Topic: Conservation of subterranean fauna in Zanzibar Island
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	Topic name	**Learning outcomes** Participants should be able to:	**Learning activities / Assignments**	**Basic learning materials**
Day 1	Introduction to subterranean fauna in Zanzibar	• Define subterranean fauna • Distinguish the two major groups of subterranean fauna • Identify species of subterranean fauna found in Zanzibar	• Lecture on the subject • Reading handbooks, leaflets and web pages • Lab work on identification of subterranean species using morphometric techniques (in groups)	• Open access resources: Google scholar, UN archives ResearchGate, American National Archives. • Biology lab manual • Taxonomic key
Day 2	Introduction to geospatial techniques for conservation	• Define basic terms in geospatial science • Access freely available remote sensing data • Use open source platforms for geospatial analysis	• Lecture slides • Download Landsat and Sentinel-2A satellite imagery from Earth Explorer USGS/NASA, ESA • Getting familiar with GRASS, QGIS and R	• Computer lab equipped with relevant software – R, QGIS, GRASS • Web page links https://www.r-project.org/help.html https://docs.qgis.org/2.8/en/docs/user_manual/

Day 3	Spatial distribution of subterranean fauna in Zanzibar Island	• Project and transform geo-referenced data • Classify major land cover types around coastal zones • Map the distribution of subterranean fauna	• Preparation of field data • Identification of major land cover types • Collection of training data • Land cover classification using Support Vector Machine methods (all done in groups)	• Existing field data • Google Earth for collection of training data for land cover classification • R online help for SVM methods
Day 4	Identification of major threats to subterranean fauna in Zanzibar Island	• Establish the natural and anthropogenic threats to subterranean fauna	• Lecture slides • Literature review • Group discussion based on map generated previously	• IUCN Red List • Environmental Factor Guideline: Subterranean species • Google scholar
Day 5	Propose conservation strategies for subterranean fauna using geospatial techniques	• Apply GIS techniques (buffers and overlays) to correlate land cover and subterranean fauna distribution • Recommend appropriate management practices for conservation of subterranean fauna	• Group work • Group presentation on findings	• QGIS, R • ESRI Story Maps