

Prerequisite status: -	Unit Type: Theoretical/practical	The number of units: 2	Name of the lesson: <b>Citizen-centric GIS</b>
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:	Expert professor to teach: GIS
<b>Goals:</b> Familiarizing students with the new generation of GIS, citizen-oriented GIS.			
<b>Headlines</b> 1- Concept of citizen-centered, participation and interaction, the definition of citizen-centered GIS. 2- Citizen-oriented GIS and smart cities, citizen-oriented GIS components 3- Types of citizen-centric GIS data, Assessing the quality of citizen-oriented GIS data 4- Types of citizen-oriented GIS analysis, Citizen-oriented GIS applications in urban management 5- Mobile-based citizen-centric GIS 6- Extracting information from citizen-oriented data, aggregating citizen-oriented data 7- Types of citizen-oriented systems (Group SDSS, PPGIS, VGI) 8- Methods of persuasion and participation of citizens in citizen-oriented GIS 9- Evaluating the effectiveness of citizen-centered GIS			
<b>Reference</b> 1- Sui D., Elwood, S., & Goodchild M. (eds), 2013, Crowdsourcing geographic knowledge volunteered geographic information (VGI) in theory and practice, Springer Science & Business Media. 2- Elwood S., 2008, volunteered geographic information: future research direction motivated by critical, participatory and feminist, Springer Science.			