

## Topics covered

### Introduction to python in Geology

- Comment, Print, Variable, Data Type, Input
- Basic Math with Python
- Conditional Operators and Conditional Programming using if-elif-else
- Looping in Python using for() and while()
- Data Containers in Python: List, Tuple, Set, Dictionary

Date: 27.11.2023  
to  
15.12.2023

Time: 3.00 - 5.00 pm

### Coordinators

Ms. Shaima M. M.  
Dr. Linto Alappat  
Dept. of Geology & Env. Science



**CHRIST**  
COLLEGE(AUTONOMOUS)  
IRINJALAKUDA, KERALA



DEPARTMENT OF GEOLOGY & ENVIRONMENTAL SCIENCE

Certificate course

on

## Introduction to Python in Geology

Resource persons



MR.PRAGNYADIPTA SEN

FOUNDER

M/S TERRAPY EDUCATION

AN MSME GOVT. OF INDIA CERTIFIED &  
ISO 9001:2015 ACCREDITED ORGANISATION



MS.SOUMYA P.S.

ASSISTANT PROFESSORS

DEPT. OF COMPUTER SCIENCE  
CHRIST COLLEGE(AUTONOMOUS)  
IRINJALAKUDA, KERALA



MS.VARSHA GANESH















































# **Introduction to Python in Geology Value Added Certificate Course Summary Report 2023**

**Course Code: GEO0PYGL**

The course started on November 27th 2023.

There were 100 students and 100 students completed the course. The course was of 50 hrs. duration (10 theory hrs. and 40 practical hours). The course was well-received by the students, who expressed gratitude towards the department for launching this course, which would help them in their future pursuits.

## **Course Outcome**

The students felt that the class met their needs. Different facets of Python programming were given to them. This made the fundamentals of scientific data analysis and programming with the Python programming language easier for students to learn and comprehend (no prior programming expertise necessary). The goal of each session, which is a tutorial covering a particular topic, is to help students learn and acquire the skills necessary to use Python to perform typical data-related tasks. As a result, students came to appreciate the value of Python programming in geological research.

Course Coordinator: Shaima M M, Dr. Linto Alappat

# **Introduction to Python in Geology Value Added Certificate Course Summary Report 2023**

**Course Code: GEO0PYGL**

Number of Students	100
Date of Examination	30/09/22
Total Students who passed exam	100
Total Course duration	50 hrs

## **Feedback analysis:**

- The ability to install Python, identify significant data kinds, and operate the Python interpreter's basic functions were all demonstrated to the students. The training helped the students grasp the fundamentals of Python programming.
- Students were able to comprehend how Python was used in a variety of subjects, including geology, and they expressed a desire to study Python more practically in order to solve additional geological problems.
- Students had the opportunity to communicate with experts in Python programming outside of the classroom.
- Most of the students enjoyed the classes.

Course Coordinator: Shaima M M. Dr. Linto Alappat



# **Introduction to Python in Geology Value Added Certificate Course Summary Report 2023**

**Course Code: GEOOPYGL**

Students are evaluated on the basis of practical examination (70%), theory examination (20%) and Viva examination (10%). An application problem pertaining to geology was presented to each applicant in order to evaluate the student's application of the learned material. The remaining 80% of the student evaluation process consisted of problem solving utilising the fundamentals of Python programming and viva. Students who had successfully solved the problem were the only ones permitted to take the final test.

Course Coordinator: Shaima M M. Dr. Linto Alappat

**List of Students**

Sl.No	Name	Class	University Register No
1	AJNA P A	B.Sc. Geology I Sem Self Financing	CCAXSGL055
2	AKSHAYA K S	B.Sc. Geology I Sem Self Financing	CCAXSGL043
3	AMARJITH P S	B.Sc. Geology I Sem Self Financing	CCAXSGL046
4	ANURANJ K R	B.Sc. Geology I Sem Self Financing	CCAXSGL047
5	APARNA MANOJ	B.Sc. Geology I Sem Self Financing	CCAXSGL056
6	ASHISH KRISHNA K U	B.Sc. Geology I Sem Self Financing	CCAXSGL057
7	ASWATHI K A	B.Sc. Geology I Sem Self Financing	CCAXSGL058
8	CHINMAY SUDEV	B.Sc. Geology I Sem Self Financing	CCAXSGL048
9	DARSHAN DILEEP	B.Sc. Geology I Sem Self Financing	CCAXSGL044
10	ELA MURALI	B.Sc. Geology I Sem Self Financing	CCAXSGL049
11	GIRIDHAR RAJEEV	B.Sc. Geology I Sem Self Financing	CCAXSGL059
12	GREESHMA JAYAKUMAR	B.Sc. Geology I Sem Self Financing	CCAXSGL060
13	HRIDYA M	B.Sc. Geology I Sem Self Financing	CCAXSGL050
14	HRIDYA SUNIL	B.Sc. Geology I Sem Self Financing	CCAXSGL051
15	KRISHNAPRIYA K P	B.Sc. Geology I Sem Self Financing	CCAXSGL061
16	MEGHNA M P	B.Sc. Geology I Sem Self Financing	CCAXSGL045
17	NAVANEETH K	B.Sc. Geology I Sem Self Financing	CCAXSGL062
18	NIRANJAN SUDHI	B.Sc. Geology I Sem Self Financing	CCAXSGL063
19	PAVITHRA KRISHNAN	B.Sc. Geology I Sem Self Financing	CCAXSGL052
20	SHAHANAS ABDUL JABAR	B.Sc. Geology I Sem Self Financing	CCAXSGL053
21	SHAHRIN K S	B.Sc. Geology I Sem Self Financing	CCAXSGL064
22	SOHAN LIJU	B.Sc. Geology I Sem Self Financing	CCAXSGL065



Sl.No	Name	Class	University Register No
23	SREERAG M S	B.Sc. Geology I Sem Self Financing	CCAXSGL054
24	SREERAG RAMESH K R	B.Sc. Geology I Sem Self Financing	CCAXSGL066
25	THEJAL SHAJ	B.Sc. Geology I Sem Self Financing	CCAXSGL067
26	VARSHA VENUGOPAL	B.Sc. Geology I Sem Self Financing	CCAXSGL068
27	VINAYAK SHYLESH NAIR	B.Sc. Geology I Sem Self Financing	CCAXSGL069
28	ADHIRATH VILLEDATH SOMARAJAN	Integrated M.Sc. Geology I Sem	CCAXIGL009
29	ALEENA PAUL	Integrated M.Sc. Geology I Sem	CCAXIGL001
30	AMAL JOSHY	Integrated M.Sc. Geology I Sem	CCAXIGL010
31	ANANDHU T S	Integrated M.Sc. Geology I Sem	CCAXIGL002
32	ANJANA C J	Integrated M.Sc. Geology I Sem	CCAXIGL011
33	ANN MARIYA JIJU	Integrated M.Sc. Geology I Sem	CCAXIGL012
34	ANSHA T S	Integrated M.Sc. Geology I Sem	CCAXIGL003
35	ANUSREE.S	Integrated M.Sc. Geology I Sem	CCAXIGL004
36	ASWATHI S	Integrated M.Sc. Geology I Sem	CCAXIGL013
37	BHAGYA BHAVAN	Integrated M.Sc. Geology I Sem	CCAXIGL005
38	CARMEN ELIZABETH CARRI	Integrated M.Sc. Geology I Sem	CCAXIGL014
39	GOPIKRISHNAN RAJAGOPALAN	Integrated M.Sc. Geology I Sem	CCAXIGL006
40	HARSHA THOMAS	Integrated M.Sc. Geology I Sem	CCAXIGL015
41	HASEENA P A	Integrated M.Sc. Geology I Sem	CCAXIGL007
42	M. THEJUS	Integrated M.Sc. Geology I Sem	CCAXIGL008
43	MEGHA M R	Integrated M.Sc. Geology I Sem	CCAXIGL016
44	RAIZEL JOJU	Integrated M.Sc. Geology I Sem	CCAXIGL017

Sl.No	Name	Class	University Register No
45	ROHITH K SALEESH	Integrated M.Sc. Geology I Sem	CCAXIGL018
46	SHADA C P	Integrated M.Sc. Geology I Sem	CCAXIGL019
47	SNEHA SUDHEER	Integrated M.Sc. Geology I Sem	CCAXIGL020
48	SWETHA S	Integrated M.Sc. Geology I Sem	CCAXIGL021
49	VAIDEHI C V	Integrated M.Sc. Geology I Sem	CCAXIGL022
50	VENKIDESH RAJ	Integrated M.Sc. Geology I Sem	CCAXIGL023
51	ABHINAV T M	B.Sc. Geology I Sem Aided	CCAXSGL010
52	ABISHAI DAVID	B.Sc. Geology I Sem Aided	CCAXSGL030
53	ADITHYA P S	B.Sc. Geology I Sem Aided	CCAXSGL011
54	ALEENA PAUL	B.Sc. Geology I Sem Aided	CCAXSGL012
55	ANGEL JOSE	B.Sc. Geology I Sem Aided	CCAXSGL013
56	ANANDU K S	B.Sc. Geology I Sem Aided	CCAXSGL031
57	ANOOJA T A	B.Sc. Geology I Sem Aided	CCAXSGL001
58	ANURENJ T S	B.Sc. Geology I Sem Aided	CCAXSGL014
59	ARCHANA C B	B.Sc. Geology I Sem Aided	CCAXSGL015
60	ARYA.P	B.Sc. Geology I Sem Aided	CCAXSGL032
61	ARYALAKSHMI S	B.Sc. Geology I Sem Aided	CCAXSGL002
62	ASWAMITHRA P.D.	B.Sc. Geology I Sem Aided	CCAXSGL016
63	ATHULKRISHNA P G	B.Sc. Geology I Sem Aided	CCAXSGL017
64	AVANI C P	B.Sc. Geology I Sem Aided	CCAXSGL018
65	AVINASH CHANDRA A R	B.Sc. Geology I Sem Aided	CCAXSGL003
66	ELVIN PAUL	B.Sc. Geology I Sem Aided	CCAXSGL004



Sl.No	Name	Class	University Register No
67	GOPIKA K G	B.Sc. Geology I Sem Aided	CCAXSGL019
68	HRIDHYA K B	B.Sc. Geology I Sem Aided	CCAXSGL020
69	JOEL JAISE	B.Sc. Geology I Sem Aided	CCAXSGL021
70	MARIYA BOBAN	B.Sc. Geology I Sem Aided	CCAXSGL022
71	MELNA K WILSON	B.Sc. Geology I Sem Aided	CCAXSGL005
72	NANDHITHA NANDAKUMAR	B.Sc. Geology I Sem Aided	
73	NAYANA GEOGY C	B.Sc. Geology I Sem Aided	CCAXSGL023
74	PANKAJ T P	B.Sc. Geology I Sem Aided	CCAXSGL024
75	RINTO VARGHESE	B.Sc. Geology I Sem Aided	CCAXSGL025
76	SAHADIYA IQBAL	B.Sc. Geology I Sem Aided	CCAXSGL006
77	SHIVNANDU S	B.Sc. Geology I Sem Aided	CCAXSGL026
78	SREELAKSHMI P S	B.Sc. Geology I Sem Aided	CCAXSGL007
79	SREYA SUNESH	B.Sc. Geology I Sem Aided	CCAXSGL027
80	SREYADHA K S	B.Sc. Geology I Sem Aided	CCAXSGL028
81	SRUTHIN BABU	B.Sc. Geology I Sem Aided	CCAXSGL008
82	SUFIYA V P	B.Sc. Geology I Sem Aided	CCAXSGL029
83	THEERTHA RAJU	B.Sc. Geology I Sem Aided	CCAXSGL033
84	THEJA.R.NAIR	B.Sc. Geology I Sem Aided	CCAXSGL009
85	ABHIJITH DEEPAN	M.Sc. Applied Geology I Sem	
86	ALEENA JACOB	M.Sc. Applied Geology I Sem	
87	ANETT JOBY	M.Sc. Applied Geology I Sem	

Sl.No	Name	Class	University Register No
88	ASWINI AS	M.Sc. Applied Geology I Sem	
89	FARZANA NAVAZ	M.Sc. Applied Geology I Sem	
90	FEBIN JIBI	M.Sc. Applied Geology I Sem	
91	GOKUL R S	M.Sc. Applied Geology I Sem	
92	JYOTHIKA A	M.Sc. Applied Geology I Sem	
93	MOHAMAD FADAL HAMZA	M.Sc. Applied Geology I Sem	
94	MUBASHIRA VP	M.Sc. Applied Geology I Sem	
95	NIMMI K	M.Sc. Applied Geology I Sem	
96	RAHUL PR	M.Sc. Applied Geology I Sem	
97	RESHMA R	M.Sc. Applied Geology I Sem	
98	ROJIN BIJU	M.Sc. Applied Geology I Sem	
99	SRUTHY RAJ	M.Sc. Applied Geology I Sem	
100	VYSAKH M	M.Sc. Applied Geology I Sem	

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Course Coordinator: Shaima M M. Dr. Linto Alappat




**Introduction to Python in Geology**  
**Value Added Certificate Course**  
**Assessment Procedure**

**Course Code: GEOOPYGL**

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 **GPS Map Camera**

Irinjalakuda, Kerala, India

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