



# AGENDA

## FOR ONLINE PRACTICAL MAPPING TO MAP MAKING COURSE 2022

### Prerequisites

- Handheld GPS (or phone with GPS capabilities – not the best user experience)
- Compass & Clinoruler (Optional)
- PC / Laptop
  - Zoom software – Free (for video conferencing)
  - QGIS software – Free (for data processing & map making)
- Internet Access



Presentation



Individual work



Group Work & Feedback








Video











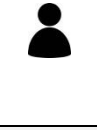
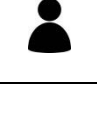
Case Study






Assessment / Test

Day 1		
Time		Activities
8:00	 	<b>1. Introduction</b> <ul style="list-style-type: none"> <li>• Know the participants</li> <li>• Course expectations and purpose, approach, methodology, structure</li> <li>• GIS skill levels and issues faced</li> </ul>
		<b>2. GIS Basics</b> <ul style="list-style-type: none"> <li>• Introduction to GIS</li> <li>• What is GIS?</li> </ul>
10:15		<b>MORNING BREAK</b>
10:30	 	<b>GIS Basics (Continued)</b> <ul style="list-style-type: none"> <li>• Applications of GIS</li> </ul> Case Studies on GIS applications

		<ul style="list-style-type: none"> <li>• GIS components</li> <li>• Types of data</li> <li>• Projections, Datums and Coordinate systems</li> <li>• Challenges and realities of field work</li> </ul>
<b>13:00</b>		<b>LUNCH BREAK</b>
14:00	  	<p><b>3. Field Equipment and Safety</b></p> <ul style="list-style-type: none"> <li>• Equipment</li> <li>• Safety</li> <li>• GPSs <ul style="list-style-type: none"> <li>○ How to use a GPS</li> <li>○ Importing maps into a GPS</li> <li>○ Data types</li> </ul> </li> </ul> <p><i>Practical Exercise in using a GPS (a GPS is required)</i></p>
<b>15:15</b>		<b>AFTERNOON BREAK</b>
15:30		<p><b>4. Mapping Techniques</b></p> <ul style="list-style-type: none"> <li>• Types of maps</li> <li>• Mapping data</li> </ul>

Day 2		
Time		Activities
8:00	  	<p><b>Mapping Techniques (continued)</b></p> <ul style="list-style-type: none"> <li>• Geological data on maps</li> <li>• Map elements (legend, north arrow, scales etc.)</li> </ul> <p><i>Practical exercise of data collection</i></p>
<b>10:15</b>		<b>MORNING BREAK</b>
10:30	  	<p><b>5. Creating a Map (QGIS)</b></p> <ul style="list-style-type: none"> <li>• Importing of data</li> <li>• Editing data</li> <li>• Georeferencing</li> <li>• Topography &amp; contouring</li> <li>• Digitizing data</li> <li>• Map elements and finalizing of map</li> </ul>
<b>13:00</b>		<b>LUNCH BREAK</b>
14:00		<p><b>Make a geological map (practical exercise)</b> (Using QGIS)</p>
<b>15:15</b>		<b>AFTERNOON BREAK</b>
15:30		<p><b>Finalising geological maps</b> (Using QGIS)</p>

		<ul style="list-style-type: none"> <li>• Map QAOC</li> <li>• Map additions (sections &amp; inset maps)</li> </ul>
16:30	  	<p><b>6. Additional Information</b></p> <ul style="list-style-type: none"> <li>• Tips and tricks</li> <li>• Open-source data sources</li> <li>• Remote Sensing (semiautomatic classification)</li> </ul> <p><b>7. Closure</b></p> <ul style="list-style-type: none"> <li>• Assessment</li> <li>• Questions and answer session</li> </ul>