

Prerequisite status: -	Unit Type: Theoretical	The number of units: 2	Name of the lesson: Remote sensing and GIS programming
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 type="checkbox"/> Seminar <input type="checkbox"/>		The number of hours: 32	Expert professor to teach: RS & GIS
Goals: Acquaintance with basic programming concepts in remote sensing and geographic information system			
Headlines 1- Definition and concept of algorithm writing and flowchart preparation 2- Problem-solving by programming method 3- Variables, expressions, and commands in Python 4- Functions in Python programming 5- Conditionals and recursion in Python programming 6- Resultant functions in Python programming 7- Repetition in Python programming 8- Courses in Python programming 9- Lists in Python programming			
Reference 1- Sadeghi Niarki A., 2015, Python programming for engineering especially GIS, Khaje Nasiruddin Tusi University Publications. 2- Zandergeb P. A., 2013, Python scripting for ArcGIS, ESRI Press. 3- Pimpler E., 2015 Programming ArcGIS with Python cookbook, Packt publishing.			