EENSAT Learning Management System Mirror at ITC

Dashboard / Courses

Manage courses

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Geo Information and Earth Observation support courses

- Image acquisition using drones
- Photogrammetry applied to drone image acquisition
- EUMETCast for African Users
- Use of Water-Food Security Ethiopia Toolbox
- Free and open source tools for GI-Science - GDAL, QGIS and ILWIS 386
- Use of images acquired from medium resolution satellites

Pedagogic Training

- Training skills
- Blended learning and distance education skills

Education Management Training

- Curriculum review support
- Education quality assurance
- Education management and administration
- Establish and maintain an LMS
- IT support for computer cluster maintenance

Research Skills

- MSc level academic and professional (information) skills

Research support courses

- Basic (spatial) statistics
- Basic scripting and programming

Other Courses

- Map API and Hackerton DE and onsite
- Demo development
- App development DE and onsite

Special Courses and Case Studies

Practical and Lab Data

- How to measure LAI using Ceptometer, estimation of biomass
- How to measure, transfer and use data collected from Climatological stations, example Automatic meteorological stations Atmos 41
- DGPS measurements for drone image (ortho) rectification / map production
- Use of meteo data from automatic weather stations
- Internet of Things for near real time soil moisture observation
- • Ground truth data collection and development of appropriate sampling scheme / strategy

Case Studies

- Link in-situ and satellite derived products, example rainfall using meteo-station and CHIRPS-V2 rainfall product
- Calculation of water productivity using WaPOR database
- Linking in-situ surface soil moisture observations with satellite soil moisture observations
- Multi-temporal assessment of wetland dynamics from satellite images
- Mapping watershed conservation measures from high resolution satellite images
- Start and End of Season and phenology mapping using rainfall and NDVI products

Application and Special Courses

- Volume determination of lake Tana using bathymetry and altimetry
- NDVI time series analysis and anomaly mapping
- Multi-Hazard Risk assessment and understanding disaster
- Satellite based Evapotranspiration estimations
- Satellite based crop insurance
- Spectral and multi-temporal approach to satellite image classification

Add a new course