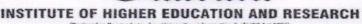


Bharath





BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY No.173, Agharam Road, Selalyur, Chennal, T.N. - 600 073.

Requisition Letter

From

Date: 05.09.2021

Dr. K.P.Kaliyamurthie,
Professor & Head,
Department of CSE,
Bharath Institute of Higher Education and Research,
Chennai

To
The Dean Engineering,
Bharath Institute of Higher Education and Research,
Chennai

Respected sir

Subject: Request of Permission to conduct a value added course on "Introduction to Python Data Types" -Reg

With reference to above subject, I would like to bring to your kind notice that, our department interested to organize value added course on "Introduction to Python Data Types" in our campus premises on 12/09/2021.

55 students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: CSE Smart Room

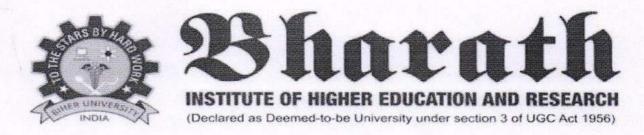
Timing: 9 am to 4.30 pm

Submitted to Principal for approval to organize this value added course.

HOD/CSE

DEAN ENGINEERING

Department of Computer Sciu & Engg., Bharath Institute of Higher Education & Research Declared as Deemed to be University U/S 3 of UGC Act, 1956) Chennal-600 073. INDIA



CIRCULAR

08.09.2021

The School of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on Introduction to Python Data Types for the benefit of II, III and IV year students. This course is scheduled from 12.09.2021 for 30hours which includes theory and practical. The timings are 1:30 PM to 4:30 PM

All Registered Students must attend all the classes without fail. The following faculty members are assigned to handle the course. S.NO	Name of the Faculty	Designation
1	Dr.C.Nalini	Professor
2	Dr.G.Michael	Professor

Head of Department

To

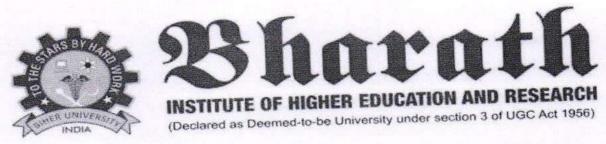
Copy to CSE

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HEAD OF DEPARTMENT

Department of Computer Scit A English Computer Sci A Engli

Bharath Institute of Higher Education & Research (Declared as Deemed to be University U/S 3 of UCC Act, 1958) Chennal-600 073, INDIA



CERTIFICATE COURSE ON INTRODUCTION TOPYTHON DATATYPES

Date of Introduction of the Course: 12-09-2021

COURSE SYLLABUS

1. Introduction to Python Syllabus

An Introduction to The Python Programming Language. History of Python, Evolution Introduces Python's Basic Datatypes, Files, Functions, And Error Handling.

2. Beginning Python Basics

The Print Statement, Comments, Python Data Structures & Data Types, String operations in Python, Simple Input & Output, Simple Output Formatting, Operators in Python

3. Variables in Python- Global and Static Variables

Creating and Declaring Python Variable, Re-Declaring a Variable, Local variable, Global variable, Deleting a variable, Concatenating Variables, Constants

4. Python Program Flow

Indentation, The If statement and its' related statement, an example with it and its related statement, the while loop, the for loop, the range statement, Break & Continue, Assert Examples for looping

5. Functions and Modules

Create your own functions, Functions Parameters, Variable Arguments, Scope of a Function, Function Documentations, Lambda Functions& map, Exercise with functions Create a Module, Standard Modules.

6. Python Data types

Python Data Types: An Overview, Mutable Data Types, Immutable Data Types, Numbers, Strings, Lists, Tuples, Sets, Dictionaries.

7. Python Numerical

Categories of Number Data Type, Integers in Python, Long Integers, Octal and Hexadecimal in Python, Floating Point in Python, Complex Numbers in Python Number Type Conversion.

8. Strings in Python

Creating String in Python, Accessing Python String Characters, Updating and Deleting a String in Python, Python String Operators, Built-in Python String Methods and Python String Functions.

9. List in Python

Creating Lists in Python, Creating Multi-dimensional lists in Python, Python Lists Extension, Accessing Lists in Python.

Python List Comprehension 10.

List Comprehension- Syntax, Condition, Expression, Nested Loop in List Comprehension.

Common List Operation in Python 11.

Slicing Python Lists, Update or Add Elements in a Python List, Update or Add Elements in a Python, remove elements from list in python, remove duplicates from lists in python, Sorting Lists in Python, Reverse a List in Python.

Python Lists Functions and Methods

Predefined List Functions in List, Built-in Methods using List/Array.

Tuples in Python 13.

Creating Tuple in Python, Accessing Python Tuple Elements - Indexing, Reverse Indexing, Slicing Operator, Operations in Python Tuples-Modifying Element in Python Tuple, Deleting Python Tuple Elements

Set in Python 14.

Instantiate a set in Python, Python set Operation, Common Python Set Methods.

Dictionary in Python 15.

Create a Dictionary in Python, Access Items in Dictionary, Operations in Dictionary, Common Python Dictionary methods.

COURSE OBJECTIVES

In this course we plan to give students an overview of basic concepts and terminology related to Python and its Data Types. This Python for beginners training course leads the students from the basics of writing and running Python scripts to more advanced features such as file operations, regular expressions, working with binary data, and using the extensive functionality of Python modules. Extra emphasis is placed on features unique to Python, such as tuples, array slices, and output formatting.

Specifically, the course has the following objectives:

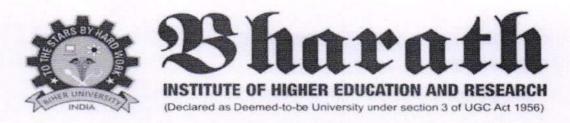
Students will learn

- 1. Explain basic principles of Python programming language
- 2. Implement object oriented concepts,
- 3. Implement database and GUI applications

COURSE COORDINATOR

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT



CERTIFICATE COURSE ON INTRODUCTION TO PYTHON DATA TYPES

Date of Introduction of the Course:12-09-2021

Time Table& Lesson plan

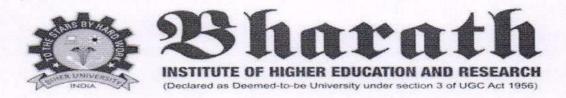
CLASS	DATE	TOPIC
1,2	12-09-2021(AN)	1.Introduction to Python Syllabus
		An Introduction To The Python
		Programming Language. History Of Python,
		Evolution Introduces Python's Basic Datatypes,
		Files, Functions, And Error Handling.
3,4	16-09-2021(AN)	2. Begining Python Basics
		ThePrint Statement, Comments, Python Data
		Structures & Data Types, String Operations in
		Python, Simple Input & Output, Simple Output
		Formatting, Operators in Python
5,6	17-09-2021(FN)	3. Variables in Python- Global And Static
		Variables
		Creating and Declaring Python Variable, Re-
		Declaring a Variable, Local variable, Global
	BEAUTY BEAUTY	variable, Deleting a variable, Concatenating
= 0	45.00.004(137)	Variables, Constants
7,8	17-09-2021(AN)	4. Python Program Flow
		Indentation, The If statement and its' related
		statement, An example with if and it's related statement, The while loop, The for loop, The
		range statement, Break &Continue, Assert
		Examples for looping
9,10	23-09-2021(AN)	5. Functions and Modules
9,10	23-09-2021(AIN)	Create your own functions, Functions
		Parameters, Variable Arguments, Scope of a
		Function, Function Documentations, Lambda
		Functions& map, n Exercise with functions
		Create a Module, Standard Modules.
11,12	24-06-2021(FN)	6. Python Data types
11,12	21 00 2021(111)	Python Data Types: An Overview, Mutable Data
		Types, Immutable Data Types, Numbers, Strings,
		Lists, Tuples, Sets, Dictionaries
13,14	24-09-2021(AN)	7. Python Numericals
	(-2.1)	Categories of Number Data Type, Integers in
		Python, Long Integers, Octal and Hexadecimal in
		Python, Floating Point in Python, Complex
	The state of the s	Numbers in Python Number Type Conversion.

15,16	30-09-2021(AN)	8. Strings in Python Creating String in Python, Accessing Python String Characters, Updating and Deleting a String in Python, Python String Operators, Built-in Python String Methods and Python String Functions
17,18	01-10-2021(FN)	9.List In Python Creating Lists in Python, Creating Multi- dimensional lists in Python, Python Lists Extension, Accessing Lists in Python
19,20	01-10-2021 (AN)	10.Python List Comprehension List Comprehension- Syntax, Condition, Iterable, Expression, Nested Loop in List Comprehension
21,22	07-10-2021 (AN)	11. Common List Operation in Python Slicing Python Lists, Update or Add Elements in a Python List, Update or Add Elements in a Python, Remove elements from list in python,Remove duplicates from lists in python,Sorting Lists in Python, Reverse a List in Python.
23,24	08-10-2021 (FN)	12. Python Lists Functions and Methods Predefined List Functions in List, Built-in Methods using List/Array.
25,26	08-10-2021 (AN)	
27,28	14-10-2021 (AN)	14. Set In Python Instantiate a set in Python, Python set Operation, Common Python Set Methods.
29,30	15-10-2021 (FN)	15.Dictionary In Python Create a Dictionary in Python, Access Items in Dictionary, Operations in Dictionary, Common Python Dictionary methods

Course coordinator

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT
Department of Computer Sciol & Engg.,
Bharath Institute of Higher Education & Research
(Declared as Deemed to be University U/S 3 of UGC Act, 1956)
Chennal-600 073, INDIA



CERTIFICATE COURSE ON INTRODUCTION TO PYTHON DATA TYPES Date of Introduction of the Course: 12.09.2021

School of Computing Registered Students Name List

S.NO	REG.NO	NAME OF THE STUDENT
1	U14CS038	ANKAM MANJUNATH
2	U14CS007	ANKITA
3	U14CS015	BALA MURUGAN .P
4	U14CS026	CHIDIRALA.SAI SHANKAR
5	U14CS047	DEVULAPALLY NAGARAJU
6	U14CS054	GONTLA KARTHIK
7	U14CS231	GYANA PRASANNA
8	U14CS060	JASIMKHAN.J.
9	U14CS072	KATKURI.KUMAR
10	U14CS082	KRISHNANDAN YADAV
11	U14CS094	MANISH SHARMA
12	U14CS101	MOHAMMAD AADIL SHANHREYAR
13	U14CS177	K.SIVA SUBRAMANIAN
14	U14CS703	VASANTHAN.N
15	U14CS120	NIRUPAMA CHAKRABORTY .S
16	U14CS129	PIYALI CHAKRABORTHY.M
17	U14CS138	RAHUL KUMAR
18	U14CS151	RAVIPATI SUBBARAYUDU
19	U14CS160	SANDEEP INGUVA
20	U14CS164	SAURAV KUMAR
21	U14CS708	SUSMITA MOG
22	U14CS172	SHASHI BHUSHAN BHAGAT
23	U14CS183	SULEKHA KUMARI
24	U14CS192	THARIGOPULA LOKESH
25	U14CS202	VEMULA ANWAR

26	U14CS210	YELLALA SANTHOSH REDDY
27	U14CS223	ARUN
28	U14CS236	M.RAVISANKAR
29	U15CS008	ARYAN SAHU
30	U15CS015	BANDARU RAMESH
31	U15CS020	BONALA SRIDHAR RAO
32	U15CS028	DADAM CHAITHRA
33	U15CS040	GANGARAPU UKESH
34	U15CS051	GUNDA VINAY KUMAR
35	U15CS058	JAICHAND KUMAR
36	U15CS068	KAIPU PRANAY REDDY
37	U15CS076	KANDULA SRINATH
38	U15CS085	KONDURU PREM KUMAR
39	U15CS096	M. DINESH REDDY
40	U15CS110	MANOJ KUMAR R
41	U15CS117	KARAM
42	U15CS704	N SWAPNA RAAGA
43	U15CS129	NEELA SAI KUMAR
44	U15CS138	PATNAM VENKATA RAMANA
45	U15CS150	PRATHI VENKAT RANJITH KUMAR
46	U15CS162	RAMIREDDY SURENDRA REDDY
47	U15CS176	SADHOLLA PRANAY REDDY
48	U15CS185	SANTHOSH RAJ M
49	U15CS189	SESHA SRUJAN.B
50	U15CS192	SIRI GIRI HAREESH
51	U15CS199	TAKKELLA AJITH CHOWDARY
52	U15CS209	VEMSETTY ARUN SAHADEV
53	U15CS216	KARAN PRINCY.P
54	U15CS233	SOMESH.C
55	U15CS248	PRAVEEN RAJ.V
55	U15CS701	ABHISHEK MANDURI

Course coordinator

HEAD OF THE DEPARTMENT

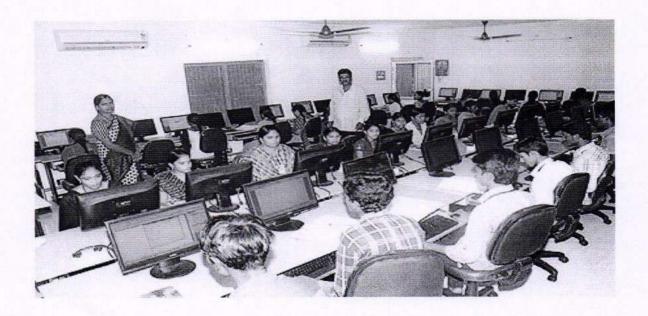
HEAD OF DEPARTMENT
Department of Computer Scie (Lengg.,
Bharath Institute of Higher Education & Research
(Declared as Deemed to be University U/S 3 of UGC Act, 1956)
Chennal-600 073, INDIA



INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared as Deemed-to-be University under section 3 of UGC Act 1956)

CERTIFICATE COURSE ON INTRODUCTION TO PYTHON DATATYPES



Creal **COURSE COORDINATOR**

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT Department of Computer Scit. A Engg.,
Bhurath Institute of Higher Education & Research
(Declared as Decemed to be University U/S 3 of UGC Act, 1956)
Chennal-600 073, INDIA



CERTIFICATE OF PARTICIPATION

This certificate is presented to

NEELA SAI KUMAR

For actively participating in the value added course "Introduction to Python Data Types" Conducted by School of Computing, BIHER from 12.09.2021 to 15.10.2021.

COURSE COORDINATORS

HEAD OF THE DEPARTMENT

DIRECTOR

COURSE FEEDBACK FORM

Acad	lemic Ye	ar 202	2021 - 2022								
Term		-00	ld s	em							
Cour	se Numb	per									
Cour	rse Title	enterp	thon D	ata	Types			TEXTEL			
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	0-20	20-40									
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2.	Numb	er of hours per week spent on	the course (Othe	r than lect	ure hours)						
	0-2	2-4	4-6		6-8		8-10				
3.	Denna	ration for the course by the stu	dent					ne ne ne ne			
3.	(i)	Have done part of this course	TO STATE OF THE ST	u.							
	(ii)		K)								
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	(iv)	Have no exposure to the backs	ground material		Jes						
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	(b)	Get exposed to a relevant subj									
	(c)	Curiosity	Ser ex								
	(d)	Better Employment Opportun	ity		(Ne	1					
	(e)	Complete Course requirement	equirements								
	(f)	To Improve CGPA			- ge						
Abo	ut the In	structor: Information on the R	espondent: (Tic	k (√) Appr	opriately)						
	-		A	В	C	D		E			
1.	Pace o	f the Teaching/lecture			V						
2.	Comm	nent of the Subject			N						
3.	Clarity	of expression			7						
4.	Level	Level of preparation									
5.	Level of interaction										
6.	Acces	sibility outside the class			V						
7.	Others	(please specify									
					In comme	,	l n l n	1			
A: E	excellent	B: Very Good	C: Good	1 1	D: Satisfac	tory	E: Poo	1			

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT
Department of Computer Scie & Engg.
Bharath Institute of Higher Education & Research
(Daciered as Doesned to be University UCS of UCC Act, 1956)

COURSE FEEDBACK FORM

Academic Year Term Course Number Course Title Number of Credits Type of Course Regular I. Information on the Respondent: (Tick (*) Appropriately) I. Percentage of classes attended 0-20	Δ . Τ	Excellent	R.	Very Good	C: Good	1	D:	Satisfactory		E: Poc	r	
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Course Title Tutralistics Sumber of Credits Sumber of Course Regular Elective Add-on Information on the Respondent: (Tick (\(\sigma\)) Appropriately) Percentage of classes attended 0-20 20-40 40-60 60-80 80-100 Number of hours per week spent on the course (Other than lecture hours)		Prepai	ration for the co	urse by the stud	ent:							
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Course Title Twingleuten to Pytton Data Types Number of Credits Type of Course Regular Elective Add-on Information on the Respondent: (Tick (\(\frac{1}{2}\))) Appropriately)		137			(01)							
Course Number Course Title Thresholds Type of Course Regular Elective Add-on Information on the Respondent: (Tick (\(\frac{1}{2}\)) Appropriately)					40	-60	M	60-80		80-100		
Course Number Course Title Tribraleutes to Pytton Data Types Number of Credits Type of Course Regular Elective Add-on	1.	Percen	Percentage of classes attended									
Course Number Course Title Thraduction to Python Data Types Number of Credits	i.	Information on the Respondent: (Tick (√) Appropriately)										
Course Number Course Title Tritraduction to Python Data Types Number of Credits	JPC	0. 00	111811111									
Course Number Course Title Introduction to Python Data Types					Electiv	e		Add	-on	1		
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HEAD OF THE DEPARTMENT

Department of Computer Scie & Engg.

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