## **Sustainable Ecotourism Planning using Geospatial Technologies**

	Topic Name	Learning Outcomes	<b>Learning Activities / Assignments</b>	Basic learning materials
Day 1	Introduction to Geospatial Technologies and Principles of Ecotourism.  Application of Geospatial Technologies in Ecotourism	<ul> <li>To explain basic concepts of Ecotourism</li> <li>To understand the fundamental concepts of Geospatial Technologies.</li> <li>To analyse different strategies for incorporating Geospatial Technologies in Ecotourism Planning</li> </ul>	<ul> <li>Introduction</li> <li>Lectures</li> <li>Group discussion and feedback</li> <li>Getting familiar with soft wares: QGIS, R</li> </ul>	<ul> <li>PowerPoint slides</li> <li>Web pages:         The international Eco-tourism society         <a href="https://ecotourism.org/what-is-ecotourism/">https://ecotourism.org/what-is-ecotourism/</a></li> </ul>
Day 2	Field trip	<ul> <li>To identify the characteristics of the study area</li> <li>To identify tourism resource inventories</li> </ul>	<ul> <li>Focus group discussion about the ecotourism resources.</li> <li>Field observations</li> <li>Collection of GPS coordinates</li> </ul>	<ul> <li>Handheld GPS device</li> <li>Cameras</li> <li>Binoculars</li> <li>Topographic map</li> </ul>
Day 3	Method and practice of Geospatial Technologies in Ecotourism Planning	<ul> <li>To carry out geospatial data entry, storage and manipulation.</li> <li>To produce map with suitable ecotourism locations</li> </ul>	<ul> <li>Lab session</li> <li>Produce a map showing tourist routes, suitable areas for waste disposal and potential sightseeing.</li> </ul>	QGIS <a href="https://www.qgistutorials.com/en/">https://www.qgistutorials.com/en/</a>
Day 4	Group Project	<ul> <li>To interpret information about ecotourism resources of the area</li> <li>To assess land use land covers change associated with ecotourism practice using GIS &amp; RS.</li> <li>To produce a sustainable ecotourism plan</li> </ul>	solving methodology	<ul> <li>Computer lab</li> <li>QGIS <a href="https://www.heise.de/download/product/quantum-gis-qgis-51397">https://www.heise.de/download/product/quantum-gis-qgis-51397</a></li> <li>R studio</li> <li>Story Map <a href="https://storymaps.arcgis.com/">https://storymaps.arcgis.com/</a></li> </ul>
Day 5	Presentation of Results	To evaluate the results of geospatial technology integration in ecotourism planning	<ul><li> Group work</li><li> Group Presentation</li></ul>	Story Map <a href="https://storymaps.arcgis.com/">https://storymaps.arcgis.com/</a>