

Prerequisite status: -	Unit Type: Theoretical	The number of units: 2	Name of the lesson: Synoptic analysis of Iran's climate
Type of additional practical training: Has it <input checked="" type="checkbox"/> does not have <input type="checkbox"/> science travel <input type="checkbox"/> Laboratory <input type="checkbox"/> Workshop <input type="checkbox"/> , Seminar <input type="checkbox"/>		The number of hours: 32	Expert professor to teach:
Goals: Acquaintance of students with the characteristics of the synoptic climatology of Iran			
Headlines 1- Introduction and history of synoptic studies in Iran 2- The situation of Iran and the effective components of general atmospheric circulation in it 3- Effective pressure centers on Iran's climate 4- Air masses, identification methods, their types, and temporal and spatial behavior 5- The effect of unevenness on air masses migrating to Iran 6- Synoptic systems of the cold and warm periods of Iran 7- Synoptic types, ground surface, middle levels, and upper levels of the Troposphere of Iran 8- Synoptic phenomena and their environmental effects in Iran 9- Synoptic analysis of moisture sources of rainfall in Iran 10- Synoptic analysis of cold waves and heat waves in Iran 11- Synoptic analysis of sand storms and dust storms in Iran 12- Synoptic systems affecting the local climates of Iran 13- Air pollution in Iranian metropolises about synoptic climate 14- Agroclimatic effect of synoptic phenomena 15- Synoptic climatology of destructive phenomena in Iran: Heavy rains, hail, frost, etc 16- Applications and fields of development of synoptic climatology in Iran			
Reference 1- Farajzadeh, Manouchehr, 2013, Climate Hazards of Iran, Samt 2- Salighe, Mohammad, 2016, Synoptic climatology of Iran, Samt 3- Alijani, Bohlul, 1995, Climate of Iran, Payam Noor University Press 4- Masoudian, Seyyed Abulfazl, 2011, Climate of Iran, Tos Sharia.			