(Declared as deemed to be university under section 3 of UGC Act 1956, vide notification No.F.9-5/2000-U.3)

Ref: VAC02/BSC/ARTS/SPL/2022

SCHOOL OF BASIC SCIENCE

Permission Letter

Date: 02/11/2022

From

Dr.S.Ramki

Assistant Professor

Department of Mathematics and Statistics

School of Basic Sciences

BIHER

To

The HOD

Department of Mathematics

School of Basic Sciences

BIHER

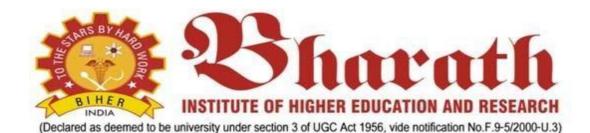
Respected Sir

Sub – Permission to conduct value added courses - reg.

I wish to inform you that, as it is decided to conduct the value added courses to supplement the curriculum to make students better prepared to meet industry demands as well as develop their own interests and aptitudes. The eligibility of this course is open for UG students from department of Mathematics and Statistics in association with INDIRA GANDHI MEDICAL COLLEGE AND RESEARCH INSTITUTE, PONDICHERRY[IGMC & RI]. So please permit us to conduct the value added course on Aptitude and Reasoning from 12.12.2022 to 06.03.2023.

Thanking you.

HOD



Circular

Date: 07/11/2022

Sub: Organising Value added Course: PYTHON PROGRAMMING

With reference to the above mentioned subject, we bring it to your notice that School Of Basic Science, Faculty of Arts & Science, Bharath Institute of Higher Education & Research is organising "PYTHON PROGRAMMING". The syllabus and registration form are enclosed below.

The candidates those who are interested to join must fill the registration form and submit to the HOD, on or before 12.12.2022. The Registration form received after the mentioned date shall not be entertained under any circumstances.

Head of the Department

Head of the Department
Department of Mathematics
Faculty of Arts & Science
BHARATH INSTITUTE OF RIGHER EDUCATION & RESEARCH
(Declared as Deemed to be University U.S. 3 of U.GC Act. 1956)
Chennai-600 073. INDIA.

Encl: A copy of Syllabus & Registration form

Copy To:

- 1. All HODs
- 2. Office File / Notice Board

Dean

Dean-Faculty of Arts & Science
Bharath Institute of Higher Education & Research
(Declared as Deemed to be University WS 3 of UGC Act. 193 of Chennal-600 073, INDIA



Students Registration List

Value Added Course: PYTHON PROGRAMMING

S.NO	REG.N0	NAME OF THE CANDIDATE
1	U20SA001	R. ADHITHYA
2	U20SA002	A. J. BALAJI
3	U20SA003	V. BALAJI
4	U20SA004	P. GUNALAN
5	U20SA005	S. HARISH
6	U20SA006	S. JAYASHREE
7	U20SA007	S. KARUPPUSAMY
8	U20SA008	P S LAVANTHI SUPRAJA
9	U20SA009	S. LOKESH MADHAVAN
10	U20SA010	K. R.MOHAN BABU
11	U20SA011	Y. PHILIP RAJ
12	U20SA012	S. PAVITHRAN
13	U20SA013	P. PRAKASHRAJ
14	U20SA014	PRITI SAHA
15	U20SA015	T. RAJKUMAR
16	U20SA016	K. RUBACHANDRAN
17	U20SA017	D. SANJAY
18	U20SA018	E. SANJAY
19	U20SA019	M. SANJAYKUMAR
20	U20SA020	K. SANKARANARAYANAN
21	U20SA021	R.SANTHOSH KUMAR
22	U20MA001	BHAVNA MEHRA
23	U20MA002	B. HARIPRIYA
24	U20MA003	J. MAHALAKSHIMI
25	U20MA004	K. A. PRAMILA RANI
26	U20MA005	T. PRASHANTHKUMAR
27	U20MA006	K. SANJAY
28	U20MA007	R. SARASWATHY
29	U20MA008	M. SHAHNAZ BEGUM
30	U20MA009	H. SHANOFAR
31	U20MA010	S. SIVA
32	U20MA011	M. MUNEES
33	P22SA001	AMUTHA M
34	P22SA002	ANNAM SOWMYA
35	P22SA003	AVINASH.B.J
36	P22SA004	CHRISTOPHER KINGSLY M
37	P22SA005	DEEPA B
38	P22SA006	DHARMARAJ . A

20	D22G A 007	
-	P22SA007	GAJALAKSHMI K
	P22SA008	JENISHA M
	P22SA009	KOKILA.A
	P22SA010	LAVANYA R
	P22SA011	MADHUMITHA S
	P22SA012	MARY SHAMITHA S
—	P22SA013	PAVITHRA P
	P22SA014	PRAVIN JOHN DAVID.M
	P22SA015	RANJITH. K
	P22SA016	SATHEESH KUMAR.R
	P22SA017	SHARLI GIFTA G
-	P22SA018	SRINIVASAN.B
51	P22SA019	VIGNESH S
	P22SA020	VIGNESHKUMAR V
	P22SA021	VISHWA.N
54	P22MA002	T N ANSHIDA
	P22MA003	Y DINESH
	P22MA004	DIVAKAR SAHA
57	P22MA005	S. KANIMOZHI
58	P22MA006	T KUMARI
59	P22MA007	L R SANJANA KUMARI
60	P22MA008	SANTHIYA.M
61	P22MA009	SENEHA
62	P22MA010	SHARLIN G
63	P22MA011	SHREYA NAIR
64	P22MA012	SUBHAJIT HAZRA
65	P22MA014	SUVETHA G V
66	U21SA001	HARISH NEELASAN N
67	U21SA002	SAKTHI NIRANJAN G
68	U21SA003	SHAKILA K
69	U21SA004	VENUGOPAL R
70	U21SA005	BHAARGAV ANAND
71	U21SA006	SATHISH KUMAR K
72	U21MA001	DEVISRI S
73	U21MA002	KIRTHIKA M
74	U21MA003	SHERLIN JENIFER J
75	U21MA004	AKALYA M
76	U21MA005	JOHN SAMUEL L



Department of Mathematics and Statistics

Registration Form

Value Added Course: Course on Python Programming

Date: 09.02.9092

Name

: S. Rwithran

Register Number

: UDOSAOID

Date of Birth

: 12-09-2002

Gender

: Mole

Department

: Mathematics and Statistics

Pursuing Year

: 2091- 2023

Mobile Contact

: 6380173744

Email ID

: Pavilhon 0446@grail.com

Course Applied

: Course on Python programing

S.Bukon Signature



Department of Mathematics and Statistics

Registration Form

Value Added Course: Course on Python Programming

Date: 09.42. 2022

Name

PAULRAS M

Register Number

: P215A020

Date of Birth

: 25.07.1999

Gender

: MALE

Department

: MATHEMATICS AND STATISTICS

Pursuing Year

: 2021 - 2023

Mobile Contact

: 9790110234

Email ID

: padrajasssu@gmail.com

Course Applied

: PYTHON PROGRAMMING

Parling



VALUE ADDED COURSE: PYTHON PROGRAMMING

Unit-1:

Python Programming: Running code in the interactive shell – Input, processing and output – editing, saving, and running a script - Syntax Errors. Basic elements of Python - Data types – String literals – Escape sequences – String concatenation – Variables and Assignment statements – Comments. Expressions – Mixed mode arithmetic and type conversion - Control statements - Iteration.

Unit-2:

Functions: Calling a function through arguments and return values – Scoping – Global variables – Math module – Main module – Program format and structure - Strings and text files: Manipulating files and directories, os and sys modules. Text files: Reading / Writing text and numbers from / to a file - Creating and reading a formatted file (csv or tab-separated).

Unit-3:

String manipulations: Subscript operator – indexing - slicing a string. Strings and number system: Converting strings to numbers and vice versa - Binary, octal, hexadecimal numbers. Lists, tuples, and dictionaries: Basic list operators - Replacing, inserting, removing an element - Searching and sorting lists - Dictionary literals - adding and removing keys, accessing and replacing values - Traversing dictionaries.

Unit-4:

Design with functions:Hiding redundancy, complexity; arguments and return values; formal Vs actual arguments, named arguments. Program structure and design - Recursive functions —Abstract Data types and Classes — Inheritance — Multiple Inheritance - Static and Class Methods — Operator Overloading - Polymorphism - Handling Exceptions.

Unit-5:

Regular Expressions and Python – Plotting - Simple graphics and image processing: "Turtle" module - simple 2d drawing - colors, shapes - digital images, image file formats, image processing simple image manipulations with 'image' module - Applications in solving computational and statistical problems- User defined functions for Parametric and Non-parametric tests - Fitting of Distributions – Binary Logistic Regression.

Book for study:

Kenneth Lambert (2012), Fundamentals of Python: First Programs, Course Technology, USA.

Books for references:

- 1. Ceder, V. L (2010) The Quick Python Book, Second Edition, Manning Publication Co, Greenwich, USA.
- 2. Wes McKinney (2012), Python for Data Analysis, O'reilly, USA.
- 3. Alex Martelli (2006), Python in a Nutshell: A Desktop Quick Reference, O'reilly, USA.



beclared as deethed to be differently under section 5 of OGC Act 1950, vide notification two.F.5-5/2000-0.

SCHOOL OF BASIC SCIENCE Course Time Table

Value Added Course: PYTHON PROGRAMMING Course Duration: 30 Hrs

S.No	Date	Time	Hour
1	12-12-2022	10.00-12.00 a.m	2
2	15-12-2022	2.00-4.00 p.m	2
3	19-12-2022	10.00-11.00 a.m	1
4	23-12-2022	2.00-4.00 p.m	1
5	27-12-2022	10.00-11.00 a.m	2
6	30-12-2022	2.00-4.00 p.m	1
7	02-01-2023	10.00-11.00 a.m	1
8	04-01-2023	2.00-4.00 p.m	2
9	09-01-2023	10.00-12.00 a.m	1
10	11-01-2023	2.00-3.00 p.m	1
11	16-01-2023	10.00-12.00 a.m	2
12	03-02-2023	2.00-3.00 p.m	1
13	08-02-2023	10.00-12.00 a.m	2
14	13-02-2023	2.00-4.00 p.m	2
15	17-02-2023	10.00-11.00 a.m	1
16	20-02-2023	10.00-12.00 a.m	2
17	23-02-2023	2.00-3.00 p.m	1
18	27-02-2023	10.00-11.00 a.m	1
19	03-03-2023	2.00-4.00 p.m	2
20	06-03-2023	10.00-12.00 a.m	2



Lesson Plan

VAC: Course on PYTHON PROGRAMMING Course Duration:30 Hrs

S.No	Date	Topic	Time	Hrs
1		•		
1	12-12-2022	Running code in the interactive shell – Input	10.00-12.00 a.m	2
2	15-12-2022	processing and output – editing, saving, and running a script - Syntax Errors	2.00-4.00 p.m	2
	13 12 2022	Basic elements of Python - Data types – String	2.00 1.00 p.m	
3	19-12-2022	literals – Escape sequences	10.00-11.00 a.m	1
_		Expressions – Mixed mode arithmetic and type		
4	23-12-2022	conversion - Control statements - Iteration.	2.00-4.00 p.m	1
		Functions: Calling a function through arguments		
5	27-12-2022	and return values – Scoping – Global variables – Math module	10.00-11.00 a.m	2
	27 12 2022	Main module – Program format and structure -	10.00 11.00 a.m	<u> </u>
6	30-12-2022	Strings and text files	2.00-4.00 p.m	1
		Manipulating files and directories, os and sys		
7	02-01-2023	modules	10.00-11.00 a.m	1
		Text files: Reading / Writing text and numbers		
8	04-01-2023	from / to a file - Creating and reading a formatted file	2.00-4.00 p.m	2
0	04-01-2023	String manipulations: Subscript operator –	2.00-4.00 p.m	
		indexing - slicing a string. Strings and number		
9	09-01-2023	system	10.00-12.00 a.m	1
		Converting strings to numbers and vice versa -		
10	11-01-2023	Binary, octal, hexadecimal numbers	2.00-3.00 p.m	1
11	16-01-2023	Lists, tuples, and dictionaries: Basic list	10.00-12.00 a.m	2
11	10-01-2023	operators - Replacing, inserting, adding and removing keys, accessing and	10.00-12.00 a.III	
		replacing values - Traversing dictionaries.		
12	03-02-2023		2.00-3.00 p.m	1
		Design with functions:Hiding redundancy,		
13	08-02-2023	complexity; arguments and return values;	10.00-12.00 a.m	2
13	08-02-2023	formal Vs actual arguments, named arguments Program structure and design - Recursive	10.00-12.00 a.iii	
14	13-02-2023	functions –Abstract	2.00-4.00 p.m	2
		Data types and Classes – Inheritance – Multiple	•	
15	17-02-2023	Inheritance - Static and Class	10.00-11.00 a.m	1
	20.02.202	Methods – Operator Overloading -	10.00.12.00	_
16	20-02-2023	Polymorphism - Handling Exceptions	10.00-12.00 a.m	2
17	23-02-2023	Regular Expressions and Python – Plotting - Simple graphics and image processing:	2.00-3.00 p.m	1
1/		simple 2d drawing - colors, shapes - digital	2.00-3.00 μ.π	1
18	27-02-2023	images, image file formats, image processing	10.00-11.00 a.m	1
	03 03 2022	User defined functions for Parametric and Non-		
19	03-03-2023	parametric tests	2.00-4.00 p.m	2
20	06-03-2023	- Fitting of Distributions – Binary Logistic	10.00.12.00	2
20	30 02 2028	Regression	10.00-12.00 a.m	2



Department of Mathematics and Statistics

Course Feedback form

Value Added Course : Course on Python Programming

Date: 06-02-2023

Course Title: Python Programming.

Name S. Paviltmon

Reg. No. Ugospoia

Department Nothernoting and Statistics

S.No	Particulars	1	2	3	4	5
	(1. Very Unsatisfied 2. Unsatisfied 3. Neutral 4. Satisfied	5. Ver	v Sa	tisfie	d)	
1.	objectives of the course clear to you			V		
2.	The course contents met with your expectations	+			~	
3.	The lecture sequence was well planned					1
4.	The lectures were clear and easy to understand					5
5.	The teaching aids were effective	+				-
5.	The instructors encourage interaction and were helpful					,
	The level of the course	+				_
	(1. Very poor 2. Poor 3. Average 4. Good 5. I	Excelle	nt)			
- 1	Overall rating of the course:	1	2	3	4	5

Please give Suggestion for the improvement of the course:

Lot specilists could be improved.



Department of Mathematics and Statistics

Course Feedback form

Value Added Course: Course on Python Programming

Date: 06 . 03 - 2003

Course Title: PYTHON PROGRAMMENG

Name PAULRAT M

Reg. No: P215A020

Department MATHEMATICS AND STATISTICS

S.No	Particulars	1	2	3	4	5
	(1. Very Unsatisfied 2. Unsatisfied 3. Neutral 4. Satisfie	d 5. Ver	y Sa	tisfie	d)	
1.	objectives of the course clear to you				V	
2.	The course contents met with your expectations		Г	V		
3.	The lecture sequence was well planned				1	
4.	The lectures were clear and easy to understand					~
5.	The teaching aids were effective	\top	T	~		
6.	The instructors encourage interaction and were helpful				V	
7.	The level of the course				V	
	(1. Very poor 2. Poor 3. Average 4. Good 5	. Excell	ent)		-	
8.	Overall rating of the course:	1	2	3	4	3

Please give Suggestion for the improvement of the course:

Signature



(Declared as deemed to be university under section 3 of UGC Act 1956, vide notification No.F.9-5/2000-U.3)

SCHOOL OF BASIC SCIENCE **Department of Mathematics**

VAC: PYTHON PROGRAMMING



Resource Person Details

Dr. N. Pukazhenthi Assistant Professor, Department of Statistics, Annamalai University, Chidambaram.