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KRVIA

PDP

B_RE_U_COM_
Building Resilient Urban Communities

KRVIA

CENTRE FOR URBAN AND REGIONAL EXCELLENCE

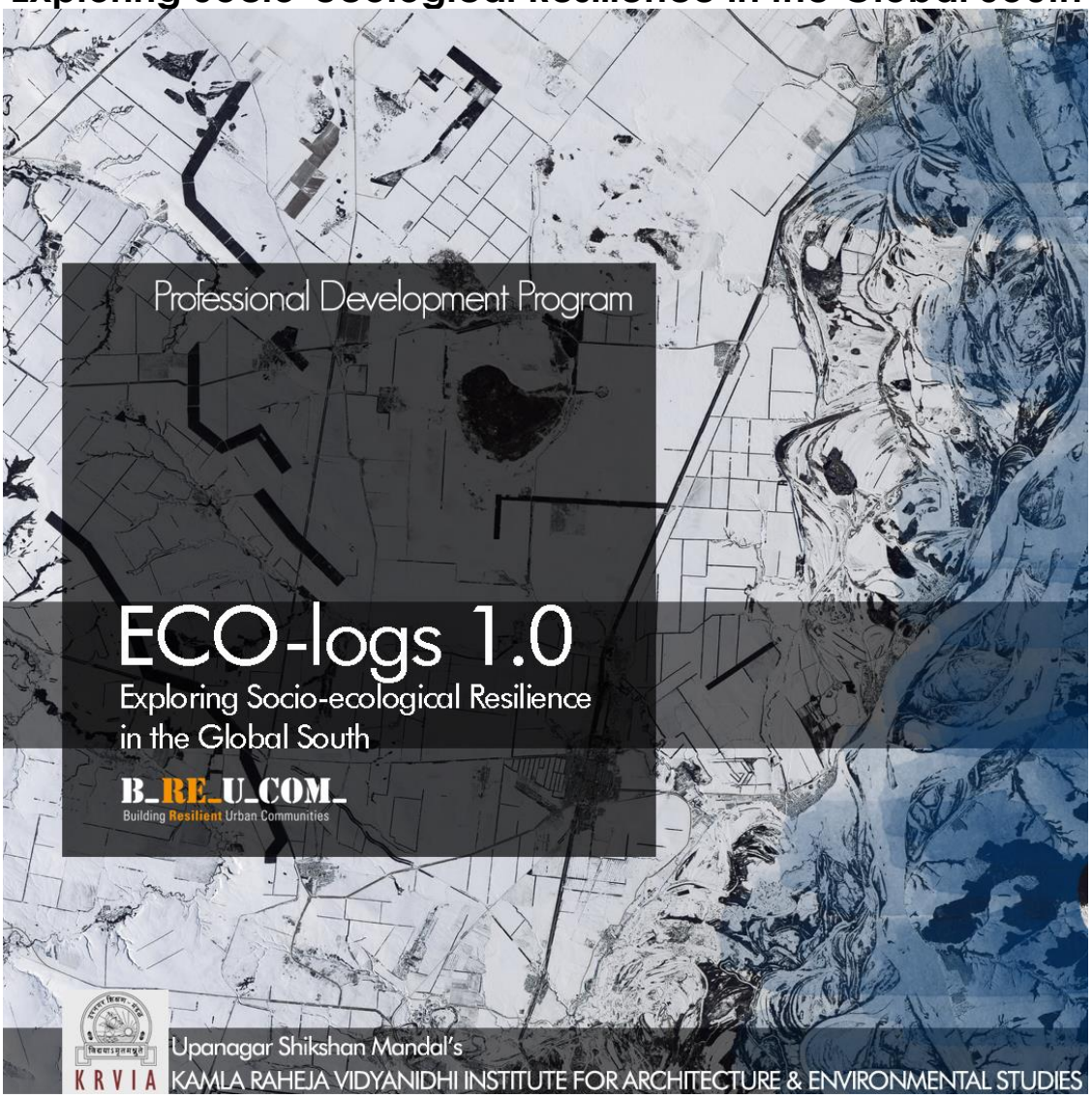
SPARC

UNIVERSITY OF TWENTE. | ITC

Co-funded by the Erasmus+ Programme of the European Union

Eco-LOGS 1.0

Exploring Socio-ecological Resilience in the Global South



Description of course

Aim:

To sensitize the participants to concepts of socio-ecological resilience in the light of increased flooding and other climate catastrophes in the cities of the global south and introduce them to the possibilities of employing open source geospatial technologies for documenting and analyzing the learnings from the site.

Course Objectives:

To sensitize participants regarding the concept of socio-ecological resilience
To equip participants a basic understanding of mapping vulnerabilities in the cities and peri-urban areas of the global south
To provide an international perspective to mapping vulnerabilities using open-source technologies
To introduce participants to using open source geospatial mapping technologies.

Learning Outcomes:

The participants will be able to:

Discern the socio-ecological dependencies while reading the urban landscape
Articulate the concepts of socio-ecological resilience
Appreciate the role of open-source technologies in decision making
Assess the repercussions of stakeholders in ensuring community resilience

Course Structure

Course Duration:

10 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 Couse is designed as a series of lecture presentations followed by interactions with the participants:

a. *Introductory Lecture: Contemporary Thoughts on Socio-ecological Resilience*

b. *KRVIA Academic Explorations with Urban Flooding- Post graduate Participant presentations of successful use of GIS based ecological Studies as part of the studio.*

   1. *Urban Flooding, Mumbai Suburban, Maharashtra*
   2. *Wetland Ecosystem: Aluva, Kerala*

c. *International Perspectives: Mapping Vulnerabilities – Presentations by Faculty from ITC | Faculty of Geo-information Science and earth Observation, University of Twente, Netherlands*
d. *Open Source Geographical Information Systems: Perspectives and Applications.*

e. *Application of GIS for Urban Waters and related Heritage Conservation.*

Course Assignments:

The participants were encouraged to conduct research on the topics presented during the presentations and discuss them in the concluding session.

Expected Time Spent on Course:

Time spent in hours: 12.5 hours

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

Course Grading

Assessment Criteria and Distribution of Marks:

Class Discussions on the last session based on the research the participants were asked to conduct and attendance of all sessions.

Course Evaluation

Evaluation Procedure & Criteria:

Deans and Academic advisors evaluate and comment upon the course structure before the course in conducted.
After the course, participant evaluation feedback analysis obtained through ERP is made available to individual
faculty.

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.