

<b>Course Code</b>	BYU5318					
<b>Level</b>	05					
<b>Course Title</b>	Environmental Studies					
<b>Credit value</b>	03					
<b>Core/Optional</b>	Optional					
<b>Prerequisites</b>	None					
<b>Hourly breakdown</b>	<b>Theory</b>		<b>Practical</b>	<b>Independent Learning</b>	<b>Assessment</b>	<b>Total</b>
	(20 Sessions) 2 x 20 40 hrs	(3 DSs) 3 X 3 09 hrs	00 hrs	Sessions 20 [60 hrs]+ Online [25 hrs] + recommended readings [15 hrs] 20 X 3 = 60 100 hrs	(2 CAT x 1hr)  02 hrs	151 hrs
<b>Course Aim/s.</b>	To provide an understanding on how the complex earth system works at a level that will encourage students to think creatively about earth system processes and how to address multidisciplinary environmental problems					
<b>POs addressed by course</b>	<p><b>PLO1: Knowledge:</b> Explain the fundamental, principles and broader knowledge pertaining to the chosen science disciplines offered for the degree.</p> <p><b>PLO2: Practical Knowledge and Application.</b> Demonstrate the competency to use the knowledge and practical skills appropriately.</p> <p><b>PLO3: Communication:</b> Demonstrate the competency in communicating efficiently and effectively to present information, ideas and concepts to the scientific community as well as to the wider society.</p> <p><b>PLO6: Adaptability and Flexibility:</b> Demonstrate the ability to adapt to diverse working environments using flexible approaches and strategies.</p> <p><b>PLO8: Vision for Life:</b> Develop the capacity to project for future through identifying self-directed goals and continuously targeting towards them for self-improvement by undertaking further studies.</p> <p><b>PLO9: Lifelong Learning:</b> Develop the capacity to foresee new trends and their impacts and continuously update knowledge and develop skills willingly to meet those future challenges.</p>					
<b>Course Learning Outcomes (CLO)</b>	<p>The students should be able to:</p> <p>CLO1: identify the major environmental processes and human activities that influence the environment(PLO1)</p> <p>CLO2: recognize the interconnectedness of multiple factors in environmental challenges(PLO1 and PLO3)</p> <p>CLO3: engage constructively with diverse forms of knowledge and experience and identify the multiple scales of an issue(PLO 2, 3 &amp; 6)</p> <p>CLO4: familiarise and get a thorough understanding on the existing national laws, global conventions and relevant global policies (PLO1 and PLO8)</p> <p>CLO5: identify assumptions inherent in arguments and perspectives and sustainable solutions using multidisciplinary approaches(PLO6, 8 &amp; 9)</p> <p>CLO6: evaluate and interpret various forms of evidence, including text, data, and other media about the environment(PLO2)</p> <p>CLO7: communicate clearly and competently matters of environmental concern and understanding to a variety of audiences in appropriate forms(PLO3 &amp; 8)</p>					
<b>Content (Main topics, sub topics)</b>	<p>An introduction to the Environmental Science, The lithosphere, The Atmosphere, Hydrosphere</p> <p>Structure of the Biosphere, Processes in the biosphere, Interactions among spheres</p> <p>Resources of the environment – Mineral resources, Energy resources, Aquatic Resources, Living Resources of the Environment, Human Population and Environmental Problems, Atmospheric Pollution, Global Atmospheric Problems, Water Pollution, Solid waste and their management</p> <p>Soil and Land Degradation, Environmental Management 1 – Environmental Policies</p> <p>Environmental management II – Environmental Impact Assessment, Environmental Ethics and Philosophy</p>					
<b>Teaching Learning methods</b>	<p>Independent Learning</p> <ul style="list-style-type: none"> <li>▪ Self- Instructional material:</li> <li>▪ Course material,</li> <li>▪ Online components,</li> <li>▪ Recommended readings</li> </ul> <p>Compulsory contact sessions</p> <ul style="list-style-type: none"> <li>▪ Continuous assessments and feedback: MCQ, SEQ, ES</li> </ul>					

	Non-compulsory(Optional) contact sessions – <ul style="list-style-type: none"> <li>▪ Day schools (DS)</li> </ul>	
<b>Assessment strategy</b>	Overall CA Mark (OCAM): 40%	Final Assessment: 60%
	Theory and interpreting skills (100%): MCQ/SEQ/EQ – 1 x 2 hrs 70% higher mark OBT/NBT (1 h) + 30% Other mark OBT/NBT(1 h)	Final Evaluation One theory paper (100%) 2 Hours
<b>Recommended Readings:</b>	<ul style="list-style-type: none"> <li>• MahMahaua Basu, Xavier Savarimuthu, SJ, Fundamentals of Environmental Studies, Cambridge University Press, Jul 31, 2016</li> <li>• Erach Bharucha, Textbook of Environmental Studies for Undergraduate Courses, Amazon Press, (ISBN13: 9788173715402)</li> <li>• Daniel B. Botkin, Edward A. Keller, Environmental Science: Earth as a Living Planet by Hardcover: 752 pages, Publisher: Wiley</li> </ul>	