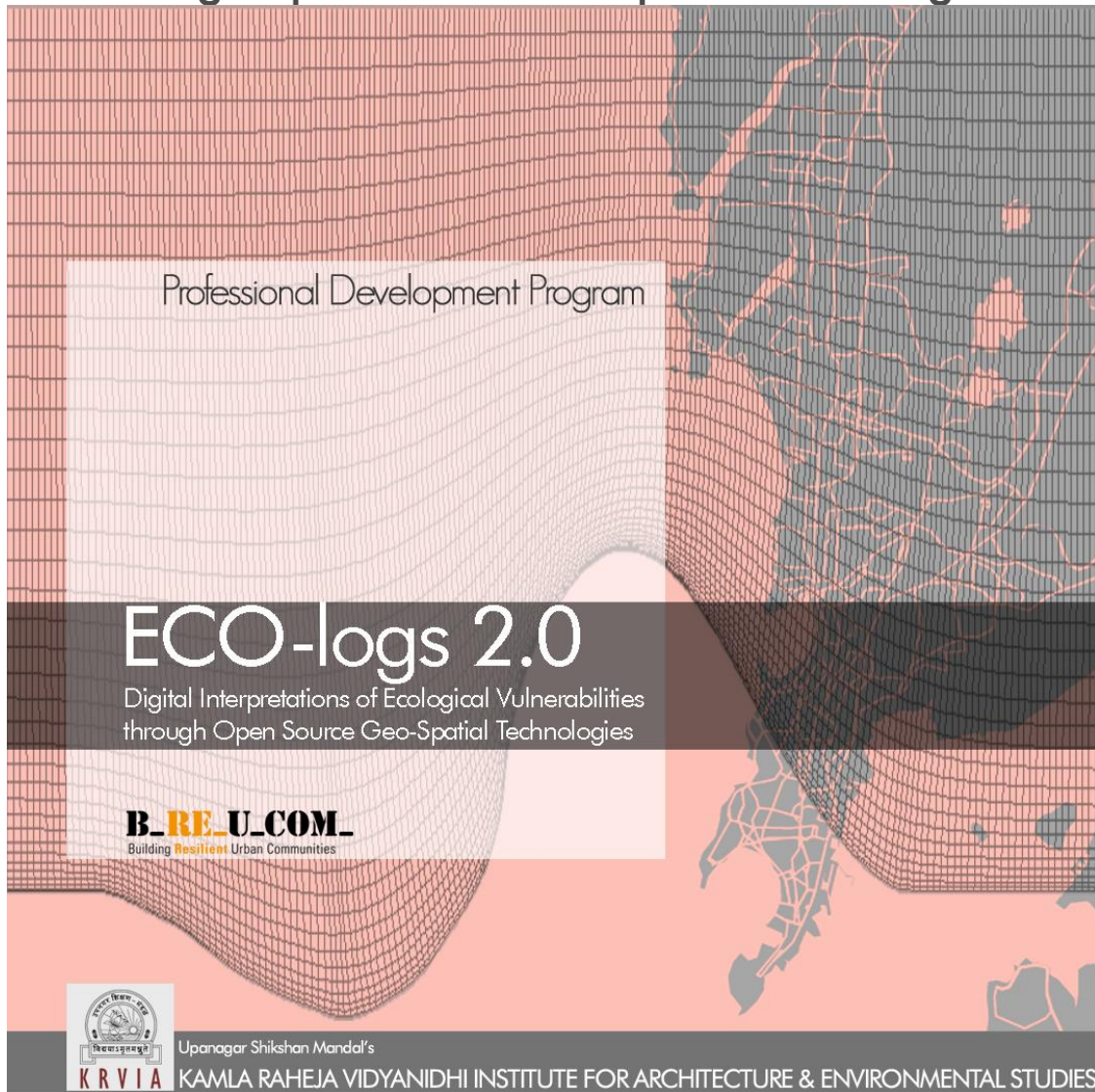






ECO-Logs 2.0

Digital Interpretations of Ecological Vulnerabilities through Open Source Geo-Spatial Technologies



Description of course

Aim:

To focus on visualizing, analyzing and interpreting environmental data using the open source platform Q GIS (Geographical Information System).

Course Objectives:

- To introduce participants to using open source geospatial mapping technologies.
- To equip participants a basic understanding of mapping vulnerabilities in the cities and peri-urban areas of the global south
- To map ecological vulnerability as a sample output for use in spatially-oriented adaptation planning



Learning Outcomes:

The participants will be able to:

- use open-source technologies to map the urban landscape
- organize the concepts of working with layers and attributes
- analyse the mapped data to generate logical learnings from the site

Course Structure

Course Duration:

14.5 hours spread over 2 days

Course Frequency:

Once a Year

Course Format:

The programme is designed as a series of online lectures by the instructors, followed by a discussion with the participants.

Participants are encouraged to interact with the instructors during the interactive session.

Course Content

Prerequisites for Participation:

The participants with a Bachelor's degree in Architecture/Planning. Participants enrolled in Postgraduate programs in Architecture, Landscape Architecture, Urban Design, Urban Planning, Conservation, or related fields will be given priority. Other applicants with a keen interest in Urban Studies can also apply.

Course Syllabus:

The participants shall work together with the mentors, to conceptualize the investigative and mapping process of ecological vulnerabilities and strategize on building resilience in the given situations, in selected sites.

Session 1 Introduction to Q GIS-Fundamentals

Session 2 Q GIS-Basics operations

Session 3 Introduction to Case Sites & Working Session

Session 4 Mapping Workshop

Session 5 Final presentation by participants and Concluding Session



Course Assignments:

The participants are expected to work hands-on in smaller groups on the Open Source Q-GIS Platform with the base data provided by the institution to come up with layered geo referenced maps which the participants will use to analyze and get answers.

Expected Time Spent on Course:

Time spent in hours: 12 hours 30 minutes

Time spent in ECTS (European Credit Transfer and Accumulation System): 0.5 ECTS

Course Grading

Assessment Criteria and Distribution of Marks:

The final presentations by the participants and the work they conducted and their understanding of the topics discussed are assessed

Course Evaluation

Evaluation Procedure & Criteria:

Deans and Academic advisors evaluate and comment upon the PDP structure before the course is conducted after the PDP, participant evaluation feedback analysis obtained through the feedback forms is made available to the PDP team.

Faculty Evaluation:

Interaction during the presentation by the mentors

Participant Evaluation:

Standard form has been made available at the end of the session for the participants to fill it and to suggest their learnings as well as regarding the points of improvements for the course.