

<b>Course Number and Name</b>	GGYE 202	Advanced Physical Geography
<b>Intended Learning Outcomes</b>	At the end of the course students will be able to display their understanding of the bio-physical components of the environment.	
<b>Course Contents</b>	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 analyze. 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.	
<b>Assessment Strategy</b>	<ul style="list-style-type: none"> <li>i. Time of Assessment - End of the Year</li> <li>ii. Assessment Method - Written examination</li> </ul> Assigned percentage for each component- 100%	
<b>Recommended References</b>	Abbott, P.L. 2006: <i>Natural Disasters</i> , 4th Edition, McGraw-Hill, New York. Ahrens, C.D. 2007: <i>Meteorology Today: An Introduction to weather, climates and the environment</i> , 8 <sup>th</sup> edition, Thomson, USA. Ahrens, C.D. 2005: <i>Essentials of Meteorology: An invitation to the Atmosphere</i> , 4th Edition, Thomson, USA. Chapin III. et al. 2002: <i>Principles of Terrestrial Ecosystem Ecology</i> , Springer – Verlag, New York. DWC. 2001: <i>A Guide to National Parks in Sri Lanka</i> , Department of wild life conservation, Sri Lanka. Gabler, R.E., et al., 2007: <i>Essentials of Physical Geography</i> , Thompson, USA. Inter Governmental Panel on Climate Change, 200 1: <i>Climate Change 200 I: Mitigation</i> , Cambridge University Press, UK.	

Huggett, R.J., 1998: *Fundamentals of Biogeography*, Routledge, New York.

Kevin.T. Pickering and Lewis, A. Owen, 1994: *An Introduction to Global Environment Issues*, Routledge, London.

John, E. Oliver, John Hidore 2003: *Climatology: An atmospheric science*, Person Education India.

Monroe, J.S., & Wicander, R., 2006: *The Changing Earth*, Exploring Geology and Evolution, Thompson, USA.

Ritter, D.F. 1998: *Process Geomorphology*, (2<sup>nd</sup> edition), William, C. Brown, Dubuque: Iowa.

Strahler, A. & Strahler, A., 2005: *Introducing Physical Geography*, 3<sup>rd</sup> edition, John Wiley & Sons Inc. New York.