list with examples in Python	5	CO2	K2
(c)	Read N numbers from the mean, variance and standar	console and create a list. Develop a program to prind deviation with suitable messages.	t 10	CO2	K
	Empleis aut () 110 to	Module 3			
5(a)	Explain set () and default	() method in a dictionary	5	CO3	K

(b) Outline the merits of dictionary over list	5	CO3	K2
6(a) Demonstrate a python			
a python program to store data about your friend's hirthday	5	CO3	K2
(b) Explain pretty printing with example	5	CO3	K2

Course In charge:

(M. WACANWING)
Name & Signature of
Module Coordinator:

Principal Silech, of



K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109 FIRST INTERNAL TEST 2023 - 2410 DD SEMESTER Page 36 of 74

ET-SCHEME AND SOLUTION

SET-B

)egree

 $\mathbf{B}.\mathbf{E}$

Semester: I

3ranch - stream:

IOT/CCE – CSE, ECE, ME

Course Type / Code :Integrated /BPLCK205B

Course Title

Introduction to Python Programming

Max Marks : 50

Q.NO.	POINTS	MARKS
10	Explanation of order of Precedence with - example	(CM)
6	String Concatenation with example 3 25x2 String replication with example 3 25x42	
0	Serior citizan program with examples	Lom
20	Explanation with example: (Dit (ii) if-else)2 (iii) if-else-elif)2	(GM)
6	program en nitther & information -	(SM)
0	fibonacci frequency of length (N)	(11M)
30	Various list method (append, inscrit, sort etc) Explanation with example.	(m)
	Explanation of augment Assignment Operation With example (-=)	(TH)
	factorial & Binomial Co-efficient program _ With o/p.	IOM
La	Explanation of in & not in operators in hist with example	

46	Explanation at Built in function in list -= 3M Examples 2M	(TM)
6	mean, Variance & Standard deviation program	
0	Explanation of Set C) method 3 2×2-5 Set default method 3 2×2-5	(SM)
4.0	advantages of dictionary over hist	(5m)
60	Python program to Store data about your friends birthday	(SA)
6	Explanation of Poetly Print fantis with example	
4		1
	어린 사람들은 그는 사람이 나는 주민 사람들이 가장 없었다. 그렇게 되었다면 그렇게 그렇게 그렇게 그렇게 그렇게 되었다면 그렇게	1

Course In-charge

Module bordinator

HOD



K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109 SECOND INTERNAL TEST QUESTION PAPER 2023-24 ODD SEMESTER

Page 38 of 74 SET: A USN

Degree B.E

I Semester

Branch - Stream : Integrated/BPLCK105B IOT/CCE - CSE, ECE, ME Course Type / Code Course Title 27-12-2023 **Introduction to Python Programming** Date

Duration : 50 1 1/2 Hr (90 minutes) Max Marks

Note: Answer ONE full question from each module.

	K-Levels: K1-Remebering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evalu	uating, k	6-Creatii	ng
Q No	Questions	Marks	СО	K- Leve
1(a)	Explain i) isalpha(), ii) isalnum(), iii) isspace(), iv) join() and split() method with examples.	5	CO3	К2
(b)	Explain the concept of file handling. Also explain reading and writing process with suitable example.	5	CO3	К2
	OR	74		
2(a)	Explain the concept of file path. Also discuss absolute and relative file paths.	5	CO3	К2
(b)	Briefly explain saving variables with shelve module.	5	CO3	К2
	Module 4	P. S.		
	Explain the following file operations in python with suitable examples: i) Copying files and folders		l e	
3(a)	ii) Moving files and folders	6	CO4	K2
	iii) Permanently deleting files and folders			
(b)	Develop a program to backing up a given folder into a ZIP File using relevant modules & suitable methods.	7	CO4	К3
(c)	Develop a function named DivExp, which takes two parameters a,b and returns a value C (C=a/b). Write suitable assertion for a>0 in function DivExp and raise an exception for when b=0. Develop a suitable program which reads two values from the console and calls a function DivExp.	7	CO4	К3
4(a)	Briefly explain according and a district the second			2 0
	Briefly explain assertions and raising an exception.	6	CO4	K2
(b)	List out the benefits of using Logging module with an example.	8	CO4	К3
(c)	Develop a program to sort the contents of a text file and write the sorted contents in to a new file.	6	CO4	К3
(a)	Explain init 0 and at 0 at 1 to 1			
	Explaininit() andstr() method with example.	6	CO5	K2
(b)	Explain the concept of copying using copy module with an example.	6	CO5	K2
(c)	Define a class and object. Construct the class called rectangle and initialize it with height=100, width=200, starting point as (x=0 and y=0). Develop a program to display coordinates of center of a rectangle.	8	CO5	К3
(4)	OR			
(a)	Explain the concept of inheritance with an example.	6	CO5	K2
(b)	Briefly explain the printing of objects with an example.	6	CO5	
(c)	Define a function which takes TWO objects representing complex numbers and returns new complex number with a addition of two complex numbers. Define a suitable class 'Complex' to represent the complex number. Develop a program to read N (N >=2) complex numbers and to compute the addition of N complex numbers.	8	CO5	K2
	Adam cod in all i		= 10	

(ADILIZORARA) Name & Signature of Course In charge:

6

1- washur CM-NACADIVINA) Name & Signature of Module Coordinator:

Head of the Department Dept. of Mechanical Engg. K.S. Institute of Technology Bengaluru - 560 109,



K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109 SECOND INTERNAL TEST 2023 – 24 ODD SEMESTER

SET-A

SCHEME AND SOLUTION

Degree

B.E

Semester: I

Branch - stream:

Course Title

IOT/CCE - CSE, ECE, ME

Course Type / Code :Integrated /BPLCK105B

Introduction to Python Programming Max Marks :50

Q.NO.	POINTS	MARKS
(1a)	Examples	5H.
(81)	File Handling Explanation -> &H?	5H
y a s	Rouding & assitting	
(30)	AbsolutePosts Baplamation & Occumple >> 2-517) Robative Posts Caplamation & Cample >> 2-517)	ธศ
(30)	Shewe module Explanation > 2H? Example > 3H?	รห
(30)	Explanation & Example 300 Copying 2M) Explanation & Example 300 Delating 2M Explanation & Example 300 Delating 2M	6П.
(30)	Program with Broper Synton ->	7H.
(30)	Program with Propor Syntax ->	7M·
(49)	Reising an Exception Explanation on in Example >31	6H.
(46)	Explaining different logging levels	817
(4c)	program with Pooper syntax ->	617 .

(50)	Init method Explanation with Example -> 311)	607.
(5b)	Explanation with Example > 311) Copyrige module explanation	6П
(30)	Example	
(50)	Class & Object Defination > 2M? Program with Proper Sympose >> 4MJ	6M.
	Program with Propor Syman -> 4MJ	en e e e e e e e e e e e e e e e e e e
(6a)	Inhoritance Cooplaneation dm?	6H
	Escomple> 4HJ	
(66)	Pointing object with Countle ->	6П
(60)	Pocquem with Pooper Syntage ->	8Ц.
		1,7-2

Course In-charge

HOD

Head of the Department Dept. of Mechanical Engg. K.S. Institute of Technology Bengalutu - 560 109,



K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109 SECOND INTERNAL TEST QUESTION PAPER 2023-24 ODD SEMESTER of 74

SET: B

Degree B.E

Branch - Stream : IOT/CCE - CSE, ECE, ME

Course Title: **Introduction to Python Programming**

Duration 1 1/2 Hr (90 minutes) USN

Semester:

Course Type / Code: Integrated/BPLCK105B

Date: 27-12-2023

Max Marks: 50

Note: Answer ONE full question from each module.

Q No.	Questions	Marks	СО	K- Level
1(a)	iii) partition(), iv) join(), v) split()	5	CO3	K2
(b)	Develop a python program to swap cases of a given string. Input: PyThoN - output :pYtHOn	5	CO3	K2
2(a)	Explain with an example opening a file with open(), reading the content of a file with read() and writing the contents in to a text file with write().	5	CO3	K2
(b)	Explain saving a variable with pprint.pformat().	5	CO3	K2
3(a)	How do your Ci Module 4		000	112
3(a)	How do you copy file and folders using shutil module? Explain in detail.	4	CO4	K2
(b)	contents into a separate text file.	8	CO4	К3
(c)	Explain logging module and debug the factorial of a number program.	8	CO4	K2
4(a)	List out the benefits of compressing a file. With code, explain reading and extracting from a zip file.	6	CO4	К2
(b)	What are Assertions? Write the contents of an assert statement. Explain them with example.	6	CO4	K2
(c)	Develop a program to print 10 most frequently appearing words in a text file.	8	CO4	К3
-	34.11.4		501	
(a)	What is a class? How to define a class? Explain how to initiate class and how the class members are accessed.	6	CO5	K2
(b)	Explain printing objects.	6	CO5	K2
c)	Define a function which takes TWO objects representing complex numbers and returns new complex number with a addition of two complex numbers. Define a suitable class 'Complex' to represent the complex number. Develop a program to read N (N >=2) complex numbers and to compute the addition of N complex numbers.		CO5	К3
, 1	OR OR			
a)]	Define pure functions. Illustrate with an example	6	CO5	K2
)]	Explaininit() andstr() method with example.	6	CO5	K2
, ,,	Develop a program that uses class Student which prompts the user to enter narks in three subjects and calculates total marks, percentage and displays the core card details.	8	CO5	K3

(ANILLOMAR.)
Name & Signature of Course In charge:

Name & Signature of

Module Coordinator:

Head of the Department Dept. of Mechanical Engg. K.S. Institute of Technology Bengaluru - 550 109.



K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109 SECOND INTERNAL TEST 2023 – 24 ODD: SEMESTER

SET-B

SCHEME AND SOLUTION

Degree

B.E

Semester: I

Branch - stream:

IOT/CCE - CSE, ECE, ME

Course Type / Code :Integrated /BPLCK105B

Course Title : Introduction to Python Programming

Max Marks :50

Q.NO.	POINTS	MARKS
(14)	Explanation	377 7 25 17
	examples	SM
(19)	Poogram with Proper Syntax	5H
(20)	opening a file with open c) => 2M) Rocaling a file with scale) => 1M g coditing contents in to a file == 2 8M? Print P sound() Explanation => 2M?	5H 5M
رهای	Example > 3HJ	311
(3:0)	Shutil module Caplamation> &H) Escamples> &H)	\$11
(3P)	Program with Proper Symon ->	718
(30)	logging Caplamation	8M.
(49)	Explanation about zipfile module -> 4MJ Program with Proper Syntax -> 4MJ	6H
(46)	Assection Explanation -> 2M7 Syntax Example -> 3M	6 M
(4c)	Program with Proper Syntable ->	8H .

(60)	Defiretion of class & objects with tell 6H
(80)	Pointing objects with Example -
(sc)	Program onthe Proper Shutor > 8 11.
(6a)	Pore Sunctions Cocomples
(69)	inite) method explanation with example 317. 8+001 method explanation with example 317.
(60)	Program with Proper Syntax > 811.
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Course In-charge

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Head of the Department Dept. of Mechanical Engg. K.S. Institute of Technology Bengalurd - 560 109,



K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109

 $INTRODUCTION\ TO\ PYTHON\ PROGRAMMING (BPLCK105B)_CONSOLIDATE\ MARKS\ SHEET,\ FOR\ 1ST\ SEMESTER-\ 2023-2024\ ACADEMIC\ YEAR$

$\begin{array}{c} \text{COMPUTER SCIENCE \& ENGINEERING (IOT \& CYBER \ SECURITY INCLUDING BLOCK CHAIN TECHNOLOGY)} \\ - \text{CONSOLIDATE MARKS SHEET} \end{array}$

SL. NO.	USN	NAME OF THE STUDENT	IA1	IA2	IA Tota IA (50)	REDU CED (15)	A1	A2	REDU CED TO (10)	(Assign + IA) =25	LAB RECORD + OBSERV ATION (15)	Lab TEST (10)	Total Marks (25)	FINAL AVERA GE (50)
1	1KS23IC001	ADITHI S BHARADWAJ	25	19	44	14	10	10	10	24	15	10	25	49
2	1KS23IC002	ADITYA KUMAR B	19	13	32	10	10	10	10	20	15	10	25	45
3	1KS23IC003	AKHILA P V	09	20	29	09	10	10	10	19	15	06	21	40
4	1KS23IC004	AKSHAY KUMAR G C	10	10	20	06	10	10	10	16	15	07	22	. 38
5	1KS23IC005	AMOGH K N	10	13	23	07	10	10	10	17	15	03	18	35

1				_										
6	1KS23IC006	AMRUTHA R	23	କ	44	14	10	10	10	O ₂₄	15	09	24	48
7	1KS23IC007	AMULYA H	24	19	43	13	10	10	10	23	15	10	25	48
- 8	1KS23IC008	ANUSHREE K N	24	18	42	13	10	10	10	23	15	10	25	48
9	1KS23IC009	ASHIKA A RAO	21	11	33	10	10	10	10	20	15	09	24	44
10	1KS23IC010	ASHWITHA C SHETTY	18	11	29	09	10	10	10	19	15	09	24	43
11	1KS23IC011	BADAREESH P	24	17	41	13	10	10	10	23	15	10	25	48
12	1KS23IC012	BHUVANA S	21	16	37	11	10	10	10	· 21	15	06	21	42
13	1KS23IC013	CHIRAYU GOWDA K	25	20	45	14	10	10	10	24	15	08	23	47
14	1KS23IC014	CS JEEVAN SETTY	22	18	40	12	10	10	10	22	15	10	25	47
15	1KS23IC015	D M YASHASWINI	24	25	49	.15	10	10	10	25	15	10	25	50
16	1KS23IC016	DEEPAK M	21	15	36	11	10	10	10	21	15	10	25	46
17	1KS23IC017	DHANIISHK RAGHAVENDRA PORALALU	15	06	21	07	10	10	10	17	14	02	16	33

/														
18	1KS23IC018	DHANUSH B R	13	କ	23	07	10	10	10	Q_7	15	09	24	41
. 19	1KS23IC019	DHEEMANTH S	13	10	23	07	10	. 10	10	17	15	05	20	37
20	1KS23IC020	FURKHAD AHMED	14	Ó8	22	07	10	10	10	17	15	07	22	30
21	1KS23IC021	HARSHA K R	17	15	32	10	10	10	. 10	20	15	07	22	42
22	1KS23IC022	HARSHITH H Y	07	13	20	06	10	10	10	16	15	08	23	39
23	1KS23IC023	HUSNA FATHIMA	25	25	50	15	10	.10	10	25	15	10	25	50
24	1KS23IC024	MANOHARA K N	13	12	25	08	10	10	10	18	15	05	20	38
25	1KS23IC025	MEKHALA A	23	18	41	13	10	10	10	23	15	10	25	48
26	1KS23IC026	MOHAMMED ALMAN	25	.14	39	12	10	10	10	22	15	06	21	43
27	1KS23IC027	MOHD SHAIF	13	12	25	08	10	10	10	18	15	06	21	39
28	1KS23IC028	MOKSHAGNA CHOWDARY MALLINA	08 .	12	20	06	10	10	10	16	15	.10	25	41
29	1KS23IC029	MONIKA R	24	14	38	12	10	10	10	22	15	06	21	43
30	1KS23IC030	MOULICA CHOWDARY	24	20	44	13	10	. 10	10	23	15	10	25	48

31	1KS23IC031	NAYANA V M	19	ক	33	10	10	10	10	Q_0	15	08	23	43
32	1KS23IC032	NEEHARIKA SHAKTHIVELAN	22	. 19	41	13	10	10	10	23	15	09	. 24	47
33	1KS23IC033	NIKHIL V	08	14	22	07	10	10	10	17	15	05	20	37
34	1KS23IC034	NITHIN KUMAR	09	12	21	07	10	10	10	17	15	03	18	35
35	1KS23IC035	NITHIN NAGAPPA DORALLI	12	09	21	06	10	10	10	16	15	0	15	31
36	1KS23IC036	P NAISHADHA CHOWDARY	17	06	23	07	10	10	10	17	15	06	21	38
37	1KS23IC037	PADIPATI SAI DIVIJA	17	11	28	09	10	10	10	19	15	09	24	43
38	1KS23IC038	PAVAN R P	14	10	24	07	10	10	10	17	15	05	20	37
39	1KS23IC039	POORVI P	16	15	31	10	10	10	10	20	15	08	23	43
· 40	1KS23IC040	PREETHAM KP	23	20	43	13	10	10	10	23	15	08	23	46
41	1KS23IC041	PURAV B	20	14	34	10	10	10	10	20	15	10	25	45
42 .	1KS23IC042	R BHARATH	. 15	10	25	08	10	10	10	18	15	05	20	38
43	1KS23IC043	RITU A JOSHI	19	05	24	07	. 10	10	10	17	15	08	23	40

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44	IKS23IC044	RONALDO EVELYN GONSALVES	19	4) 11	30	09.	10	10	10	19	15	10	25	44
45	1KS23IC045	RUMAISA SYED	21	13	34	10	10	10	10	20	15	08	23	43
46	1KS23IC046	SAGARIKA SUJIL	20	18	38	12	10	10	10	22	15	07	22	44
47	1KS23IC047	SAHANA J	09	17	26	08	10	10	10	18	15	03	18	36
48	1KS23IC048	SATHWIK M	14	20	34	10	10	10	10	20	15	06	21	41
49	1KS23IC049	SATVIK R	09	18	27	09	10	10	10	19	15	08	23	42
50	1KS23IC050	SHAILAJA G S	21	09	30	09	10	10	10	19	15	10	25	44
51	1KS23IC051	SHREEHARSHA K Y	13	15	.28	09	10	10	10	19	15	08	23	42
52	1KS23IC052	SUJITH M	10	10	20	06	10	10	10	16	15	08	23	39
53	1KS23IC053	T M ABHINAV	21	13	34	10	10	10	1Ò .	20	15	.09	24	44
54	1KS23IC054	THARUN A N	11	13	24	0,7	10	. 10	10	17	15	04	19	36
55	1KS23IC055	TRUPTHI J	24	19	43	13	10	10	10	23	15	08	23	46
56	1KS23IC056	V PUNITH	10	10	20	06	10	10 .	10	16	15	05	20	36

1KS23IC057	VASU CHOWDARY	15	Đ)	29	09	10	10	10	O ₁₉	15	. 06	21	40
1KS23IC058	VEDANTH M	25	17	42	13	10	10	10	23	15	08	23	46
1KS23IC059	VINUTHA N	21	15	36	11	10	10	10	21	15	10	25	46
1KS23IC060	YASHAS NAGARAJ	08	13	21	07	10	10	10	17	15	06 .	21	38
1KS23IC061	YOGA LAKSHMI M	22	19	41	13	10	10	10	23	15	10	25	48
1KS23IC062	YUGA S GOWDA	20	19	39	12	10	10	10	22	15	05	20	42
	1KS23IC058 1KS23IC059 1KS23IC060	1KS23IC058 VEDANTH M 1KS23IC059 VINUTHA N 1KS23IC060 YASHAS NAGARAJ 1KS23IC061 YOGA LAKSHMI M	IKS23IC057 CHOWDARY 15 1KS23IC058 VEDANTH M 25 1KS23IC059 VINUTHA N 21 1KS23IC060 YASHAS NAGARAJ 08 1KS23IC061 YOGA LAKSHMI M 22	IKS23IC058 VEDANTH M 25 17 IKS23IC059 VINUTHA N 21 15 IKS23IC060 YASHAS NAGARAJ 08 13 IKS23IC061 YOGA LAKSHMI M 22 19	IKS23IC058 VEDANTH M 25 17 42 IKS23IC059 VINUTHA N 21 15 36 IKS23IC060 YASHAS NAGARAJ 08 13 21 IKS23IC061 YOGA LAKSHMI M 22 19 41	1KS23IC057 CHOWDARY 15 17 29 09 1KS23IC058 VEDANTH M 25 17 42 13 1KS23IC059 VINUTHA N 21 15 36 11 1KS23IC060 YASHAS NAGARAJ 08 13 21 07 1KS23IC061 YOGA LAKSHMI M 22 19 41 13	IKS23IC067 CHOWDARY 15 U. 29 09 10 1KS23IC058 VEDANTH M 25 17 42 13 10 1KS23IC059 VINUTHA N 21 15 36 11 10 1KS23IC060 YASHAS NAGARAJ 08 13 21 07 10 1KS23IC061 YOGA LAKSHMI M 22 19 41 13 10	1KS23IC057 CHOWDARY 15 17 29 09 10 10 1KS23IC058 VEDANTH M 25 17 42 13 10 10 1KS23IC059 VINUTHA N 21 15 36 11 10 10 1KS23IC060 YASHAS NAGARAJ 08 13 21 07 10 10 1KS23IC061 YOGA LAKSHMI M 22 19 41 13 10 10 1KS23IC062 YUGA S COWDA 20 10 20	IKS23IC057 CHOWDARY 15 II 29 09 10 10 10 1KS23IC058 VEDANTH M 25 17 42 13 10 10 10 1KS23IC059 VINUTHA N 21 15 36 11 10 10 10 1KS23IC060 YASHAS NAGARAJ 08 13 21 07 10 10 10 1KS23IC061 YOGA LAKSHMI M 22 19 41 13 10 10 10 1KS23IC062 YUGA S COWDA 20 10 20	188231C057 CHOWDARY 15 17 29 09 10 10 10 19 1KS23IC058 VEDANTH M 25 17 42 13 10 10 10 23 1KS23IC059 VINUTHA N 21 15 36 11 10 10 10 21 1KS23IC060 YASHAS NAGARAJ 08 13 21 07 10 10 10 17 1KS23IC061 YOGA LAKSHMI M 22 19 41 13 10 10 10 23	INSESSICOSY CHOWDARY 15 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	IKS23IC057 CHOWDARY 15 III 29 09 10 10 10 19 15 06 1KS23IC058 VEDANTH M 25 17 42 13 10 10 10 23 15 08 1KS23IC059 VINUTHA N 21 15 36 11 10 10 10 21 15 10 1KS23IC060 YASHAS NAGARAJ 08 13 21 07 10 10 10 17 15 06 1KS23IC061 YOGA LAKSHMI M 22 19 41 13 10 10 10 23 15 10	IKS23IC057 CHOWDARY 15 U. 29 09 10 10 10 19 15 06 21 1KS23IC058 VEDANTH M 25 17 42 13 10 10 10 23 15 08 23 1KS23IC059 VINUTHA N 21 15 36 11 10 10 10 21 15 10 25 1KS23IC060 YASHAS NAGARAJ 08 13 21 07 10 10 10 17 15 06 21 1KS23IC061 YOGA LAKSHMI M 22 19 41 13 10 10 10 23 15 10 25

Signature of Course Incharge

Signature of the HOD/MED

Head of the Department Dept. of Mechanical Engg. K.S. Institute of Technology Bengaluru § 560 109

Branch: IC	Semester: 1
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pranc	h : IC	Semester: 1
Sl NO	. USN	BPLCK105B
1	1KS23IC001	24:(TH), 25 (PR)
2	1KS23IC002	20 (TH), 25 (PR)
3	1KS23IC003	19 (TH), 21 (PR)
4	1KS23IC004	16 (TH), 22 (PR)
5	1KS23IC005	17 (TH), 18 (PR)
6	1KS23IC006	24 (TH), 24 (PR)
7	1KS23IC007	23 (TH), 25 (PR)
8	1KS23IC008	23 (TH), 25 (PR)
- 9	1KS23IC009	20 (TH), 24 (PR)
10	1KS23IC010	19 (TH), 24 (PR)
11	1KS23IC011	23 (TH), 25 (PR)
12	1KS23IC012	21 (TH), 21 (PR)
13	1KS23IC013	24 (TH), 23 (PR)
14	1KS23IC014	22 (TH), 25 (PR)
15	1KS23IC015	25 (TH), 25 (PR)
- 16		21 (TH), 25 (PR)
17		17 (TH), 16 (PR)
18	1KS23IC018	17 (TH), 24 (PR)
19	1KS23IC019	17 (TH), 20 (PR)
20	1KS23IC020	7-0.
21	1KS23IC021	20 (TH), 22 (PR)
22	1KS23IC022	16 (TH), 23 (PR)
23	1KS23IC023	25 (TH), 25 (PR)
24	1KS23IC024	18 (TH), 20 (PR)
25	1KS23IC025	23 (TH), 25 (PR)
26	1KS23ÍC026	22 (TH), 21 (PR)
27	1K\$23IC027	18 (TH), 21 (PR)
28	1KS23IC028	16 (TH), 25 (PR)
29	1KS23IC029	22 (TH), 21 (PR)
30	1KS23IC030	23 (TH), 25 (PR)
31.	1KS23IC031	20 (TH), 23 (PR)
32	1KS23IC032	23 (TH), 24 (PR)
33	1KS23IC033	17 (TH), 20 (PR)
34	1KS23IC034	17 (TH), 18 (PR)
35		16 (TH), 15 (PR)
36	1KS23IC036	17 (TH), 21 (PR)

Sl NO.	USN	BPLCK105B
37	1KS23IC037	19 (TH), 24 (PR)
38	1KS23IC038	17 (TH), 20 (PR)
39	1KS23IC039	20 (TH), 23 (PR)
40	1KS23IC040	23 (TH), 23 (PR)
41	1KS23IC041	
42	1KS23IC042	18 (TH), 20 (PR)
43	1KS23IC043	
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46	1KS23IC046	
47	1KS23IC047	18 (TH), 18 (PR)
48		20 (TH), 21 (PR)
49	1KS23IC049	
50	1KS23IC050	19 (TH), 25 (PR)
51	1KS23IC051	
52	1KS23IC052	
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56	1KS23IC056	
57	1KS23IC057	
58	1KS23IC058	
59	1KS23IC059	
60	1KS23IC060	17 (TH), 21 (PR)
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62	1KS23IC062	22 (TH), 20 (PR)
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K. S. INSTITUTE OF TECHNOLOGY

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109 DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES ACADEMIC YEAR 2023-2024

TIME TABLE FOR REMEDIAL CLASSES

Semester: I SEM (CHEMISTRY CYCLE) Venue: ROOM 204, 205,206,207, 208 Time: 3:00PM - 5:00PM

SI. No	Subject Code	Subject	Days	Name of Faculty	Signature of Faculty
	BMATE101	Mathematics-I for EES Mathematics-I for CSE	20.11.2023& 21.11.2023	Mrs. SNEHA G KULKARNI	@16002
1	BMATS101	Stream	20.11.2023& 21.11.2023	Mrs. TEJ A SWINI R	P Topasies
	BMATM101	Mathematics-I for ME Streams	20.11.2023& 21.11.2023	Mrs. SOWMYARANI C	4.
			20.11.2023& 21.11.2023	Mr. NAVEEN V	Noui
	BCHEE102	Applied Chemistry for EES Stream	22.11.2023& 23.11.2023	Dr. KIRAN KUMAR S R	2
2	BCHES102	Applied Chemistry for CSE Stream	22.11.2023& 23.11.2023	Mrs. SHYLAJA K R	KPC
	BCHEM102	Applied Chemistry for	22.11.2023& 23.11.2023	Mrs. RADHIKA N P	8.
		ME Streams	22.11.2023& 23.11.2023	Dr. HARISH S	SK
	BESCK104B	Introduction to Electrical Engineering	24.11.2023& 25.11.2023	Mrs. RAMYA K R	Samp
3	BESCK104A	Introduction to Civil	24.11.2023& 25.11.2023	Mrs. AMRUTHA A	
		Engineering	24.11.2023& 25.11.2023	Mrs. TEJASWINI M L	101/

				\circ	° 1•
			27.11.2023& 28.11.2023		1-c. (h
4	BPLCK105B	Introduction to Python Programming	27.11.2023& 28.11.2023	Dr. GIRISH T R	of oxallow
		g- amining	27.11.2023& 28.11.2023	Mr. RANGANATH N	444
			27.11.2023& 28.11.2023	Mr. ANIL KUMAR A	R
\(N B		7	- HILLIA	Atto

Time typle coordinator

HOD
Head of the Department
Dept. of Science and Humanities
K.S. Institute of Technology
Bengaluru - 560 109

Principal
PRINCIPAL
K.S. INSTITUTE OF TECHNOLOGY
BENGALURU - 560 109.



↑ K. S. INSTITUTE OF TECHNOLOGY

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

ACADEMIC YEAR 2023-2024

TIME TABLE FOR REMEDIAL CLASSES

Semester: I SEM (CHEMISTRY CYCLE) Venue: ROOM 204, 205,206,207, 208 Time: 3:00PM – 5:00PM

Sl. No	Subject Code	Subject	Days	Name of Faculty	Signature of Faculty
	BMATE101	Mathematics-I for EES	04.01.2024	Mrs. SNEHA G KULKARNI	@lbos-
1	BMATS101	Mathematics-I for CSE - Stream	04.01.2024	Mrs. TEJ A SWINI R	2 Tyanulas
	BMATM101	Mathematics-I for ME	04.01.2024	Mrs. SOWMYARANI C	-
		Streams	04.01.2024	Mr. NAVEEN V	Nam
2	BCHEE102	Applied Chemistry for EES Stream	05.01.2024	Dr. KIRAN KUMAR S R	8
. 2	BCHES102	Applied Chemistry for CSE Stream	05.01.2024	Mrs. SHYLAJA K R	<u>xes</u>
	BCHEM102	Applied Chemistry for	05.01.2024	Mrs. RADHIKA N P	₩.
		ME Streams	05.01.2024	Dr. HARISH S	HY
	DESCRIPTE.	Introduction to	08.01.2024	Mrs. RAMYA K R	Jan-1
.3	BESCK104B BESCK104A		08.01.2024	Mrs. AMRUTHA A	
	223311047	Engineering	08.01.2024	Mrs. TEJASWINI M L	19

			09.01.2024	Mr. NAGABHUSHANA	1- 1- 10 cm SI
4	BPLCK105B	Introduction to Python	09.01.2024	Dr. GIRISH T R	Live
		Programming	09.01.2024	Mr. RANGANATH N	R
			09.01.2024	Mr. ANIL KUMAR A	Ht2

Time able coordinator

Head of the Departme.

Dept. of Science and Humanitie
K.S. Institute of Technology
Bengaluru - 560 109

PRINCIPAL PRINCIPAL K.S. INSTITUTE OF TECHNOLOGY BENGALURU - 560 '69.



S. INSTITUTE OF TECHNOLOGY #14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

2023-24 ODD SEMESTER

List of students who are identified as slow learners and their marks in every internal

Course and Course Code: Introduction to Python Programming (BPLCK105B)

Branch: COMPLITED SCIENCE A Transport

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SI No.	USN	NAME	First Test Marks	Ren	nedial Class Da &Attendance	ates	mproveme	Second Test	Remed	ial Class I Attendance	Dates	mprovemen Test Marks	Improve ment
-			(25)	27-11- 2023	28-11-2023	<u>-</u> 1	nt Test Marks (25)	Marks (25)	01-01-2024			(25)	Test Marks (25)
1	1KS23IC022	HARSHITH H Y	07	P ELLOST	P	3 -		13	P	-	-		
2	1KS23IC028	MOKSHAGNA CHOWDARY MALLINA	08	АВ	P	·-		. 12	P		7	Control of	
3	1KS23IC033	NIKHIL V	.08	Р.	P			14	P	43	6	S = 57 / S	
4	1KS23IC034	NITHIN KUMAR	09	AB	P	•		. 12	P	-			
. 5	1KS23IC035	NITHIN NAGAPPA DORALLI	12	P	AB			09	P	· ·	-		10 20 10 10 10 10 10 10 10 10 10 10 10 10 10
.·6	1KS23IC047	SAHANA J	09	. P	Р.	-		17	P				

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1	7	1KS23IC049	SATVIK R	09	AB	AB	- 20	18	AB	-				
	8	1KS23IC052	SUJITH M	10	AB	P		10	P	-	-			
	9	1KS23IC054	THARUN A N	11	P	Р .		13	P				-	
	10	1KS23IC056	V PUNITH	10	AB	Р		10	P			* 3		
	11	1KS23IC060	YASHAS NAGARAJ	08	P	P		 13	P			\$		

Course Incharge Name & Signature

HOD

Head of the Department Dept. of Mechanical Engg. K.S. Institute of Technology Bengaluru 5560 109



K S INSTITUTE OF TECHNOLOGY, BANGALORDE 58 of 74

DEPARTMENT OF MECHANICAL ENGINEERING

Introduction to Python Programming (BPLCK105B)

Question Bank

SL NO	Questions	Marks	Year
	Module - 1		٠.
1	Explain the string concatenation and string replication operator with an example	5	Aug 2021
2	Illustrate the use of break and continue with an example	5	Aug 2021
3	With the flow chart, explain the flow control statements while, for and elif. Write a python program to check whether the given number is positive, negative or zero	. 10	Aug 2021
4	What are functions? Define python function with parameters and return statement. Write a python function to generate the factorial of a number	7	Aug 2021
5	Explain local and global scope with suitable example	. 5	Aug 2021
6	Define exception handling? How exceptions are handled in python? Write a program to solve divide by zero exception	12	Aug 2021
7	What is dictionary? How it differ from list? Write a program to count the number of occurrences of each character in string	8	Aug 2021
8	Explain computer hardware architecture with a neat diagram	5	Aug 2022
9	Explain in details the building blocks of a program, state the need for functions in python	5	Aug 2022
10	Explain syntax errors, logic errors and semantic errors. List out the differences between compiler and interpreter	6	Aug 2022
11	Explain keywords, variable names with rules, operators, operands and order of operations in python with examples	8	Aug 2022
12	List the salient features of python programming language.	6	Aug 2022
13	List and explain the syntax of all flow control statements with example	8	Aug 2022
14	Write a python program to calculate the area of acircle, rectangular and triangle. print the result	6	Aug 2022
15	Module - 2		
15	What is list? Explain the concept of list slicing with example	6	Aug 2022
16	Write a python program to calculate the area and circumference of a circle input the value of radius and print the results	6	Mar 2022
17	Explain with example code snippets, different syntax range() function in python	6	Mar 2022
18	List and define the use of comparison operator in python. write the output for the following expression in python: i) 2**3 ii) 20%6 iii) 20//6	6	Mar 2022
19	What is a list? Explain the methods that are used to delete items from the list	8	Ma-2022
20	What is a program? Explain the building blocks of program		Mar 2022
21	What is the need for rules of precedence? Martin	8	Mar 2022
- 1	precedence in python. Solve the expression	8	Mar 2022

	3/2*4+3+(10/4)**3-2		
22	Write a program to take a sentence as input and display the		Page
	longest word in the given sentence	. 8	Mar 2022
23	What is user defined function? Write a function to check if a	0	14 2000
	given number is a prime or not	8	Mar 2022
	How is the dictionary different from list? Assume a dictionary containing city and population as key and value respectively.		
24	Write a program to traverse the dictionary and display most	6	Mar 2022
	populous city		1,141 2022
25	Write a program to create a list of number and display the count	•	
23	of even and odd numbers in the list	6	Mar 2022
	If S = 'Hello World', explain and write the output of the		
26	Tonowing statements:	6	Mar 2022
	i)S[1:5] ii) S[:5].iii) S[3:-1] iv) S[:]		
27	Write a python program that accepts a sentence and find the	7	· A 2022
	indifficer of words, digits, uppercase letters and lower-case letters	1	Aug 2022
28	Write a python program to swap cases of a given string: Input: Java		
	Output: jAVA	4	Aug 2022
20	List out all the useful string methods which supports in python.		
29	Explain with an example for each method	10	Aug 2022
30	What is list? Explain append (), insert () and remove () methods		
30	with examples	8	Aug 2021
31	How is tuple different from a list and which function is used to		
	convert list to tuple	5	Feb 2021
32	Define tuple data type? List out the differences between tuple		4 0001
	and list. Create a list of even numbers and convert it into a tuple	6	Aug 2021
33	Explain negative indexing, slicing, index (), append (), insert ()	12	Aug 2021
	and sort() method with suitable example Write a program to count how many times and left		71ug 2021
34	Write a program to count how many times each letter appears in a word	.7	Feb 2021
	Write a program to read numbers repeatedly until the user enters		•
35	done'. Once 'done' is entered print out total, count and average	6	Feb 2021
	of the numbers		1 00 2021
	Module - 3		
36	Explain File Reading/writing process with suitable python		
50	programs	6	Aug 2022
37	How do we specify and handle absolute relative path?	8	Aug 2022
	What is the difference between OS and OS.path modules?		8-0
38	Discuss the following four methods of OS module:		
£1.	i) Chdir() ii) walk() iii)list iv) getcwd() v) listdir()		
39	Discuss get(), item(), keys() and values() dictionary methods in	8	Feb 2021
	python with examples		160 2021
40	With example code explain join() and split() string methods	6	Feb 2021
	Write a python code segment to read a string and count the		N. 2022
41	number of times each alphabet spears in the string using	8	Mar 2022 (2015 scheme)
-	dictionary. Also indicate the output of the code segment	,	(2015 scheme)
42	What is dictionary? How it differ from the list? Write a		
42	program to count the number of occurrences of each	•	1
	character in a string	of the ve	
43	Define tuple datatype? List out the differences b/w tuple	_	
	and list.		, + , = = :
4.4	Write the output of the following		0.00000
44	i) 'Hello'.upper.isupper()		
1 12	ii) 'Hello'.upper().lower()	i,	

	iii) '-'.join('There can be only one.'.split())		Page 6	60 of 74
45	Explain setdefault () and update() methods with suitable examples and explain how setdefault() differ from update() method.	-	2 - 9 -	
46	Explain the references in python with suitable example	-	-1.	
47	Write a python program to create a folder PYTHON and under the hierarchy 3 files. file1, file2 and file3. Write the content in file1 as "VTU" and in file2 as "UNIVERSITY"	6	Aug 2022	
	and file3 content should be opening and merge of file1 and file2. Check out the necessary condition before write file3			
55.4	Module 4 and 5		1 4 201	
48	What is class? How do we define a class in Python? How to instantiate the class and how class members are accessed?	8	Aug 2022	
49	Write a python program that uses datetime module within a class, takes a birthday as input and print users age and the number of days, hours, minutes and seconds until their next birthday	7	Aug 2022	
50	Illustrate the concept of inheritance with example	6	Aug 2022	
51	Illustrate the concept of modifier with Python code	5	Aug 2022	
52	Explain the following file operations in python with suitable examples: i) Copying files and folders ii) Moving files and folders	. 6	Mar 2022	
	iii) Permanently deleting files and folders			
53	With code snippets, explain reading, extracting and creating ZIP files in python	6 .	Mar 2022	
54	List out the difference between shutil.copy() and shutil.copytree() method. Explain in brief move, rename is deleting files and folders in shutil module with example	7	 Mar 2022	
55	Explain functions of shutil module with examples	8	Feb 2021	1 .
56	What is class, object, attributes. Explain copy-copy() with an example	6	Feb 2021	
57	Demonstrate pure functions and modifiers with examples	8	Feb 2021]
58	Explain Polymorphism in python in detail with examples	8	Aug 2022	1
59	Explaininit method andstr method? Write a str method for the point class. Create a point object and print it	8	Aug 2022	
60	What are classes and objects in python? Explain attributes and object diagram with an example	. 8	Aug 2022] .
61	Write a python program that uses datetime module within a class, takes a birthday as input and print users age and the number of days, hours, minutes and seconds until their next birthday	7	Aug 2022	
62	What is a pure function? Explain with an example	6	Feb 2021	
63	Write a note on operator overloading and polymorphism with an example	8	Feb 2021	
64	Write a function called print time that takes a time object and print it in the form hour:minute:second	4	Feb 2021	
65	Define a class for rectangle and write a function called area – rectangle that takes a rectangle object as argument		Mar 2022	

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	and calculates the area. Explain the code segments			
	Define a class named appointment and define a function:		Page	
66	date, time	4	Mar 2022	
67	Explain the need for INIT method. Demonstrate the use of init method for a class time	6	Mar 2022	
68	Explainstrmethod and operator overloading with example	6	Mar 2022	
69	Write a Python program to add and multiply two complex number objects using operator overloading concepts	6	Mar 2022	
70	Discuss type – based dispatch in a python	6	Mar 2022	
71	Explain classes and attributes in python language with examples	5	Sept 2020	
72	Write a program that uses class to store the name and marks of students. Use list to store the marks in three subjects	6	Sept 2020	
73	Explain initialization method with example	4	Sept 2020	
74	Write a class rectangle that has attributes length and breadth and a method area which returns the area of the rectangle	6	Sept 2020	
75	What is operator overloading? Write python code to overload "+" "-" and "*" operator by providing the methodsadd,_subandmul	6	Sept 2020	
	Lab Programs		• ,	
1	Develop a program to read the student details like Name, USN, and Marks in three subjects. Display the student details, total marks and percentage with suitable messages.	Lab p	rogram	
2	person. Display whether the person is a senior citizen or not	Lab p	rogram	
3	(N). Read N from the console	Lab program Lab program		
4	Write a function to calculate factorial of a number. Develop a program to compute binomial coefficient (Given N and R)		rogram	
5	program to print mean, variance and standard deviation with suitable message		rogram	
6	Read a multi-digit number (as chars) from the console. Develop a program to print the frequency of each digit with suitable message.	Lab P	rogram .	
7	Develop a program to print 10 most frequently appearing words in a text file. [Hint: Use dictionary with distinct words and their frequency of occurrences. Sort the dictionary in the reverse order of frequency and display dictionary slice of first 10 items]	Lab P	rogram	
8	the sorted contents into a separate text file. [Hint: Use string methods strip(), len(), list methods sort(), append(), and file methods open(), readlines(), and write()]	Lab P	rogram	
9	Develop a program to backing Up a given Folder (Folder in a current working directory) into a ZIP File by using relevant modules and suitable methods.	· Lab P	rogram	
10	Write a function named DivExp which takes TWO parameters a, b and returns a value c (c=a/b). Write suitable assertion for a>0 in function DivExp and raise an exception for when b=0.	Lab P	rogram	

	Develop a suitable program which reads two values from the console and calls a function DivExp.	
11	Define a function which takes TWO objects representing complex numbers and returns new complex number with a addition of two complex numbers. Define a suitable class 'Complex' to represent the complex number. Develop a program to read N (N >=2) complex numbers and to compute the addition of N complex numbers.	Page 62 of 74 Lab Program
12	Develop a program that uses class Student which prompts the user to enter marks in three subjects and calculates total marks, percentage and displays the score card details. [Hint: Use list to store the marks in three subjects and total marks. Useinit() method to initialize name, USN and the lists to store marks and total, Use getMarks() method to read marks into the list, and display() method to display the score card details.]	Lab Program

A Marie

Head of the Department Dept. of Mechanical Engg. K.S. Institute of Technology Bengaluru \$560,109

CBCS SCHEME

view		BPLCK105B/BPLCKB105
USN.	1 1 .	

First Semester B.E./B.Tech. Degree Examination, Jan./Feb. 2023 Introduction to Python Programming

Time: 3 hrs. Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M: Marks, L: Bloom's level, C: Course outcomes.

		Module – 1	M	L	С
Q.1	a.	What is the need for role of precedence? Illustrate the rules of precedence in Python with example.	6	L2	CO1
	b.	Explain the local and global scope with suitable examples.	6	L2	CO1
	c.	Develop a program to generate Fibonacci sequence of length (N). Read N from the console.	8	L3	COI
		OR			
Q.2	a.	What are functions? Explain Python function with parameters and return statements.	7	L2	COI
14.4	b.	Define exception handling. How exceptions are handled in python? Write a program to solve divide by zero exception.	7	L2	COI
	c.	Develop a python program to calculate the area of rectangle and triangle print the result.	6	L3	CO1
		Module – 2	10.50		
Q.3	a.	Explain negative indexing, slicing, index(), append(), remove(), pop(), insert() and sort() with suitable example.	8	L2	CO2
. N	b.	Explain the use of in and not in operators in list with suitable examples.	6	L2	CO2
	c.	Develop a program to find mean, variance and standard deviation.	6	L3	CO2
		OR			
Q.4	a.	Explain the following methods in lists with an examples: i) len() ii) sum() iii) max() iv) min().	8	L2	CO2
1	b.	Explain set() and setdefault() method in a dictionary.	6	L2	CO2
•	c.	Develop a Python program to swap cases of a given string input: Java output: jAVA.	6	L3	CO2
		Module – 3	1000		
Q.5	a.	Explain join() and split() method with examples.	8	L2	CO3
	b.	Explain with examples: i) isalpha() ii) isalnum() iii) isspace().	6	L2	CO3
14.	c.	Develop a python code to determine whether the given string is a palindrome or not a palindrome.	6	L3	CO3

BPLCK105B/BPLCKB105

		OR			
Q.6	a.	Explain the concept of file handling. Also explain reading and writing process with suitable example.	8	L2	CO3
	b.	Explain the concept of file path. Also discuss absolute and relative file path.	6	L2	CO3
	c.	Briefly explain saving variables with shelve module.	6	L3	CO3
1	1	Module – 4			
Q.7	a.	Explain the following file operations in Python with suitable example: i) Copying files and folders ii) Moving files and folders iii) Permanently deleting files and folders.	6	L2	CO3
	b.	List out the benefits of compressing file? Also explain reading of a zip file with an example.	8	L2	CO3
	c.	List out the differences between shutil.copy() and shutil.copytree() method.	6	L3	CO3
		OR		L	-
Q.8	a.	Briefly explain assertions and raising a exception.	6	L2	CO3
	b.	List out the benefits of using logging module with an example.	6	L2	CO3
45	c.	Develop a program with a function named DivExp which takes two parameters a, b and returns a value $C(C = a/b)$. Write suitable assertion for $a > 0$ in function DivExp and raise an exception for when $b = 0$. Develop a suitable program which reads two values from the console and calls a function DivExp.	8	L3	CO3
		Module – 5		-	
Q.9	a.	Define a class and object, construct the class called rectangle and initialize it with height = 100, width = 200, starting point as $(x = 0, y = 0)$. Write a program to display the center point co-ordinates of a rectangle.	8	L2	CO4
	b.	Explain the concept of copying using copy module with an example.	6	L2	CO4
	c,	Explain the concept of inheritance with an example.	6	L2	CO4
		OR			
Q.10	a.	Define a function which takes two objects representing complex numbers and returns new complex number with a addition of two complex numbers. Define a suitable class 'Complex' to represent the complex number. Develop a program to read $N(N > = 2)$ complex numbers and to compute the addition of N complex numbers.	8	L2	CO4
	b.	Explaininit() andstr() method with examples.	6	L2	CO4
	c.	Briefly explain the printing of objects with an examples.	6	L2	CO4

CBCS SCHEME

BPLCK205B/BPLCKB205

Second Semester B.E./B.Tech. Degree Examination, June/July 2023 Introduction to Python Programming

Time: 3 hrs.

Max. Marks: 100

Note: I. Answer any FIVE full questions, choosing ONE full question from each module.

2. M: Marks, L: Bloom's level, C: Course outcomes.

Q.1		Module – 1	M	L	С
Q.I	а.	Demonstrate with example print (), input () and string replication.	6	L3	COI
	b.	Develop a program to generate Fibonacci square of length (N). Read N from the console.	6	L3	COI
****	c.	Explain elif, for, while, break and continue statements in python with examples for each.	8	L2	CO1
100		OR'		-	
Q.2	a.	What are user defined functions? How can we pass parameters in user defined functions? Explain with suitable example.	-5	L1	CO1
*, 12,	b. Develop a program to generate Fibonacci square of length (N). Read N from the console. c. Explain elif, for , while , break and continue statements in python with examples for each. OR a. What are user defined functions? How can we pass parameters in user defined functions? Explain with suitable example. b. Explain Local and Global scope with variables for each. c. Develop a program to read the name and year of birth of a person. Print whether the person is a senior citizen or not. Module -2 3. a. What is a List? Explain append (), insert () and remove () methods with examples: i) keys () ii) values () iii) items () in a dictionary. OR 4. a. How is tuple different from a list and which function is used to convert list to tuple? Explain. b. List the merits of dictionary over list. c. Read N numbers from the console and create a list. Develop a program to compute and print mean, variance and standard deviation with messages. Module -3 Explain the following methods with suitable examples: i) upper () ii) lower () iii) is_upper () iv) is_lower () b. Illustrate with example opening of a file with open () function, reading the		8	L2	CO1
1 4	c.	Develop a program to read the name and year of birth of a person. Print whether the person is a senior citizen or not.	7	L3	COI
		Module – 2			
Q.3	a.	What is a List? Explain append (), insert () and remove () methods with examples.	8	.L2	CO2
. 4	b.		12	L2	CO2
		OR		, i	
Q.4	a.	How is tuple different from a list and which function is used to convert list to tuple? Explain.	6	L2	CO2
	b.		4	L1	CO2
•	c.	Read N numbers from the console and create a list. Develop a program to compute and print mean, variance and standard deviation with messages.	10	L3	CO2
Q.5	a.	Explain the following methods with suitable examples: i) upper() ii) lower() iii) is_upper() iv) is_lower()	8	L2	CO3
	b. ·	Illustrate with example opening of a file with open () function, reading the contents of the file with read () and writing to files with write ().	12	L2	CO3
		l of 2			75995

	BPLCK205B			
	RPI CK205D			
	B1 ECR203B/	BPI	LCK	B205
	OR			
a.	10	L2	CO3	
b.	Develop a program to sort the contents of a text file and write the sorted contents into a separate text file. [Use strip (), len (), list methods sort (), append and file methods open (), readlines () and write ()].	10	L3	CO3
	Module – 4			-
а.		6	L2	-CO3
b.	What are Assertions? Write the contents of an assert statement. Explain them with examples.	8	L2	CO3
c.	Illustrate the logging levels in python.	6	L2	CO3
	OR		41-7	18-52
a.	With suitable code, explain Backing up a Folder into a Zip file. Clearly mention the steps involved.	12	L2	CO3
b.	Explain the logging module and debug the factorial of number program.	8	L3	CO3
	Module – 5			L
a.	What is a Class? How to define class in Python? How to initiate a class and how the class members are accessed?	8	L2	CO4
b.	Define Pure function. Illustrate with an example Python program.	8	L3	CO4
c.	Explain Printing objects.	4	L1	CO4
_	OR			
a.	What is Polymorphism? Demonstrate polymorphism with functions to find histogram to count the numbers of times each letters appears in a word and in sentence.	10	L3	CO4
b.	Write Deck methods to add, remove shuffle and sort cards, with illustrating the problem.	10	L2	CO4
	a. b. c. a. a.	 a. Explain the steps involved in adding bullets to Wiki – Markup. Support with appropriate code. b. Develop a program to sort the contents of a text file and write the sorted contents into a separate text file. [Use strip (), len (), list methods sort (), append and file methods open (), readlines () and write ()]. Module – 4 a. How do you copy files and folders using Shutil module? Explain in detail. b. What are Assertions? Write the contents of an assert statement. Explain them with examples. c. Illustrate the logging levels in python. OR a. With suitable code, explain Backing up a Folder into a Zip file. Clearly mention the steps involved. b. Explain the logging module and debug the factorial of number program. Module – 5 a. What is a Class? How to define class in Python? How to initiate a class and how the class members are accessed? b. Define Pure function. Illustrate with an example Python program. c. Explain Printing objects. OR a. What is Polymorphism? Demonstrate polymorphism with functions to find histogram to count the numbers of times each letters appears in a word and in sentence. b. Write Deck methods to add, remove shuffle and sort cards, with illustrating 	a. Explain the steps involved in adding bullets to Wiki – Markup. Support with appropriate code. b. Develop a program to sort the contents of a text file and write the sorted contents into a separate text file. [Use strip (), len (), list methods sort (), append and file methods open (), readlines () and write ()]. Module – 4 a. How do you copy files and folders using Shutil module? Explain in detail. b. What are Assertions? Write the contents of an assert statement. Explain them with examples. c. Illustrate the logging levels in python. OR a. With suitable code, explain Backing up a Folder into a Zip file. Clearly mention the steps involved. b. Explain the logging module and debug the factorial of number program. Module – 5 a. What is a Class? How to define class in Python? How to initiate a class and how the class members are accessed? b. Define Pure function. Illustrate with an example Python program. 8 c. Explain Printing objects. OR a. What is Polymorphism? Demonstrate polymorphism with functions to find histogram to count the numbers of times each letters appears in a word and in sentence. b. Write Deck methods to add, remove shuffle and sort cards, with illustrating 10	a. Explain the steps involved in adding bullets to Wiki – Markup. Support with appropriate code. b. Develop a program to sort the contents of a text file and write the sorted contents into a separate text file. [Use strip (), len (), list methods sort (), append and file methods open (), readlines () and write ()]. Module – 4 a. How do you copy files and folders using Shutil module? Explain in detail. b. What are Assertions? Write the contents of an assert statement. Explain them with examples. c. Illustrate the logging levels in python. OR a. With suitable code, explain Backing up a Folder into a Zip file. Clearly mention the steps involved. b. Explain the logging module and debug the factorial of number program. Module – 5 a. What is a Class? How to define class in Python? How to initiate a class and how the class members are accessed? b. Define Pure function. Illustrate with an example Python program. 8 L3 c. Explain Printing objects. 4 L1 Nor OR a. What is Polymorphism? Demonstrate polymorphism with functions to find histogram to count the numbers of times each letters appears in a word and in sentence. b. Write Deck methods to add, remove shuffle and sort cards, with illustrating.

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K.S.INSTITUTE OF TECHNOLOGY, BANGALORE. FIRST FACULTY FEED BACK REPORT 2023-2024(ODD SEM) Subject:INTRODUCTION TO PYTHON PROGRAMMING (BPLCK105B)

Staff:Mr.ANIL KUMAR A

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- 1.Effective planning & organization of lecture by faculty
- 2. Ability of faculty to teach effectively using OFFLINE portal.
- 3. Subject knowledge of the faculty
- 4. Effective distribution of study materials

- 6. Syllabus coverage by the faculty
- 7. Test question paper setting, Evaluation of Test and Assignments
- 8. Effectiveness in conduction of teaching pedagogy activities
- 9. Interaction of faculty with students
- 10. Punctuality in taking classes

5. Commu	e distribution of : nication skills of	study material	S Nacibu of comp	nunication		9. interaction 10. Punctualit	y in taking cla					
Si no				Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
	SEM	Section	Q1 10	10	10	10	10	10	7	8	9	9
1	1	н	10	10	10	10	10	10	10	10	10	10
2	1	H	10	10	10	10	10	10	10	10	10	10
3	1	H	10	10	10	10	10	10	10	10	10	10
4	- 1		10	10	10	10	10	10	10	10	10	10
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39		н	10	10	10	10	10	10	10 9	10 8	10	8
40		Н	10	10	10	8	10	10		10	9	10
41		Н	10	10	10	10	10	10	10 10	10	10	10
42		Н	10	10	10	10	10	10	10	10	10	10
43		н	10	10	10	10	10	10	10	10	10	10
45		н	10	10	10	10	10	10	10	10	10	10
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52		н	10	10	10	10	10	10	10	10	10	10
53		н	10	10	10	10	10	10	10	10	10	10
54		н	10	10	10	10	10	10	10	10	10	10
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56		Н	10	10	10	10	10	10	10	10	10	10
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58		Н	5	5	5	. 5	5	5	5	5	5	5
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Tot	al Number of s	tudents =59	579	581	582	577	581	582	576	578 ·	570	579
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Head of the Department Dept. of Mechanical Engg. K.S. Institute of Technology Bengaluru 5560 109

K.S.INSTITUTE OF TECHNOLOGY, BANGALORE. SECOND FACULTY FEED BACK REPORT 2023-2024(ODD SEM) Subject:INTRODUCTION TO PYTHON PROGRAMMING (BPLCK105B)

Staff:Mr.ANIL KUMAR A

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- 1.Effective planning & organization of lecture by faculty
- 2. Ability of faculty to teach effectively using OFFLINE portal.
- 3. Subject knowledge of the faculty
- 4. Effective distribution of study materials

- 6. Syllabus coverage by the faculty
- 7. Test question paper setting, Evaluation of Test and Assignments
- 8. Effectiveness in conduction of teaching pedagogy activities
- 9. Interaction of faculty with students
- 10. Punctuality in taking classes

Communic	cation skills of	study materia the faculty &	clarity of con	nmunication		10. Punctual	ity in taking cl	asses			•	
SI no	SEM	Section	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q1
1	1	н	10	10	10	10	10	10	10	10	10	10
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3	1	Н	10	10	10	10	10	10	10	10	10	10
4	1	н	10	10	10	10	10	10	10	10	10	10
5	1	н	10	10	10	10	10	10	10	10 .	10	10
6	i	н	10	10	10	10	10	10	10	10	10	10
7	i	Н	10	10	10	10	10	10	10	10	10	10
8	1	Н.	10	10	10	10	10	10	10	10	10	10
9	 	н	10	10	10	10	10	10	10	10	10	10
10	 	н	10	10	10	10	10	10	10	10	10	10
11	1	н	10	10	10	10	10	10	10	10	10	10
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17	<u>'</u>	н	10	10	10	10	10	10	10	10	10	10
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19	11	н	10	10	10	10	10	10	10	10	10	10
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26	1	н	10	10	10	10	10	10	10	10 .	10	10
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28	1	Н	10	10	10	10	10	10	10	10	10	10
29	1	н	10	10	10	10	10	10	10	10	10	10
30	1	н	10	10	10	10	10	10	10	10	10	10
31	1	н	9	10	10	10	10	10	10	9	10	10
32	ı	н	10	10	10	10	10	10	10	10	10	10
33	1	н	10	10	10	10	10	10	10	10	10	10
34	ı	н	10	10	10	10	10	10	10	10	10	10
35		н	10	10	10	10	10	10	10	10	10	10
36	1	н	10	10	10	9	10	10	10	10	10	10
37	i	н	10	10	10	10	10	10	10	10	10	10
38	1	н	10	10	10	10	10	10	10	10	10	10
39	 	н	10	10	10	10	10	10	10	10	9	10
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		н	5	4	4	3	6	5	7	8	5	3
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43		н	10	10	10	10	10	10	10	10	10	10
44	1		10	10	10	10	10	10	10	10	10	10
45	!	Н	10	10	9	10	10	9	9	9	9	9
46	- !	Н	10	10	10	10	10	10	10	10	10	10
47	1	н		9	8	9	9	9	9	9	9	9
48	- 1	н	10		9	9	9	9	9	9	9	9
49		н	9	9	10	10	10	10	10	10	10	10
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51	ı	н	10	10	10	10	10	10	10	10	10	10
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55	1	н	8	8	8	8	8	8	8	8	8	8
56	ı	н	10	10	10	10	10	10	10	10	10	10
57	1	Н	10	10	10	10	10	10	10	10	10	10
	mber of stud		554	553	552	549	553	550	552	551	552	55
Total Nur	mber of stud	611(2-2)								9.67	9.68	9.7

PRINCIPAL

Head of the Department Dept. of Mechanical Engg K.S. Institute of Technology Bengaluru 2560,109



K. S. INSTITUTE OF TECHNOLOGY

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

YEAR / SEM / SECTION : I/I /H SUB CODE : BPLCK105B A.Y : 2023-24 (ODD)

Faculty Name: Mr Anii Kumar A

- 1. How well you to understand the logic of control statements(if) and loops (for and while)
- 2. Ability to understand the working of lists and its methods
- 3. What is your capability to use tuples, dictionaries for storing the data
- 4. What is your efficiency in working with file creation, reading and writing data

RATINGS> 3-EXCELLE		methods in python programming 2-GOOD	1-SATISFACT	ORY			
Timestamp	ROLL NO.	NAME OF THE STUDENT	1	2	3	4	5
2023/12/30 12:04:50 PM GMT	48	Badareesh P	3	3	3	3	3
2023/12/30 12:33:35 PM GMT	43	CHIRAYU GOWDA K	3	3	3	3	3
2023/12/30 12:43:39 PM GMT	11	Husna Fathima	3	3	3	2	2
2023/12/30 1:09:02 PM GMT	15	Moulica Chowdary	3	3	3	3	3
2023/12/30 1:10:16 PM GMT	56	AMOGH K N	2	2	2	2	2
2023/12/30 1:58:10 PM GMT	28	isahana80@gmail.com	3	3	3	3	3
3/12/30 2:51:58 PM GMT	3	Amrutha R	3	3	3	3	3
2023/12/30 2:54:47 PM GMT	49	Aditya kumarB	3	3	3	3	3
2023/12/30 2:56:13 PM GMT	62	Nithin Nagappa Doralli	1	2	2	1	2
2023/12/30 2:57:02 PM GMT	55	POORVI P	3	3	3	3	3
2023/12/30 2:57:53 PM GMT	51	Vedanth M	3	3	3	3	3
2023/12/30 3:00:03 PM GMT	23	Purav. B	2	3	3	2	2
2023/12/30 3:00:03 PM GMT	1	Adithi S Bharadwaj	3	3	3	3	2
2023/12/30 3:12:04 PM GMT	19	P Naishadha Chowdary	2	2	2	2	2
2023/12/30 3:18:35 PM GMT	18	Nithin Kumar	2	3	2	2	2
2023/12/30 3:18:33 PM GMT	39	Yoga Lakshmi M	3	3	3	3	3
2023/12/30 3:44:11 PM GMT	52	Harshith H Y	3	3	3	3	3
2023/12/30 3:45:03 PM GMT	35	V.Punith	3	3	' 3	3	3
2023/12/30 3:50:44 PM GMT+	58	Bhuvana S	3	3	3	3	3
2023/12/30 4:16:29 PM GMT+	7	Dhanush BR	3	3	3	3	3
2023/12/30 4:17:02 PM GMT	27	Sagarika Sujil	3	3	3	3	3
2023/12/30 4:17:02 PM GMT+	41	Nayana.v.m	3	2	3	2	2
2023/12/30 4:26:11 PM GMT+	12	MANOHAR KN	3	3	3	3	3
2023/12/30 5:13:37 PM GMT+	46	Yuga s	2	2	2	2	2
2023/12/30 5:54:50 PM GMT	37	Vinutha N	3	3	3	3	3
2023/12/30 5:58:28 PM GMT+	4	Ashika A Rao	3	3	3	3	1
2 ,12/30 7:55:01 PM GMT	13	Mekhala A Sharma	3	3	3	3	3
2023/12/30 9:38:35 PM GMT	32	TM ABHINAV	3	3	3	2	3
2023/12/30 9:48:14 PM GMT	2	Akshay kumar G.C	3	3	3	3	3
2023/12/31 12:10:29 AM GMT	14	Monika r	3	3	3	2	3
2023/12/31 8:47:24 AM GMT	8	Dheemanth S	2	2	2	2	2
2023/12/31 9:10:24 AM GMT	38	Yashas nagaraj	3	3	3	3	3
2023/12/31 10:20:36 AM GM	45	Akhila p.v	2	3	2	2	2
2023/12/31 10:27:09 AM GMT	36	Vasu Chowdary	3	3	3	3	3
2023/12/31 1:44:53 PM GMT	53	AMULYA H	3	3	3	3	3
2023/12/31 11:03:57 PM GMT	9	FURKHAD AHMED	3	3	3	3 ·	3
2024/01/01 9:17:15 AM GMT	20	Padipati Sai divija	3	3	3	3	3
2024/01/01 9:21:21 AM GMT	5	Ashwitha C Shetty	3	3	3	3	3
2024/01/01 9:47:38 AM GMT	6	Dhaniishk	2	2	2	2	2
2024/01/01 9:53:57 AM GMT	10	Harsha kr	1	2	2	1	2
2024/01/01 11:26:17 AM GM	22	Preetham kp	3	3	3	3	3
2024/01/01 11:30:04 AM GM	40	Mohd Shaif	2	2	2	2	
2024/01/01 11:36:10 AM GM	29	SATVIK	2	2	2	2	2

				3	3	Page	<u>70 of 74</u>
24/01/01 11:37:34 AM GMT	30	Shallaja G S	3	3	3	3	3
24/01/01 11:46:34 AM GMT	25	Ritu joshi	3		2	1	1
24/01/01 11:50:12 AM GM	33	Tharun A N	1	1	3	3	3
24/01/01 12:10:01 PM GMT	16	Neeharika S	3	3	'2	2	2
24/01/01 12:14:16 PM GMT	59	Sathwik. M.	2	2	3	3	3_
24/01/01 12:16:22 PM GMT	31	Sujith M	3	3	3	3	3
24/01/01 12:16:45 PM GMT	21	Pavan	3	3	1	1	1
24/01/01 12:43:02 PM GMT	50	Jeevan setty	11	1	3	3	3
24/01/01 12:43:25 PM GMT	61	ANUSHREE K N	3	3	1	1	1
24/01/01 1:52:13 PM GMT+	60	DM Yashaswini	11	11	3	3	3
24/01/01 1:56:53 PM GMT	42	Mokshagna Chowdary Mallina	3	3		3	2
024/01/01 3:25:59 PM GMT-	57	DEEPAK M	2	2	2	3	3
024/01/01 9:34:27 PM GMT-	54	Rumaisa syed	3	3	3	3	3
24/01/02 6:54:48 AM GMT	17	Nikhil.v	3	3	3	3	3
024/01/04 2:57:57 PM GMT-	44	Mohammed Alman	3	3	2	1	2
024/01/04 2:58:36 PM GMT+	26	Ronaldo	3	3	3	3	3
024/01/04 3:47:10 PM GMT+	34	Trupthi J	3	3	3	3	3
024/01/04 8:10:16 PM GMT+	47	Shree Harsha k y	3	3	3	3	3
024/01/08 5:21:29 PM GMT+	24	R Bharath	3	3	2	5	4
02.1/02/00		No.of '1's	4	62	62	62	62
		Total	62	95.16	96.77	91.94	93.55
		Percentage	93.55	93.10	70.77		
		Average	94.19				6

Course in charge

Head of the Department
Head of the Department
Dept. of Science and Humanities
K.S. Institute of Technology
Bengaluru - 580 109



K S INSTITUTE OF TECHNOLOGY DEPARTMENT OF COMPUTER & COMMUNICATION ENGINEERING

YEAR / SEMESTER	2022-2023 / FIRST SEM
COURSE TITLE	INTRODUCTION TO PYTHON PROGRAMMING
COURSE CODE	BPLCK105B
ACADEMIC YEAR	2022-2023

Anil kuman	0	ni	ic	Im	21
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SI.	H E		海南南南省	SALISA	Internals		Printer D.		А	ssignmen	t ,	47.00	176	Recor	d,Observat	ion&Viva	in a social	网络斯	SEE
No	USN	NAME	CO 1	CO 2	CO 3	F CO 4	* CO 5	CO 1	CO 2	CO 3	CO 4	CO 5	CO 1	CO 2	CO 3	CO 4	CO 5	Lab IA	SEE
			12 M	12 M	12 M	12 M	12 M	4 M	4 M	4 M	4 M	4 M	3 M	3 M	3 M	3 M	3 M	#SM	50 M
1	1KS22CM001	ADITHYA ARUN SATHVIK	11	10	10	9	10	4	4	4	4	4	3	3	3	3	3	5	28
2	1KS22CM002	ANITHA P C	10	9	12	12	8	4	4	4	4	4	3	3	3	3	3	5	37
3	1KS22CM003	ANUSH 5	12	9	4	3	2	4	4	4	4	4	3	3	3	3	3	5	18
4	1K522CM005	ARSHIYA J	12	12	12	8	10	4	4	4	4	4	3	3	3	3	3	5	43
5	1KS22CM006	ARUN L JADAVA LAMANI	3	9	7	9	1	4	4	4	4	4	3	3	3	3	3	4.5	18
6	1K522CM007	B S AISHWARYA	11	11	11	12	12	4	4	4	4	4	3	3	3	3	3	5	40
7	1KS22CM008	B S BRUNDHA	11	6	4	12	8	4	4	4	4	4	3	3	3	3	3	4.5	18
8	1K522CM009	BASAPUR GOPALKRISHNA	6	4	8	2	5	4	4	4	4	4	3	3	3	3	3	4.5	18
9	1KS22CM010	BASAVARAJ PATIL	7	11	12	9	8	4	4	4	4	4	3	3	3	3	3	5	31
10	1K522CM011	BRINDA S	12	12	11	11	11	4	4	4	4	4	3	3	3	3	3	5	33
11	1KS22CM012	DEEKSHA H R	3	3	6	11	3	4	4	4	4	4	3	3	3	3	3	4.5	18
12	1K522CM013	DFEKSHA S	12	12	12	12	12	4	4	4	4	4	3	3	. 3	3	3	4.5	35
13	1KS22CM014	DEEPIKA G	7	7	3	8	6	4	4	4	4	4	3	3	3	3	3	5	18
14	1KS22CM015	DINESH SHARMA B	9	11	12	12	11	4	4	4	4	4	3	3	3	3	3	5	33
15	1KS22CM016	DISHA A	12	12	12	12	12	4	4	4	4	4	3	3	3	3	3	5	42
16	1KS22CM017	GANGOTHRI P	10	10	12	11	9	4	4	4	4	4	3	3	3	3	3	5	37
17	1KS22CM018	H R CHANDANA	8	11	4	9	8	4	4	4	4	4	3	3	3	3	3	4.5	24
18	1KS22CM019	HAJIRA ANWAR	7	9	2	7	5	4	4	4	4	4	3	3	3	3	3	5	24
19	1KS22CM020	HAMEED VAJIR TERDALE	10	12	8	8	5	4	4	4	4	4	3	3	3	3	3	5	34
20	1KS22CM021	HEMANTH B R	7	6	8	8	6	4	4	4	4	4	3	3	3	3	3	4.5	26
21	1KS22CM022	HEMANTH K E	9	11	12	3	5	4	4	4	4	4	3	3	3	3	3	5	34
22	1KS22CM02	K R SHREYA	11	12	9	3	7	4	4	4	4	4	3	3	3	3	3	5	26
23	1KS22CM024	KARTHIK R JOSHI	6	5	0	2	5	4	4	4	4	4	3	3	3	3	3	4	34
24	1K522CM025	KIRAN D	9	8	5	6	9	4	4	4	4	4	3	3	3	3	3	5	23
25	1KS22CM026	KUNDANKUMAR S	10	11	10	12	10	4	4	4	4	4	3	3	3	3	3	5	39
26	1KS22CM02	7 MAHALAKSHMI D	4	7	5	6	4	4	4	4	4	4	3	3	3	3	3	4.5	18
27	1KS22CM02	B MANJUNATH K	8	9	3	11	8	4	4	4	4	4	3	3	3	3	3	5	33
28	1K522CM03	MOHAMMED FAHIM R	12	12	12	12	12	4	4	4	4	4	3	3	3	3	3	5	26
25	1K522CM03	1 NARASIMHA M K	12	12	12	12	12	4	4	4	4	4	3	3	3	3	3	5	18
30	1K522CM03.	2 NEELANJALI C	10	8	4	11	2	4	4	4	4	4	3	3	3	3	3	4.5	18
31	1KS22CM03	3 NIMISHA S L	12	11	12	12	9	4	4	4	4	4	3	3	3	3	3	5	30
37	1K522CM03	4 NISHAL R	9	3	1	8	0	4	4	4	4	4	3	3	3	3	3	5	18
33	1KS22CM03	5 NITHIYA V	4	9	5	7	7	4	4	4	4	4	3	3	. 3	3	3	5	19
3	1 1KS22CM03	6 PAVAN R	11	11	10	12	9	4	4	4	4	4	3	3	3	3	3	5	31

35	1KS22CM037	PAVAN UMESH KULKARNI	12	12	12	12	7	4	4	4	4	4	3	3	3	3	3	5	25
36	1K522CM038	PRAJWAL M P	9	8	5	4	5	4	4	4	4	4	3	3	3	3	3	4.5	32
37	1K522CM039	PRUTHVIRAJ N	7	8	3	4	8	4	4	4	4	4	3	3	3	3	3	5	18
38	1KS22CM040	PUNITH K M	11	10	6	11	4	4	4	4	4	4	3	3	3	3	3	4.5	23
39	1KS22CM041	RAKSHITH M	8	8	0	2	1	4	4	4	4	4	3	3	3	3	3	5	13
40	1K522CM042	SAI SMRITI M	9	12	5	7	9	4	4	4	4	4	3	3	3	3	3	4.75	32
41	1KS22CM043	SAKSHI SINGH	12	12	12	10	12	4	4	4	4	4	3	3	3	3	3	5	40
42	1KS22CM044	SATHVIK R P	12	10	9	7	7	4	4	4	4	4	3	3	. 3	3	3	5	28
43	1KS22CM045	SHREEDHANYA M S	12	11	12	12	12	4	4	4	4	4	3	3	3	3	3	5	28
44	1KS22CM046	SHREEPADA C	12	11	4	8	7	4	4	4	4	4	3	3	3	3	3	4.5	36
45	1KS22CM047	SHREYAS P	7	7	1	7	6	4	4	4	4	4	3	3	3	3	3	5	36
46	1K522CM048	SHRIKUMAR	10	12	8	8	9	4	4	4	4	4	3	3	3	3	3	5	20
47	1KS22CM049	SNEHA B KORADAKERI	9	9	7	6	6	4	4	4	4	4	3	3	3	3	3	5	22
48	1KS22CM050	SREYASREE R JOSHI	12	8	7	12	6	4	4	4	4	4	3	3	3	3	3	5	24
49	1KS22CM051	SRILAKSHMI P Y	11	12	7	10	5	4	4	4	4	4	3	3	3	3	3	5	30
50	1KS22CM052	SRINIVASA R	11	8	10	8	6	4	4	4	4	4	3	3	3	3	3	4.5	20
51	1KS22CM053	SUHAS PRABHAKAR CHINDI	12	8	9	12	8	4	4	4	4	4	3	3	3	3	3	5	39
52	1KS22CM054	SUJAN S P	12	6	6	10	4	4	4	4	4	4	3	3	3	3	3	5	43
53	1KS22CM055	SUJITH MANNE	8	8	4	8	5	4	4	4	4	4	3	3	. 3	3	3	4.5	41
54	1KS22CM056	SURABHI RAO	12	12	11	12	12	4	4	4	4	4	3	3	3	3	3	5	35
55	1KS22CM057	UMME HANI	12	12	9	12	10	4	4	4	4	4	3	3	3	3	3	5	18
56	1KS22CM058	Y ISHITHA	10	10	10	8	7	4	4	4	4	4	3	3	3	3	3	5	18
57	1K522CM059	YERABOTHULA CHAITANYA	12	11	11	12	12	4	4	4	4	4	3	3	3	3	3	5	37
58	1KS22CM060	YERRABOTHULA KIRAN	6	8	7	8	6	4	4	4	4	4	3	3	3	3	3	5	28
	60° a 0	of Maximum marks (X)	7.2	7.2	7.2	7.2	7.2	2.4	2.4	2.4	2.4	2.4	1.8	1.8	1.8	1.8	1.8	3	30
	No	of students above X	45	48	31	42	28	58	58	58	58	58	58	58	58	58	58	58	27
	Total	number of students (Y)	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	62
		CO Percentage	77.586	82.76	53.45	72.41	48.28	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	43.5
			CO 1	CO 2	CO 3	CO 4	COS	CO 1	CO 2	CO 3	CO 4	CO 5	CO 1	CO 2	CO 3	CO 4	CO 5	Lab IA	SEE

CO	CIE	SEE	DIRECT	Level	COURSE	LEVEL	ATTAIN
COL	86.55	43.55	65.05	3.00	97,00	3,00	3
CO2	89.66	43.55	66.60	3.00	97.00	3.00	3
CO3	72.07	43.55	57.81	2.00	97.00	3,00	2.1
CO4	83.45	43.55	63,50	3.00	97.00	3.00	3
CO5	68.97	43.55	56,26	2.00	97.00	3,00	2.1
	AVERAGE				77100	5,00	2.64

	IA	Ast	CIE LAB	IA LAB	AVG
C01	77.59	100	100.00	100.00	86.55
CO2	82.76	100	100.00	100.00	89.66
CO3	53.45	100	100,00	100.00	72.07
CO1	72,41	100	100.00	100.00	83.45
C05	48.28	100.00	100.00	100.00	68.97

CO Attainment Level	Significance	For Direct attainment , 50% of CIF and 50% of SEE marks are considered
Level 3	60% and above students should have secred - 60% of Total marks	For indirect attainment, Course end survey is considered.
Level 2	55% to 59% of students should have secred > 60% of Total marks	CO attainment is 90° nof direct attainment + 10° n of Indirect attainment.
Level 1	50% to 54% of students should have scored >= 60% of Total marks	PO attainment = CO-PO mapping strength/3 * CO attainment

CO ATTAINMENT

co

cos		-				Ca-Pa A	Inpping Ta	ble						
COL	POI	PO1	103	PO4	PO5	PO6	PO7	POS	PO9	PO10	POH	PO12	PS01	PS02
		2	2		1	1	-	1	107	1010	POII	PO13	1:501	1.302
CO2	3	2	2		1			-	-					
COT	3	2	1		-			-		2	-	1	2	1
CO4	3	3	1			-		1		2		1	3	1
CO5	3	1	-	<u> </u>				1	- 1	2		1	1	1
WG.	1 (11)			· .				1	1	2		1	3	-
****	3.00	2.40	2.6		1.00	1		1	1.00	2.00		1.00	2.60	1.00

8

50					PC	DATTAIN	MENTA	VBLE.							
		POI	PO2	. PO3	PO4	PO5	PO6	PO7	POS	PO9	. POIN	0000			
3.00	7.	3.00	200	,		1.00					1010	ron	PO12	PSOI	PSO
3 00	ν.	7 (10)							- 1	1.00	2.00		1 00	3	1
2.10		1,1771		2	-	1.00			1	1.00	2.00		1.00		-
-		2 10	1.40	21		0.70			0.7	0.20					
3.00	Λ.	1.00	3.00	1		1.400					1.40		0.70	2.1	0.7
2.10	1.	2.10	_			1.00			1	1.00	2.00		1.00	1	-
		2.10	2.10	2.1		0.70			0.7	0.70	1.10		0.90		-
		2 64	2.10	2 24		0.88			0.88	0.88	1.40		0.70	2.1	0.7
	3.00	Miniment RESULT	Mainment MESUL1 POI	Miniment RESCL.1 POI PO2 3.00 Y 3.00 2.00 3.00 Y 3.00 2.00 2.10 Y 2.10 1.40 3.00 Y 3.00 3.00 2.10 Y 2.10 3.00 2.10 Y 2.10 2.10	Mulainment IUSCLL PO1 PO2 . PO3 3 00 Y 3 00 2 00 2 3 00 Y 3 00 2 00 2 2 10 Y 2 10 1 10 2 1 3 00 Y 3 00 3 00 3 2 10 Y 2 10 2 10 2 1	Milainmen RISCLL PO1 PO2 PO3 PO4 3.00 Y 3.00 2.00 2 . 3.00 Y 3.00 2.00 2 . 2.10 Y 2.00 1.40 2.1 . 3.00 Y 1.00 3.00 3 . 2.10 Y 2.10 2.10 2.1 .	Attainment REVILIT POI PO2 . PO3 PO4 PO5 3.00 Y 3.00 2.00 2 - 1.00 3.00 Y 3.00 2.00 2 - 1.00 2.10 Y 2.10 1.40 2.1 - 0.70 3.00 Y 3.00 3.00 3 - 1.00 2.10 Y 2.10 2.10 2.1 - 6.70	Milainment RESULT PO1 PO2 PO3 PO4 PO5 PO6 3.00 Y 3.00 2.00 2 - 1.00 - 3.00 Y 3.00 2.00 2 - 1.00 - 2.10 Y 2.10 1.40 2.1 - 0.70 - 3.00 Y 3.00 3.00 1.00 - - 2.10 Y 2.10 2.10 2.1 0.70 -	Attainment REVI_I POI PO2 PO3 PO4 PO5 PO6 PO7 3.00 Y 3.00 2.00 2 - 1.00 - - 3.00 Y 3.00 2.00 2 - 1.00 - - 2.10 Y 2.10 1.40 2.1 - 0.70 - - 3.00 Y 3.60 3.00 3 - 1.00 - - 2.10 Y 2.10 2.10 2.1 - 0.70 - -	Numariment RESULT POL POS POS	Mainment RISTLI POI PO2 PO3 PO4 PO5 PO6 PO7 POB PO9 3.00 Y 3.00 2.00 2 - 1.00 - - 1 1.00 2.10 Y 3.00 2.00 2 - 1.00 - - 1 1.00 2.10 Y 2.10 1.40 2.1 - 0.70 - - 0.7 0.70 0.70 3.00 Y 3.00 3.00 3 1.00 - - 1 1.00 2.10 Y 2.10 2.10 2.1 0.70 - - 0.7 0.70 2.10 Y 2.10 2.10 2.1 0.70 - - 0.7 0.70	Attainment RESULT POI PO2 PO3 PO4 PO5 PO6 PO7 POR PO9 PO10 3.00 Y 3.00 2.00 2 - 1.00 - - 1 1.00 2.00 2.10 Y 3.00 2.00 2 - 1.00 - - 1 1.00 2.00 2.10 Y 2.10 1.40 2.1 - 0.70 - - 0.7 0.7 0.7 1.40 3.00 Y 3.00 3.00 3 - 1.00 - - 1 1.00 2.00 2.10 Y 2.10 2.10 2.1 - 0.70 - - 0.7 0.70 1.40 2.10 Y 2.10 2.10 2.1 - 0.70 - - 0.7 0.70 0.70 1.40	Attainment RESTLT PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 3 00 Y 3 00 2 00 2 - 1 00 - - 1 1 00 2 00 - 2 10 Y 3 00 2 00 2 - 1 00 - - 1 1 00 2 00 - 2 10 Y 2 10 1 10 2 1 - 0 70 - 0 7 0 70 1 40 - 3 00 Y 3 00 3 00 3 - 1 00 - - 0 7 0 70 1 40 - 2 10 Y 2 10 2 10 2 1 - 0 70 - 0 7 0 70 1 40 - 2 10 Y 2 10 2 10 2 1 - 0 70 - - 0 7 0 70 1 40 -	Attainment RISTLI POI PO2 PO3 PO3 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 3 00 Y 3 00 2 00 2 - 1 00 - - 1 1 00 2 00 - 1 00 2 10 Y 3 00 2 00 2 - 1 00 - - 1 1 00 2 00 - 1 00 2 10 Y 2 10 1 10 2 1 - 0 70 - 0 7 0 70 1 10 2 00 - 0 70 3 00 Y 3 00 3 00 3 - 1 00 - - 0 7 0 70 1 10 2 00 - 1 00 2 10 Y 2 00 3 00 3 - 1 00 - 0 7 0 70 1 10 2 00 - 1 00 2 10 Y 2 00 2 10 2 1 0 70 - 0	Number N

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