

# **Concept Note**

Department of Geography

Faculty of Arts

University of Colombo

## **Certificate Course in Geology**

### **1. Introduction**

Department of Geography seeks the permission of the Senate of the University of Colombo to offer a Certificate Course in Geology.

Geology focuses on basic principles of the subjects Geology/Earth Sciences. It gives a comprehensive knowledge on the materials of Earth which composed of and its geological phenomena/processes existing interactively in the four spheres naming Lithosphere, Hydrosphere, Atmosphere and Biosphere. It also discusses the historical background of the field of Geological Sciences briefly. And also some practical and industrial applications are included in the curriculum.

In addition to theoretical aspects, practical experiences by conducting laboratory practical and field work are given to get a proper understanding of the subject.

The course is expected to commence in July, 2022.

### **2. The Need**

The subject Geology is becoming a demanding subject in every aspect among the academics, educators, researches, industrial professionals and public communities in the country. Geology play a major role in many subject areas such as Geography, Environmental Science, Archaeology, Cultural Conservation, Disaster Management, Defense, Coastal Conservation, Agriculture, Medical fields etc. Due to this wide range of application, professionals are seeking an avenue for learning the subject Geology. At the moment no such an opportunity can be found from any other education institute of Sri Lanka. Hence the certificate course proposed here is to fill the above mentioned gap while introducing an intensive course with comprehensive knowledge in Geology for the interested groups in the country.

### **3. Objective**

The main objective is to provide a comprehensive platform to interested personnel to follow the basics of Geology which gives a foundation for the other applications.

### **4. Target groups**

Any interested party needed to enhance the knowledge in geology such as school leavers, school teachers, professionals, Academics, Employees of Government and private sector.

### **5. Admission Requirements**

Candidate should have the minimum requirement of passing of Advanced Level (3 S passes) in any subject stream.

### **6. Medium of Instruction**

English

### **7. Course fee**

Registration fee (Nonrefundable) – Rs.1000

Course fee - Rs. 25,000/-

### **8. Duration**

10 weeks (60 hours in total, a full day per week and 6 hours per day)

### **9. Teaching Mode**

Lectures (Onsite/online), practical, field trips

### **10. Assessment Method**

Assignments, spot test, field reports and/or end exam

### **11. Syllabus**

1. Introduction to geology

2. Historical background of geology
3. Origin of Universe, Solar system and Earth
4. Earth structure
5. Earth materials; Minerals and Rocks
6. Geological processes
7. Rock weathering and soil formation
8. Plate tectonics and continental drifting
9. Earthquakes and Tsunamis
10. Stratigraphy and paleontology
11. Geochronology
12. Geological timescale
13. Geological structures and field geology
14. Geological mapping and Geological Maps
15. New trends in Geology
16. Laboratory and Field practical