ADMINISTRATIVE ORGANISATION

Head of Department: Pr KENGNI Lucas
Coordinator ST1 : Dr TAMEN Jules
Coordinator ST2 : Pr FOZING Eric Martial
Coordinator ST3 : Pr KWEKAM Maurice
Coordinator Master 1 : Pr NKOAUTHIO David
Coordinator Master/ PhD : Pr TEMATIO Paul.
Coordinator Master Pro : Pr KAGOU DONGMO Armand

Permanent Lecturers
Pr Kagou Dongmo Armand (P), Volcanology, Geochemistry; Pr Kwékam Maurice (P), Magmatism, Structural Geology; Pr Nkouathio David Guimolaire (P), Applied Volcanology, Petrology; Pr Tematio Paul (P), Alterology, Metallogeny; Pr Wouatong Armand (P), Alterology, Geochemistry;
Pr Fozing Eric Martial (AP), Magmatism, Structural Geology; Pr Kenfack Jean Victor (AP) Geophysics, Geotechnics; Pr Kagou Lucas (AP), Hydrology, Pr Ngnotue (AP), Magmatism, Structural Geology; Pr Njanko Théophile (AP), Magmatism, Structural Geology;
Dr Manefouet Bertille Ilalie (L1), Hydrogeology-Geotechnics; Dr Mbog Michel Bertrand (L1), Pedology, Metallogeny; Dr Njisseu Tanko Evine (L1), Hydrogeology-Geotechnics; Dr Tamen Jules (L1), Volcanology, Petrology; Dr Tassongwa Bernard (L1), Weathering Geology; Dr Tchouatcha Milan Stafford (L1), Sedimentology.

Visiting Lecturers
Pr Kamgang Kabyene (Pr), University of Yaoundé I, Pr Ndam Jules (Pr), University of Yaoundé I, Pr Ngoss III (AP), University of Yaoundé I, Pr Njonfang Emmanuel (Pr), University of Yaoundé I, Pr Yongue Fouateu Rose (Pr), University of Yaoundé I, Pr Sub Emmanuel (Pr), University of Bamenda, Dr Ngueutchoua Gabriel (AP), University of Yaoundé I

Temporary PhD student
Demanou Messe Malick Roosvelt (Geotechnics), Kamgang Tchuifong Agnès Blandine (Structural Geology), Kenzo Tongnang Merlot Le-Sage (Hydrogeology), Ntchambia Djeoua Eric (Petrology – volcanology), Tiomo Idriss Franklin (Metallogeny), Tsafack Boris Junior (Hydrology)

ACADEMIC ORGANISATION (LMD System)

A- Bachelor Degree Level

Semester 1

Semester 2

Semester 3

Semester 4

Semester 5
(STE311) Endogenous petrology, (STE321) Alteration, pedogenesis and soils classification, (STE331) Language 3 (English or French), (STE341) Structural analysis, (STE351) Gitology (STE361) Volcanology and agro pedology

Semester 6

B- Master Level

Semester 7 : Common Core
(STE411) Environment and Climate change, (STE421) Mapping Techniques and Geomatics, (STE431) Applied Geophysics, (STE441) Petrology and Geochemistry of Exogenous rocks

Optional course : (STE451) Geomechanics, (STE461) Petrology and Geochemistry of Endogenous rocks.

June 2022
OPENING AFTER BACHELOR’S DEGREE

1- Entrance examination into major Institutions:
- Higher Teacher Training College (HTTC).
- Higher Teacher Training Technical Education (HTTTE).
- Faculty of Agronomy and Agricultural Sciences (FASA).
- School of Geology and Mines (EGEM).
- Polytechnic of Maroua and Bamenda,
- Schools of Public Works,
- Inter-Army, Military School (EMIA),
- Police School, ENAM,

2- Selection into the Master’s degree program of Universities

a - Professional Master
- Masters in Applied Geology, Mining and Petroleum (Faculty of Science, University of Dschang)
- Master in Urban Planning Sciences of Cities and Urban Development (MASUVAT, Faculty of Science, University of Dschang)
- Master in Water Management, (FASA, University of Dschang).
- Master in Soil Science, (FASA, University of Dschang).
- Master in Environment and Forest (FASA, University of Dschang).

b – Master Research
- Master in Earth Sciences (Department of Earth Sciences, University of Dschang)
- Master in Geology (FLSH, University of Dschang).

3- Possibility of recruitment in companies:
- High school teacher
- Consultant (Design Office)
- Prospecting Geologist
- Touristic guide

OPENING AFTER MASTER’S AND Ph.D

1- Potential Structures:
- Universities (ATER position or Assistant in Geology),
- Ministry of Water and Energy,
- Ministry of Mines, Industries and Technological Development,
- Ministry of Territorial Administration (Directorate of Civil Protection),
- Ministry of Decentralization and local development,
- National Institute of Cartography (INC),
- Institute of Geological and Mining Research (IRGM),
- Institute for Agronomic Research for Development (IRAD),
- NGOs, Design Officer, Tourist Companies, etc...
- Tourist Companies, etc ...

2- Jobs
- Consultant
- Environmentalist
- Cartographer - Topographer
- Geophysicist
- Mining Geologist
- Geotechnician
- Hydrogeologist
- Soil Scientist
- Geochemist
- Volcanologist

LABORATORIES IN COLLABORATION

Soil Analysis and Environmental Chemistry Laboratories (LABASCE), Laboratory of Applied Botany (LABOA), Laboratories of the Department of Earth Sciences of the University of Yaoundé I, - Institute of Geological and Mining Research (IRGM) - Yaoundé, - LESEAU, ENSPT Yaoundé, Laboratory of Water Sciences Fac. Sci. Yaoundé I, - Pastor Center Yaoundé - Laboratory FUGRO, - Laboratory of Petrography and Volcanology, Paris IX, Orsay, France, - Laboratory of the National Institute of Cartography (INC), - Institute of Geological and Mining Research (IRGM), - Institute for Agronomic Research for Development (IRAD), - NGOs, Design Officer, Tourist Companies, etc...
- Tourist Companies, etc ...

Semester 8:
Option : Hydrology and Geotechnics

Option: Applied Petrology and Mineral Resources

Semester 9: Common Core
(STE511) Bibliographic and Thematic Synthesis, (STE521) Project Building and Evaluation,

Option: Hydrology and Geotechnics
Specialty: Geotechnics
(GEO531) Major Construction Sites, (GEO551) Geotechnical Engineering of Foundations, (GEO552) Geotechnical Tests,

Specialty: Hydrology
(HYD521) Water Resources and Development,

Specialty: Applied Petrology and Mineral Resources
Specialty: Endogenous formations (GFES511) Volcanology,

Specialty: Supergene Formations
(GFSS511) Elements of Landscape Dynamics, (GFSS521) Sedimentology and Sedimentary Environments,

Semester 10:
(STE512) Dissertation

C- Doctorate / PhD
Semester 11: Common Core
(STE101) General Research Methodology, (STE1102) Communication Techniques, (STE1103) Quest for Research Funding, (STE1104) Data Acquisition and Modeling, (STE1105) Modern Methods of Characterization and Mapping in Earth Sciences,

(STE1106) Fields of Application of Earth Sciences, (STE1107) PHD Seminars,

Semester 12: Common Core
(STE1201) Experimental Design and Quantitative Data Analysis, (STE1202) Introduction to Statistical Software Languages (R, SPSS, ...), (STE1203) Methodology of Research in Earth Sciences,

(STE1204) Project Implementation (STE1205) Presentation of the Thesis Proposal

Semester 13 to 16:
Seminars and conferences, writing and defense of the thesis

RESEARCH AND COOPERATION

The Department of Earth Sciences is structured in Research Units:
1- Unit of Structural Petrology and Volcanology
Coordinator: Pr KWEKAM Maurice
- Petrology and structural
- Volcanology and induced risks

2- Unit of Geological Superficial Formations
Coordinator: Pr WOUATONG Armand
- Geology of sedimentary domains
- Geomorphology and geology of the environment

3- Unit of Applied Geology
Coordinator: Pr KENGNI Lucas
- Soil science and agro-geology, - Hydrology and hydrogeology, - Valorization of local materials

AREAS OF INTERVENTION
- Implementation studies, implementation and controls of drilling and potable water supply.
- Studies of metalliferous mineralization in the granitoïds of Western Cameroon Highlands,
- Typology, evaluation and prevention of natural hazards in the Western Cameroon Highlands,
- Hydrological studies and modeling of flows in the watersheds of the Western Cameroon Highlands,
- Rainfall variability and cultural seasonal variation,
- Typology and mapping of volcanic soils for better use in agronomy,
- Valorization of materials (agropedology, ceramics, geotechnic, geomedicine…)
- Vulnerability of groundwater to pollution.