

Prerequisite status: -	Unit Type: Theoretical	The number of units: 2	Name of the lesson: Evaluation of natural resources in the spatial planning of rural areas
Type of additional practical training: Has it <input checked="" type="checkbox"/> does not have <input type="checkbox"/> science travel <input checked="" type="checkbox"/> Laboratory <input type="checkbox"/> Workshop <input type="checkbox"/> , Seminar <input type="checkbox"/>		The number of hours: 32	Expert professor to teach: Geography and rural planning/ Familiar with the natural geography
Goals: Training and improving the ability of students in the field of knowledge of rural natural resources and their evaluation in the spatial planning process of rural areas			
Headlines 1- Knowing and defining natural resources 2- Types of natural resources in rural areas (water, soil, vegetation, ...) 3- The position of natural resources in spatial planning of rural areas 4- Natural resource management theories 5- Factors affecting the management of natural resources in rural areas - Rules and Regulations - Social (participation) and cultural factors - Construction and infrastructure plans - Economic factors, subsistence, cost, and benefit - Technological and technological factors - Geographical and spatial factors 6- Natural resources assessment methodology in rural areas 7- Natural resources assessment techniques and models 8- Implementation of a natural resource assessment project in rural areas			
Reference 1- Mossadegh, Ahmad (2018), evaluation of natural resources in the world, published by Mr. Ketab 2- Boyd, Imli and Carl Folke (2018) Institutional Adaptation; Cooperation, Social-Ecological Complexity, and Resilience, translated by Mehdi Ghorbani, Tehran University Press. 3- Engel, Antonia and Benedict Korf (2018) Negotiation and Mediation Techniques in Natural Resources Management, translated by Mehdi Ghorbani, Hossein Badripour, Vahid Jafarian, and Ali Akbar Damavandi, Jihad University Press, Tehran. 4- Paul Westell, Claudia (2018) Water governance in the face of global change, translated by Mehdi			

Ghorbani, Tehran University Press.

5- Badin, Orjan and Christina Pearl (2017) Social networks and natural resources management, translated by Mehdi Ghorbani and Vahid Jafarian, Tehran University Press.

6- Vakarov, Ismail; Aldin Smith, Eric and Shankar Asovani (2017) Environmental Social Sciences, translated by Mehdi Ghorbani, Hossein Azarnivand and Adila Khavar, Tehran University Press.

7- Rezvani, Mohammad (2014), Laws of Management and Natural Resources. Payam Noor Publications.

8- Shamekhi, Taghi (2017), laws and management of natural resources (forests and pastures), Tehran University Publications

9- Aghajanlou, Esmail (2017), collection of laws and regulations of natural resources, published by Majd

10- V. Ratna Reddy, Matthew Kyorin, Reza Ardakanian, Mohammad Reza Elmi, Maryam Rajaei Sharifabadi, Marzieh Mortezaei (2019), life cycle assessment for natural resources management, Yazd University Press.

11- Shah Vali, Mansour (2014), New theories of management of extension and education of agriculture and natural resources, Shiraz University Publications.

12- Ayubi, Shamsullah, Jalalian, Ahmad) 2014 (Evaluation of lands (agricultural use and natural resources)) Isfahan University of Technology publisher

13- Towfiq, Firouz (2005) Spatial planning: global experience and its adaptation to Iran's situation, Publications of the Center for Studies and Research of Architecture and Urban Development of Iran

14- Brebbia, C. A., Tiezzi, E., & Conti, M. E. (Eds.). (2006). Management of natural resources, sustainable development and ecological hazards (Vol. 99). Wit Press.

15- Stankey, G. H. (2005). Adaptive management of natural resources: theory, concepts, and management institutions (Vol. 654). US Department of Agriculture, Forest Service, Pacific Northwest Research Station.

16- Carter, J. (1996). Recent approaches to participatory forest resource assessment. Overseas Development Institute (ODI).

17- Dent, D., Dubois, O., & Dalal-Clayton, B. (2013). Rural planning in developing countries: supporting natural resource management and sustainable livelihoods. Routledge.

18- Smith, R. S. (1982). The use of land classification in resource assessment and rural planning. Institute of Terrestrial Ecology.