

**Introduction to programming in Geology and Statistical data analysis
using Python Value Added Certificate Course
Summary Report 2022**

Course Code: GEO0PYGL

The course started on September 13th 2022.

There were 93 students and 93 students completed the course. The course was of 50 hrs. duration (10 theory hrs. and 40 practical hours). Students enjoyed the course and appreciated the efforts of the department in initiating such a course that would benefit their future endeavors.

Course Outcome:

The students were satisfied with the class. They were given different aspects of Python programming. This helped them to understand the basic concepts of programming and scientific data analysis using the Python programming language in a format that is easy to learn and understand (no previous programming experience required). Each lesson is a tutorial with specific topic(s) where the aim is to gain skills and understanding how to solve common data related tasks using Python and students realized the importance of python programming in geological research.

Course Coordinator: Tharun R, Shaima M M

**Introduction to programming in Geology and Statistical data analysis
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Number of Students	93
Date of Examination	30/09/22
Total Students who passed exam	93
Total Course duration	50 hrs

Feedback analysis:

- Students were able to understand how to install Python, distinguish between important data types and use basic features of the Python interpreter The course was useful for students to understand the Basics of Programming in Python

- Students were able to understand application of Python in various disciplines including ○ Geology and wanted to include more practical on learning for the Python programming language in various geological problems.
- Apart from the course syllabus, students were able to interact with Python Programming professionals
- Most of the students enjoyed the classes.

Course Coordinator: Tharun R, Shaima M M

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Students are evaluated on the basis of practical examination (70%), theory examination (20%) and Viva examination (10%). For the assessment of student ability to apply the acquired knowledge, geology related problem was given to all the candidates. The problem solving using the basics of Programming in Python and viva constituted the final 80% of the student evaluation process. Only those students who have solved the problem were allowed to attend the final examination.

Course Coordinator: Tharun R, Shaima M M

Sl. No.	Student Name	Batch	Department	University Register No	Course Name	Commencement date	Duration
1	Nandana P D	B.Sc. Geology III Sem Aided	Department of Geology and Environmental Science	CCA VSGL033	Advanced programming Geology and Statistical data Analysis using Python	13-09-2022	15 days
2	Sreenandana T B	B.Sc. Geology III Sem Aided	Department of Geology and Environmental Science	CCA VSGL013	Advanced programming Geology and Statistical data Analysis using Python	13-09-2022	15 days
3	Adithya K A	B.Sc. Geology III Sem Aided	Department of Geology and Environmental Science	CCA VSGL015	Advanced programming Geology and Statistical data Analysis using Python	13-09-2022	15 days
4	Punnya Ashok	B.Sc. Geology III Sem Aided	Department of Geology and Environmental Science	CCA VSGL014	Advanced programming Geology and Statistical data Analysis using Python	13-09-2022	15 days
5	Elizabeth Jolly	B.Sc. Geology III Sem Aided	Department of Geology and Environmental Science	CCA VSGL023	Advanced programming Geology and Statistical data Analysis using Python	13-09-2022	15 days
6	Akhil Rahman	B.Sc. Geology III Sem Aided	Department of Geology and Environmental Science	CCA VSGL001	Advanced programming Geology and Statistical data Analysis using Python	13-09-2022	15 days
7	Aparna G	B.Sc. Geology III Sem Aided	Department of Geology and Environmental Science	CCA VMAG005	Advanced programming Geology and Statistical data Analysis using Python	13-09-2022	15 days
8	Greeshma Ganesh	M.Sc. Applied Geology III Sem	Department of Geology and Environmental Science	CCA VMAG008	Advanced programming Geology and Statistical data Analysis using Python	13-09-2022	15 days
9	Karthika J H	M.Sc. Applied Geology III Sem	Department of Geology and Environmental Science	CCA VMAG001	Advanced programming Geology and Statistical data Analysis using Python	13-09-2022	15 days
10	Varsha Krishnan	M.Sc. Applied Geology III Sem	Department of Geology and Environmental Science	CCA VMAG005	Advanced programming Geology and Statistical data Analysis using Python	13-09-2022	15 days
11	Kiran R S	B.Sc. Geology III Sem SF	Department of Geology and Environmental Science	CCA VSGL044	Advanced programming Geology and Statistical data Analysis using Python	13-09-2022	15 days

12	Sriya K R	B.Sc. Geology III Sem SF	Department of Geology and Environmental Science	CCAUSGL062	Department of Geology and Environmental Science	13-09-2022 15 days
13	Sandra Savio	B.Sc. Geology V Sem Aided	Department of Geology and Environmental Science	CCAUSGL007	Department of Geology and Environmental Science	13-09-2022 15 days
14	Riya C R	B.Sc. Geology V Sem Aided	Department of Geology and Environmental Science	CCAUSGL006	Department of Geology and Environmental Science	13-09-2022 15 days
15	Krishnaprasad M	Integrated M.Sc. Geology	Department of Geology and Environmental Science	CCAUIGL011	Department of Geology and Environmental Science	13-09-2022 15 days

Sl. No.	Student Name	Batch	Department	University Register No	Course Name	Commencement date	Duration
1	Nandana P D	B.Sc. Geology III Sem Aided	Department of Geology and Environmental Science	CCAUSGL033	Advanced programming Geology and Statistical data Analysis using Python	13-09-2022	15 days
2	Sreenandana T B	B.Sc. Geology III Sem Aided	Department of Geology and Environmental Science	CCAUSGL013	Advanced programming Geology and Statistical data Analysis using Python	13-09-2022	15 days
3	Adithya K A	B.Sc. Geology III Sem Aided	Department of Geology and Environmental Science	CCAUSGL015	Advanced programming Geology and Statistical data Analysis using Python	13-09-2022	15 days
4	Punnya Ashok	B.Sc. Geology III Sem Aided	Department of Geology and Environmental Science	CCAUSGL014	Advanced programming Geology and Statistical data Analysis using Python	13-09-2022	15 days
5	Elizabeth Jolly	B.Sc. Geology III Sem Aided	Department of Geology and Environmental Science	CCAUSGL023	Advanced programming Geology and Statistical data Analysis using Python	13-09-2022	15 days
6	Akhil Rahman	B.Sc. Geology III Sem Aided	Department of Geology and Environmental Science	CCAUSGL001	Advanced programming Geology and Statistical data Analysis using Python	13-09-2022	15 days
7	Aparna G	B.Sc. Geology III Sem Aided	Department of Geology and Environmental Science	CCAVMAG005	Advanced programming Geology and Statistical data Analysis using Python	13-09-2022	15 days
8	Greeshma Ganesh	M.Sc. Applied Geology III Sem	Department of Geology and Environmental Science	CCAVMAG008	Advanced programming Geology and Statistical data Analysis using Python	13-09-2022	15 days
9	Karthika J H	M.Sc. Applied Geology III Sem	Department of Geology and Environmental Science	CCAVMAG011	Advanced programming Geology and Statistical data Analysis using Python	13-09-2022	15 days
10	Varsha Krishnan	M.Sc. Applied Geology III Sem	Department of Geology and Environmental Science	CCAVMAG015	Advanced programming Geology and Statistical data Analysis using Python	13-09-2022	15 days
11	Kiran R S	B.Sc. Geology III Sem SF	Department of Geology and Environmental Science	CCAUSGL044	Advanced programming Geology and Statistical data Analysis using Python	13-09-2022	15 days

12	Sriya K R	B.Sc. Geology III Sem SF	Department of Geology and Environmental Science	CCAUSGL062	Department of Geology and Environmental Science	13-09-2022	15 days
13	Sandra Savio	B.Sc. Geology V Sem Aided	Department of Geology and Environmental Science	CCAUSGL007	Department of Geology and Environmental Science	13-09-2022	15 days
14	Riya C R	B.Sc. Geology V Sem Aided	Department of Geology and Environmental Science	CCAUSGL006	Department of Geology and Environmental Science	13-09-2022	15 days
15	Krishnaprasad M	Integrated M.Sc. Geology	Department of Geology and Environmental Science	CCAUIGL011	Department of Geology and Environmental Science	13-09-2022	15 days

Sl. No.	Name of the Students	Batch/ Class	Department	University Register No.	Course Name	Commencement Date	Duration
1	Abel Paulson	B.Sc. Geology I Sem Aided	Department of Geology and Environmental	CCAWSGL020	Introduction to programming Geology	13-09-2022	15 days
2	Abhay M Ranjith	B.Sc. Geology I Sem Aided	Department of Geology and Environmental	CCAWSGL007	Introduction to programming Geology	13-09-2022	15 days
3	Abhirami Ravi	B.Sc. Geology I Sem Aided	Department of Geology and Environmental	CCAWSGL033	Introduction to programming Geology	13-09-2022	15 days
4	Abhishek C K	B.Sc. Geology I Sem Aided	Department of Geology and Environmental	CCAWSGL015	Introduction to programming Geology	13-09-2022	15 days
5	Abin Varghese	B.Sc. Geology I Sem Aided	Department of Geology and Environmental	CCAWSGL003	Introduction to programming Geology	13-09-2022	15 days
6	Alan Joy P	B.Sc. Geology I Sem Aided	Department of Geology and Environmental	CCAWSGL017	Introduction to programming Geology	13-09-2022	15 days
7	Aleeha Mirza V M	B.Sc. Geology I Sem Aided	Department of Geology and Environmental	CCAWSGL001	Introduction to programming Geology	13-09-2022	15 days
8	Alwin V A	B.Sc. Geology I Sem Aided	Department of Geology and Environmental	CCAWSGL028	Introduction to programming Geology	13-09-2022	15 days
9	Anitta K R	B.Sc. Geology I Sem Aided	Department of Geology and Environmental	CCAWSGL011	Introduction to programming Geology	13-09-2022	15 days
10	Ann Roshma O D	B.Sc. Geology I Sem Aided	Department of Geology and Environmental	CCAWSGL014	Introduction to programming Geology	13-09-2022	15 days
11	Athira Mohanan	B.Sc. Geology I Sem Aided	Department of Geology and Environmental	CCAWSGL018	Introduction to programming Geology	13-09-2022	15 days
12	Bhavya Krishna G	B.Sc. Geology I Sem Aided	Department of Geology and Environmental	CCAWSGL008	Introduction to programming Geology	13-09-2022	15 days
13	Esther Liza George	B.Sc. Geology I Sem Aided	Department of Geology and Environmental	CCAWSGL026	Introduction to programming Geology	13-09-2022	15 days
14	Faiza K A	B.Sc. Geology I Sem Aided	Department of Geology and Environmental	CCAWSGL025	Introduction to programming Geology	13-09-2022	15 days
15	Gaya Bhasi	B.Sc. Geology I Sem Aided	Department of Geology and Environmental	CCAWSGL030	Introduction to programming Geology	13-09-2022	15 days

16	Hrishitha K	B.Sc. Geology I Sem Aided	Department of Geology and Environmental	CCAWSGL004	Introduction to programming Geology	13-09-2022	15 days
17	Jithin . C	B.Sc. Geology I Sem Aided	Department of Geology and Environmental	CCAWSGL023	Introduction to programming Geology	13-09-2022	15 days
18	K S Yadumadhav	B.Sc. Geology I Sem Aided	Department of Geology and Environmental	CCAWSGL024	Introduction to programming Geology	13-09-2022	15 days
19	Karthika Suresh M	B.Sc. Geology I Sem Aided	Department of Geology and Environmental	CCAWSGL009	Introduction to programming Geology	13-09-2022	15 days
20	Khadija Shadin C S	B.Sc. Geology I Sem Aided	Department of Geology and Environmental	CCAWSGL005	Introduction to programming Geology	13-09-2022	15 days
21	Manjima A M	B.Sc. Geology I Sem Aided	Department of Geology and Environmental	CCAWSGL010	Introduction to programming Geology	13-09-2022	15 days
22	Megha Joy	B.Sc. Geology I Sem Aided	Department of Geology and Environmental	CCAWSGL002	Introduction to programming Geology	13-09-2022	15 days
23	Milind Krishna K S	B.Sc. Geology I Sem Aided	Department of Geology and Environmental	CCAWSGL019	Introduction to programming Geology	13-09-2022	15 days
24	Nandana T Menon	B.Sc. Geology I Sem Aided	Department of Geology and Environmental	CCAWSGL029	Introduction to programming Geology	13-09-2022	15 days
25	Rajih Rasak	B.Sc. Geology I Sem Aided	Department of Geology and Environmental	CCAWSGL027	Introduction to programming Geology	13-09-2022	15 days
26	Riyana Abdul Siraj. C	B.Sc. Geology I Sem Aided	Department of Geology and Environmental	CCAWSGL016	Introduction to programming Geology	13-09-2022	15 days
27	Sabith . P . M	B.Sc. Geology I Sem Aided	Department of Geology and Environmental	CCAWSGL021	Introduction to programming Geology	13-09-2022	15 days
28	Sheika Lubna Fathima	B.Sc. Geology I Sem Aided	Department of Geology and Environmental	CCAWSGL013	Introduction to programming Geology	13-09-2022	15 days
29	Sreebala M S	B.Sc. Geology I Sem Aided	Department of Geology and Environmental	CCAWSGL031	Introduction to programming Geology	13-09-2022	15 days
30	Sreenandana Ramachandran	B.Sc. Geology I Sem Aided	Department of Geology and Environmental	CCAWSGL022	Introduction to programming Geology	13-09-2022	15 days
31	Sreya A.V	B.Sc. Geology I Sem Aided	Department of Geology and Environmental	CCAWSGL012	Introduction to programming Geology	13-09-2022	15 days

32	Swalih K.A	B.Sc. Geology I Sem Aided	Department of Geology and Environmental	CCAWSGL006	Introduction to programming Geology	13-09-2022	15 days
33	Vijay M S	B.Sc. Geology I Sem Aided	Department of Geology and Environmental	CCAWSGL032	Introduction to programming Geology	13-09-2022	15 days
34	Abhinandh.M	B.Sc. Geology I Sem Self Financing	Department of Geology and Environmental	CCAWSGL042	Introduction to programming Geology	13-09-2022	15 days
35	Adarsh C Sunil	B.Sc. Geology I Sem Self Financing	Department of Geology and Environmental	CCAWSGL035	Introduction to programming Geology	13-09-2022	15 days
36	Adwaith K P	B.Sc. Geology I Sem Self Financing	Department of Geology and Environmental	CCAWSGL056	Introduction to programming Geology	13-09-2022	15 days
37	Afimanue Sunil	B.Sc. Geology I Sem Self Financing	Department of Geology and Environmental	CCAWSGL037	Introduction to programming Geology	13-09-2022	15 days
38	Afsar Iqbal. K	B.Sc. Geology I Sem Self Financing	Department of Geology and Environmental	CCAWSGL062	Introduction to programming Geology	13-09-2022	15 days
39	Aiswarya S	B.Sc. Geology I Sem Self Financing	Department of Geology and Environmental	CCAWSGL043	Introduction to programming Geology	13-09-2022	15 days
40	Alan Shaju	B.Sc. Geology I Sem Self Financing	Department of Geology and Environmental	CCAWSGL057	Introduction to programming Geology	13-09-2022	15 days
41	Ansif Mohammed K P	B.Sc. Geology I Sem Self Financing	Department of Geology and Environmental	CCAWSGL059	Introduction to programming Geology	13-09-2022	15 days
42	Anugraha Rajiv	B.Sc. Geology I Sem Self Financing	Department of Geology and Environmental	CCAWSGL047	Introduction to programming Geology	13-09-2022	15 days
43	Arjun Thilakan	B.Sc. Geology I Sem Self Financing	Department of Geology and Environmental	CCAWSGL053	Introduction to programming Geology	13-09-2022	15 days
44	Aron Bose George	B.Sc. Geology I Sem Self Financing	Department of Geology and Environmental	CCAWSGL045	Introduction to programming Geology	13-09-2022	15 days
45	Ashly.J.B	B.Sc. Geology I Sem Self Financing	Department of Geology and Environmental	CCAWSGL050	Introduction to programming Geology	13-09-2022	15 days
46	Bramadathan B	B.Sc. Geology I Sem Self Financing	Department of Geology and Environmental	CCAWSGL066	Introduction to programming Geology	13-09-2022	15 days
47	Christina Susan Sibi	B.Sc. Geology I Sem Self Financing	Department of Geology and Environmental	CCAWSGL061	Introduction to programming Geology	13-09-2022	15 days

48	S.S. Deva Nandan	B.Sc. Geology I Sem Self Financing	Department of Geology and Environmental	CCAWSGL060	Introduction to programming Geology	13-09-2022	15 days
49	Devika Vijay	B.Sc. Geology I Sem Self Financing	Department of Geology and Environmental	CCAWSGL036	Introduction to programming Geology	13-09-2022	15 days
50	Drisya Sujith	B.Sc. Geology I Sem Self Financing	Department of Geology and Environmental	CCAWSGL046	Introduction to programming Geology	13-09-2022	15 days
51	Fathimathe Nitha N K	B.Sc. Geology I Sem Self Financing	Department of Geology and Environmental	CCAWSGL049	Introduction to programming Geology	13-09-2022	15 days
52	Hafsa Parveen A	B.Sc. Geology I Sem Self Financing	Department of Geology and Environmental	CCAWSGL040	Introduction to programming Geology	13-09-2022	15 days
53	Henna Rose C J	B.Sc. Geology I Sem Self Financing	Department of Geology and Environmental	CCAWSGL058	Introduction to programming Geology	13-09-2022	15 days
54	Jeevan Jinesh	B.Sc. Geology I Sem Self Financing	Department of Geology and Environmental	CCAWSGL064	Introduction to programming Geology	13-09-2022	15 days
55	Krishna Kumar Sudhesh	B.Sc. Geology I Sem Self Financing	Department of Geology and Environmental	CCAWSGL038	Introduction to programming Geology	13-09-2022	15 days
56	Lena Vijayan.V.L	B.Sc. Geology I Sem Self Financing	Department of Geology and Environmental	CCAWSGL041	Introduction to programming Geology	13-09-2022	15 days
57	Mathew Netto	B.Sc. Geology I Sem Self Financing	Department of Geology and Environmental	CCAWSGL055	Introduction to programming Geology	13-09-2022	15 days
58	Prakeerth Narayanan M	B.Sc. Geology I Sem Self Financing	Department of Geology and Environmental	CCAWSGL048	Introduction to programming Geology	13-09-2022	15 days
59	Prijisha K S	B.Sc. Geology I Sem Self Financing	Department of Geology and Environmental	CCAWSGL051	Introduction to programming Geology	13-09-2022	15 days
60	Sreehari T	B.Sc. Geology I Sem Self Financing	Department of Geology and Environmental	CCAWSGL039	Introduction to programming Geology	13-09-2022	15 days
61	Swathi. P	B.Sc. Geology I Sem Self Financing	Department of Geology and Environmental	CCAWSGL063	Introduction to programming Geology	13-09-2022	15 days
62	Thara Remesh	B.Sc. Geology I Sem Self Financing	Department of Geology and Environmental	CCAWSGL054	Introduction to programming Geology	13-09-2022	15 days
63	Themeema Musthafa	B.Sc. Geology I Sem Self Financing	Department of Geology and Environmental	CCAWSGL034	Introduction to programming Geology	13-09-2022	15 days

64	Thushara Suresh P	B.Sc. Geology I Sem Self Financing	Department of Geology and Environmental	CCAWSGL065	Introduction to programming Geology	13-09-2022	15 days
65	Ujwal T U	B.Sc. Geology I Sem Self Financing	Department of Geology and Environmental	CCAWSGL052	Introduction to programming Geology	13-09-2022	15 days
66	Wafa K	B.Sc. Geology I Sem Self Financing	Department of Geology and Environmental	CCAWSGL044	Introduction to programming Geology	13-09-2022	15 days
67	Adhiya Mujeeb Rahman	Integrated M.Sc. Geology I Sem	Department of Geology and Environmental	CCAWIGL001	Introduction to programming Geology	13-09-2022	15 days
68	Akhil Philip	Integrated M.Sc. Geology I Sem	Department of Geology and Environmental	CCAWIGL027	Introduction to programming Geology	13-09-2022	15 days
69	Akshara. M.K	Integrated M.Sc. Geology I Sem	Department of Geology and Environmental	CCAWIGL002	Introduction to programming Geology	13-09-2022	15 days
70	Albin P Anil	Integrated M.Sc. Geology I Sem	Department of Geology and Environmental	CCAWIGL003	Introduction to programming Geology	13-09-2022	15 days
71	Amitha Sunil	Integrated M.Sc. Geology I Sem	Department of Geology and Environmental	CCAWIGL004	Introduction to programming Geology	13-09-2022	15 days
72	Anandapadmanabhan P M	Integrated M.Sc. Geology I Sem	Department of Geology and Environmental	CCAWIGL005	Introduction to programming Geology	13-09-2022	15 days
73	Anjitha A	Integrated M.Sc. Geology I Sem	Department of Geology and Environmental	CCAWIGL006	Introduction to programming Geology	13-09-2022	15 days
74	Annete Jojo	Integrated M.Sc. Geology I Sem	Department of Geology and Environmental	CCAWIGL007	Introduction to programming Geology	13-09-2022	15 days
75	Anuvindh S	Integrated M.Sc. Geology I Sem	Department of Geology and Environmental	CCAWIGL008	Introduction to programming Geology	13-09-2022	15 days
76	Baalu P K	Integrated M.Sc. Geology I Sem	Department of Geology and Environmental	CCAWIGL009	Introduction to programming Geology	13-09-2022	15 days
77	Biya Trees.M.F	Integrated M.Sc. Geology I Sem	Department of Geology and Environmental	CCAWIGL010	Introduction to programming Geology	13-09-2022	15 days
78	Christy Xavier	Integrated M.Sc. Geology I Sem	Department of Geology and Environmental	CCAWIGL011	Introduction to programming Geology	13-09-2022	15 days
79	Devikanandha K D	Integrated M.Sc. Geology I Sem	Department of Geology and Environmental	CCAWIGL012	Introduction to programming Geology	13-09-2022	15 days

80	Helan Rosemariya Jomon	Integrated M.Sc. Geology I Sem	Department of Geology and Environmental	CCAWIGL013	Introduction to programming Geology	13-09-2022	15 days
81	Lezin Farhan P V	Integrated M.Sc. Geology I Sem	Department of Geology and Environmental	CCAWIGL014	Introduction to programming Geology	13-09-2022	15 days
82	Madhav M	Integrated M.Sc. Geology I Sem	Department of Geology and Environmental	CCAWIGL015	Introduction to programming Geology	13-09-2022	15 days
83	Muhammed Sabith Aman.S	Integrated M.Sc. Geology I Sem	Department of Geology and Environmental	CCAWIGL016	Introduction to programming Geology	13-09-2022	15 days
84	Murshid K	Integrated M.Sc. Geology I Sem	Department of Geology and Environmental	CCAWIGL017	Introduction to programming Geology	13-09-2022	15 days
85	Nandakishore Menon	Integrated M.Sc. Geology I Sem	Department of Geology and Environmental	CCAWIGL018	Introduction to programming Geology	13-09-2022	15 days
86	Neethu Krishna V S	Integrated M.Sc. Geology I Sem	Department of Geology and Environmental	CCAWIGL019	Introduction to programming Geology	13-09-2022	15 days
87	Niranjana T V	Integrated M.Sc. Geology I Sem	Department of Geology and Environmental	CCAWIGL020	Introduction to programming Geology	13-09-2022	15 days
88	Samiya Nazneen	Integrated M.Sc. Geology I Sem	Department of Geology and Environmental	CCAWIGL021	Introduction to programming Geology	13-09-2022	15 days
89	Sandeep Narayanan M S	Integrated M.Sc. Geology I Sem	Department of Geology and Environmental	CCAWIGL022	Introduction to programming Geology	13-09-2022	15 days
90	Sehen K S	Integrated M.Sc. Geology I Sem	Department of Geology and Environmental	CCAWIGL023	Introduction to programming Geology	13-09-2022	15 days
91	Vishnu V Kannattu	Integrated M.Sc. Geology I Sem	Department of Geology and Environmental	CCAWIGL024	Introduction to programming Geology	13-09-2022	15 days
92	Vyshnavi M K	Integrated M.Sc. Geology I Sem	Department of Geology and Environmental	CCAWIGL025	Introduction to programming Geology	13-09-2022	15 days
93	Yedhukrishna P D	Integrated M.Sc. Geology I Sem	Department of Geology and Environmental	CCAWIGL026	Introduction to programming Geology	13-09-2022	15 days