Course Content: Spatial Data Analysis (R and QGIS)

	Subject	Type of instruction	Time duration
Day 1	Introduction	Presentation	05:00
	Concepts of data	Presentation	10:00
	Spatial data analysis	Presentation	10:00
	Resources required	Presentation	5:00
	About R Programming	Presentation &	1:00:00
		Computer	
	About QGIS	Presentation & Practical	1:00:00
Day 2	Data Preparation for Spatial Analysis	Presentation & Practical	20:00
	Spatial Analysis Procedures	Presentation & Practical	30:00
	GIS methods – 1 (R and QGIS)	Presentation &	2:40:00
	 Data reading and writing 	Practical	
	 Graphics operation 		
	 Raster calculation 		
	 Raster analysis 		
	 Raster data conversion 		
Day 3	GIS methods – 2 (R and QGIS)	Presentation &	3:30:00
	 Vector geoprocessing 	Practical	
	 Vector geometry 		
	 Vector analysis 		
	Vector data conversion		
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Day 4	GIS methods – 3 (R and QGIS)	Presentation &	2:30:00
	Overlay operation	Computer	
	Raster to vector		
	Sampling Tytraction of values and coordinates		
	Extraction of values and coordinates		
Day 5	GIS operations using Google maps, Open	Presentation &	2:00:00
	Street maps, QGIS and R	Computer	2.00.00
	Conclusion	Presentation	30:00
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