DR. BIDYUT BIKASH SHARMA

E-mail: bidyut.bikash.sarma@gmail.com ; Website: www.bidyutbsharma@weebly.com

Teaching Statement

My Teaching Philosophy:

I have a strong interest in teaching environmental science courses both at the undergraduate and post graduate levels. For me the ultimate goal of imparting environmental education at any level should be to indoctrinate the learners as environmental stewards. I believe that teaching is an interactive process where there is active participation of both the teacher and the learner, designed to further the education of the later.

Teaching method:

To achieve the teaching goals my teaching model for both undergraduate and graduate learners is an interactive one and it includes –

i. Introductory lecture on the topic (to develop interest in the topics)
ii. Audio-Visual Approach/ Presentation on the topic
iii. Lab work/Field work (for targeted skill development)
iv. Home assignments/Review exercises (for revision of topics taught)
v. Evaluation of learners (Oral/Written/Practical tests)

Emphasis on discussion of examples and case studies from the real world are part of my teaching modules which are helpful in demonstrating the application of theories in the field.

My Teaching Experiences:

I have taught environmental courses at both graduate and post-graduate levels which include courses in Environmental Pollution, Ecology, Natural Resource Management, Sustainable Development, Natural Hazards and Disaster Management in Northeast India. A specific list of course experience is as follows –

a. IGNOU Study Centre, B. Borooah College

Academic Counselor – Post Graduate Diploma in Environment and Sustainable Development (2008-2009)

MED-002 – Sustainable Development (Credit-4)
MED – 005 – Natural Resource Management (Credit -4)
MED – 007 – Agriculture and Environment (Credit -4)

b. Department of Environmental Science, Gauhati University

Part-time Faculty – M.Sc. Course in Environmental Science (2016 – 2020)

Course Code	Course Name
EVS 1053	Environmental Earth Science
EVS 1063	Analytical Methods for Environmental Monitoring
EVS 2033	Environmental Pollution – Monitoring and Control Technologies
EVS 2043	Ecosystem Dynamics, Biodiversity and Conservation Biology
EVS 3023	Eco-hydrology and Watershed Management
EVS 3043	Environmental Hazards and their Mitigation
EVS 3053	Disaster Risk Reduction and Management
EVS 4033	Climate Change and Global Environment

DR. BIDYUT BIKASH SHARMA

E-mail: bidyut.bikash.sarma@gmail.com ; Website: www.bidyutbsharma@weebly.com

---

What I would like to Teach

Proposed Courses:

i. *Earth Systems, Critical Zone and Climate Change* – An introductory course for beginners in environmental science which covers the fundamental concepts of Earth systems, Critical zone processes and climate change

ii. *Advanced Limnology – An advanced course in the domain of Limnology wherein greater focus is laid on the hydrology and hydrogeochemistry of freshwater ecosystems (rivers and wetlands) in reference to ecology of aquatic flora and fauna. The course will also lay stress on the anthropological understanding of conservation aspects of freshwater habitat and their sustainability under climate change scenarios.*

Suggested Books for Reference:

1. Understanding Earth (5th Ed.) – Grotzinger, Jordan, Press & Siever
2. Physical & Chemical Hydrogeology (2nd Ed.) – Domenico & Schwart
3. Essentials of Physical Geology (5th Ed) – Wicander and Monroe
4. A Treatise on Limnology – G.E. Hutchinson
5. Limnology- Lake and River Ecosystems (3rd Ed.) – Robert G. Wetzal
6. Ecology of Inland Waters and Estuaries (2nd Ed.) – Reid & Wood
7. Ecological Census Techniques – Sutherland
8. Microbial Ecology (4th Ed.) – Atlas & Bartha