

Prerequisite status:  -	Unit Type:  Theoretical	The number of units:  2	Name of the lesson:  <b>Techniques and models in Geomorphology</b>
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 checked="" type="checkbox"/> Seminar <input checked="" type="checkbox"/>		The number of hours:  32	
<b>Goals:</b> Building students' skills in familiarization and application of methods and techniques			
<b>Headlines</b>  <div>1- Generalities and definitions (presentation of epistemological devices and models of research methods) and familiarity with various techniques (in epistemological fields)</div> <div>2- Defining and understanding the problem, collecting data, specifying the evaluation criteria and indicators, formulating the model and creating a connection between the criteria and indicators, evaluating the process and the investigated problem, and checking the accuracy and performance of the planned model.</div> <div>3- Examining types of mathematical models and possible mathematical models, experimental models (natural models in geomorphology, linear and non-linear models, random models in geomorphology)</div> <div>4- Modeling the changes in landforms and geomorphic systems using mathematical and equilibrium models</div> <div>5- The use of software techniques in geomorphological analysis and the use of statistical software</div> <div>6- AHP method and TOPSIS, SWOT, and Multivariable techniques in classifying and evaluating environmental systems.</div>			
<b>Reference</b>  1- Bahram Azad Bakht, (2016), Geomorphology Techniques, Aizh Publications  2- Lucy Clarke & Jo Nield., Geomorphology techniques, 2012, Routledge.  3- Geomorphology techniques, 1990, Andrew Goudie, Routledge Press.  4- Kampf, S. K., & Miruse, B. B. M. (2013), Treatise on Geomorphology. In Elsevier Inc.  5-			