Course Number and Name: GGYE 202 Advanced Physical Geography

Intended Learning Outcomes: At the end of the course students will be able to display their understanding of the bio-physical components of the environment.

Course Contents:
- Geomorphology: the geomorphic system; weathering and soil formation; landforms.
- Climatology and hydrology: main elements of climate; atmospheric process and weather systems; global wind system; climate change causes and impacts, meteorological observation and data analysis.
- Hydrology: stream network analysis; stream flow dynamics; human impact on the hydrological cycle; surface and ground water conservation and management strategies.
- Biogeography: the scope of biogeography; historical development of biogeography; biosphere; the theory of island biogeography; the concept of carrying capacity; biogeographic realms; biodiversity degradation; challenges and conservation measures in national and international contexts.

Assessment Strategy:
1. Time of Assessment - End of the Year
2. Assessment Method - Written examination

Assigned percentage for each component - 100%

Recommended References:
- Gabler, R.E., et al., 2007: Essentials of Physical Geography, Thompson, USA.
- Inter Governmental Panel on Climate Change, 2001: Climate Change 2001: Mitigation, Cambridge University Press, UK.