

Prerequisite status: -	Unit Type: Theoretical	The number of units: 2	Name of the lesson: Dynamic climatology
Type of additional practical training: Has it <input 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: climatology
Goals: Acquaintance of students with the concepts and applications of dynamic climatology			
Headlines 1- Ideal gas, heat, and thermodynamic laws 2- Dimensions of atmospheric variables and their measurement and calculation framework 3- Potential temperature 4- Atmospheric pressure and Groundwater equation 5- Relationship between pressure, temperature, volume, and structure of the atmosphere 6- Airflow, wind (Pressure-gradient force, Gravity, Friction, Centrifugal, Coriolis, and...) 7- Convergence and divergence 8- vorticity 9- General flow models 10- the jet stream 11- Stability and instability of the atmosphere			
Reference 1- Lashkari, Hassan, 2015, Dynamic Climatology, Shahid Beheshti University Publications. 2- Masoudian, Seyyed Abolfazl, 2013, Atmospheric Dynamics in Middle Latitudes, Isfahan University Press 3- Omidvar, Kamal, 2014, Dynamic Climatology, Yazd University Publications 4- Barry Roger G. and Careton Andrew M., 2001, Synoptic and dynamic climatology, Rutledge Publication.			