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| **MODULE 1: Introduction to GIS** | |
| **OBJECTIVES** | * Define geographical information systems (GIS) and related terminologies * Analyse the potential uses of GIS * Discuss how to project spatial data in GIS * Create a map with given data (depending on if they will be discussed in the exercises) * Basics of cartography * Create data in GIS * Run a spatial analysis in GIS |
| **METHODS** | Live session, reading material, video’s, links to resources, application exercises, quizzes & discussions |
| **DURATION** | 5 hours for participants |

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| **SESSION** | | | **DURATION** | **PARTICIPANTS…** |
| Online | 1.0 | Introduction to the course | 60 min. | * Get introduced to the course * Get to know each other personally * Receive a first presentation on the concepts of GIS |
| 1.1 | Definition and Key concepts | 25 min. | * Receive a description of GIS and its components and types of geographical projection systems. * Have understood the areas where GIS can be applied to solve real-world problems |
| 1.2 | Spatial data | 35 min. | * Learn about several forms of GIS data and associated properties * Learn about different sources of spatial data and instruments |
| 1.3 | Mapping references | 45 min. | * Are introduced about geographic coordinate systems and projections. |
| 1.4 | Spatial data analysis | 45 min. | * Get an understanding of Spatial Data analysis by learning about the main concepts and tools. |
| 1.5 | Application and Documentation | 95 min. | * Create a map with given data * Create data in GIS * Perform a spatial analysis in GIS * Evaluate different GIS use cases |