

Prerequisite status: -	Unit Type: Theoretical/practical	The number of units: 2	Name of the lesson: Advanced GIS analysis in tourism planning
Type of additional practical training: Has it <input checked="" type="checkbox"/> does not have <input type="checkbox"/> Science travel <input type="checkbox"/> Laboratory <input checked="" type="checkbox"/> Workshop <input checked="" type="checkbox"/> Seminar <input type="checkbox"/>		The number of hours: 48	Expert professor to teach: Geographer with Gis expertise in tourism
Goals: Students are familiar with spatial statistical analysis of tourism using geographic information systems, based on which they can analyze scenarios faster and provide decision-making options in the field of tourism.			
Headlines 1- Geographic information system and its application in tourism studies 2- Big data, geographic information systems, and smart tourism 3- Features of geographic information system and how to use it for tourism media and virtual spaces, construction, and operation of the comprehensive tourism information database 4- Spatial modeling of tourism data 5- Spatial analysis of tourism data (Go processing analysis) 6- Spatial-statistical analysis of tourism data (Spatial autocorrelation, spatial patterns, cluster analysis, hot spot analysis, etc.) 7- Spatial analysis of tourism, flows, and access routes of tourists to the attractions of destinations 8- Identification and feasibility of zones for various types of tourism 9- Evaluation models of destinations for the development of various types of tourism, such as decision models (RBF, OWA, Fuzzy, WLC) 10- Smart tourism destinations and geographic information systems analyzes to identify tourists' spatial-behavioral patterns			
Reference 1- Farajzadeh Manouchehr, geographic information system and its application in tourism planning, Samt Publications, 2008 2- Asgari, Ali, Spatial statistics analysis with ArcGIS, Urban Processing and Planning Company, 2011 3- Ismailnejad, Morteza and Fahima Shahraki, application of remote sensing and geographic information system in tourism planning, satellite publications, 2015 4- Chaudhuri, Somnath, Ray, Nilanjan, 2018, GIS Applications in the Tourism and Hospitality Industry, Business Science Reference Press. 5- Virendra Nagarale, 2011, Gis Approach for Tourism Development, LAP LAMBERT Academic Publishing			

- 6- Katsoni, Vicky, Segarra-Oña, Marival, 2018, Smart Tourism as a Driver for Culture and Sustainability, Fifth International Conference IACuDiT, Athens, 2018
- 7- Sultan Sevinç KURT, The Role and Importance of Tourism Information System in Urban Tourism Planning, book chapter, ۲۰۱۶
- 8- Verka Jovanović, 2011, The Application of GIS and its component in Tourism, Yugoslav Journal of Operations Research 18(2):2۶۱-۲۷۲
- ۹- Zhang, G., Lu, J. and Gao, Y. (۲۰۱۵); Multi-level decision making: models, methods and applications, Springer.
- 10- Mansir Aminu, A Geographic Information System for Sustainable Tourism Planning: An integrated approach, 2009.