Education and Capacity Building to support Global Geospatial Information Management

UN GGIM Side Event (virtual), 18 August 2021

Presented by Serena Coetzee, University of Pretoria, South Africa
Innovation in Education

A few examples...
Webinars or online workshops

AI for Good
https://aiforgood.itu.int/speaker/maria-antonia-brovelli/

Mapping for a sustainable world
https://icaci.org/watch-first-ica-webinar-mapping-for-a-sustainable-world/

ISPRS 2020 Lecture Day

UN Open GIS Initiative's Series of Online Workshops

- Reach a wide audience
- Online interaction / questions
- Recordings are available afterwards
- No travel funding required ;-)
OpenStreetMap

- mapathons
  - arranged e.g. by Missing Maps, HOTOSM, YouthMappers or Geochicas

- Students can work with ‘real’ data

- Raises awareness of humanitarian challenges

- Opportunity to socialize locally and with students across the world

- Can be used to support teaching about other issues, e.g. SDGs, developmental issues
Collaborative remote teaching

• iPOLE 2019/2020
  • 30 students, 4 countries, 5 disciplines
    • University of Applied Sciences and Arts Northwestern Switzerland (organizer)
    • University of Pretoria, South Africa
    • Northumbria University, UK
    • Harbin Institute of Technology, China

• Student projects
  • 4-6 students per team, different universities, countries, disciplines
  • Task defined in collaboration with Kanton Aargau (funder)
  • Supported by international experts and local mentors
  • Final deliverable:
    • Interactive prototype (incl. visualization) for attracting skilled employees / prevent brain drain

Virtual/remote team work
Working across time zones
Working with other disciplines / backgrounds
Soft skills
  People skills and the importance of communication
  Compromise and conflict resolution
  Proper planning and intermediate milestones
Collaborative remote teaching

• Development and GIS (currently running)
  • International development is likely to have more successful outcomes if technology and community are integrated into project planning, implementation and monitoring/evaluation from the outset. In this course, we will critically examine the role and use of both geographic information and data visualization technologies. We will assess the opportunities and challenges in the use of such technologies, particularly when used in a participatory manner.

• West Virginia University, US
  • lectures and assessment material

• University of Pretoria and University of Limpopo, South Africa
  • own student administration: marking, hardware/software set up, administration of exams and grades
Innovation in Education

How can Academic Network members contribute and/or benefit?
Thank you

You are welcome to contact us for further information
unngim.academicnetwork@gmail.com
or
serena.coetzee@up.ac.za