GUIDELINE FOR REPORT OF THE FINAL YEAR GEOSCIENCE PROJECT 2024

CHAPTER	CONTENT	NOTE
COVER	UMK Logo Title of Report Student Name Goal of the report Department, Faculty and University Year of Report	Follow the guideline from FSB (APPENDIX T)
DECLARATION	Declaration Signature Name Date	By the student ## add declaration (no plagiarism)
APPROVAL	Title of report Name and signature of supervisor	The report has to have an approval page signed by the supervisor/s
ACKNOWLEDGMENT	Explain clearly who and institution will be given	
ABSTRACT	In English follow by in Malaysia	Not more halt page each. Containing of study area, purpose and objective of study, method, and conclusion.
TABLE OF CONTENTS	Table of contents List of Figure List of Table List of Symbol List of Abbreviation List of Appendices	
Chapter 1 (General Introduction)	1.1 General Background 1.2 Study Area 1.2.1 Location 1.3 Problem Statement 1.4 Objective 1.5 Scope of study 1.6 Significance of study	Student must provide at least two (2) objectives. Maximum number of objective is three (3) For section 1.2, please include: • A map showing location of the study area with coordinates and road connection from closer city. • A base map of the study area with contour and road connection Research Importance: E.g.: Benefits to the society, or nation, or employment, or science, etc.

Chapter 2 (Literature Reviews)	2.1 Introduction 2.2 Regional Geology and Tectonic Setting 2.3 Stratigraphy 2.4 Structural Geology 2.5 Historical Geology 2.6 Research Specification	2.2 Please elaborate state for regional only 2.3 Research specification review is based on your research title including geology from previous works. Please explain briefly.
Chapter 3 (Materials and Methodologies)	3.1 Introduction -Flowchart must attached here. 3.2 Materials/Equipment 3.3 Methodology 3.3.1 Preliminary studies 3.3.2 Field Studies -Sampling methods 3.3.3 Laboratory work 3.3.4 Data processing 3.3.5 Data analysis and interpretation	Not necessary showing all photographs of geological equipment, just give laboratory if it is very important Describe all the methods in DETAILS for mapping and specification. Please elaborate in details ***each of the method you used.*** Please provide overall research flow chart.
Chapter 4 (Results and discussion)	4.0 Introduction -Brief content of Chapter 4 4.1 Accessibility (in the study area) 4.2 Traversing (Sampling Point/Observation Point/ Measurement Point) 4.3 Landuse 4.4 Lithostratigraphy (see note) 4.4.1. Lithology distribution Unit explanation) 4.4.2. Stratigraphic position (of all units) 4.5 Geomorphology 4.5.1 Geomorphologic classification (with geomorphologic unit map) 4.5.2.Weathering (depends on drainage pattern) 4.5.3. Drainage pattern 4.6 Structural Geology 4.7 Historical Geology	This chapter explain everything in your box (depend on the study area). A study box covers area at least 25 km^2, with ratio/scale 1: 25,000. This chapter covers **mapping part** of FYP. Several maps and figures need to be attached including: 4.4 Geological map and cross section (1) simple geological map in A4 size in the text and (2) detail geological map in A1 size as appendix. *Compulsory for petrography analyses (thin section) but also depending on study area. If study area is entirely located in an alluvium area, the grain size analysis/determination the type of soil should be conducted. - Stratigraphy lithostratigraphy and stratigraphic column

	4.8 Specification (Results and discussion)	4.5 Geomorphology Geomorphologic map -for no structure area 4.7 Historical Geology (finding in your study area, highlighting the process chronologically what happened there) *(*It is suggested that Chapter 4 and 5 are related to each other)*
Chapter 5 (Conclusion and suggestion)	5.1 Conclusion 5.2 Suggestion	
References	Follow guideline from FSB	

NOTE:

Lithostratigraphy
(Geological Map & Cross section)

- The geological map consists of geological features including lithologic unit distribution, geological structure, strike-dip of beds, foliation, fossils, dyke/sill, etc.
- Explanation of lithostratigraphical position of each unit (draw stratigraphical column)
- Briefly explanation of the unit rock composition

Unit explanation
Explain each unit, started from the oldest to the youngest

- Distribution horizontal (in the geological map) and vertical (from cross section) and thickness
- Detail rock composition of the unit
- Detail explanation of each rock in the unit
- Petrography of rock in the unit
- Geochemistry of rock in the unit (if any)
- Fossil content (if any)
- Age of the unit
- Deposition environment/magmatism/facies metamorphism
- Correlation of the units to regional stratigraphy

Example:
Show the geological map and cross section,
Example tour geological map has 4 lithostratigraphic units: schist unit, sandstone unit, granite, and alluvium).

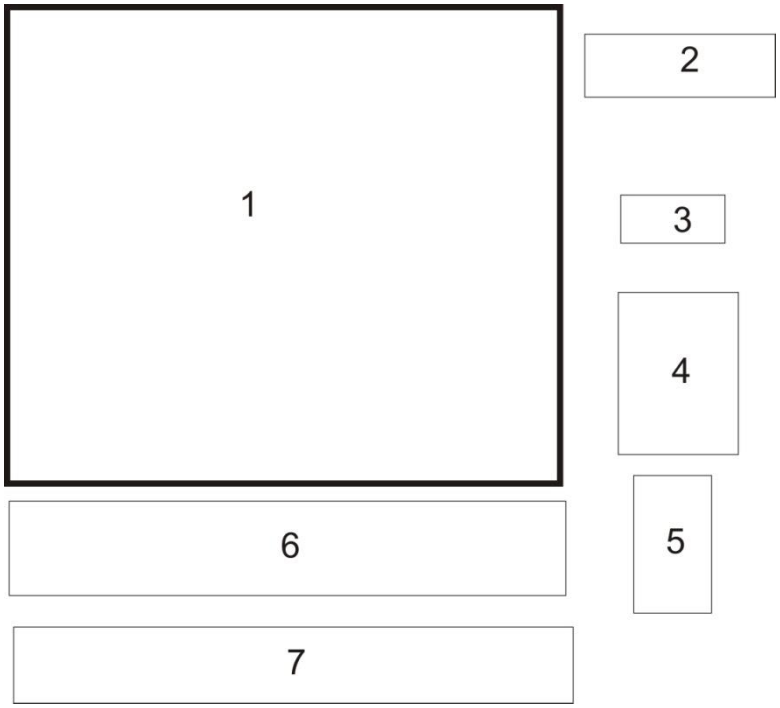
- Draw stratigraphy position of the 4 units in the geological map. Remember the oldest has to be in the lowest position.
- Explain one by one your lithostratigraphic unit. Started from the oldest unit to the youngest unit.

- In that example (a) the schist and sandstone units are intruded by granite, latest all of them are covered by alluvium.
- **Unit explanation:**
  - ***A. Schist unit:***
    - Composition of the schist unit: dominated by schist, with gneiss and metasediments
    - Explain schist, gneiss and metasediments, one by one started from the schist including field feature (colour, foliation, etc), hand specimen, petrographic feature (mineral composition, facies, etc.)
  - ***B. Sandstone unit:***
    - Composition of the sandstone unit: dominated by sandstone with mudstone, siltstone, and shale intercalations
    - Explain sandstone, mudstone, siltstone, and shale, one by one started from the sandstone, including field feature (colour, bedding, sedimentary structure, etc.), hand specimen, petrographic feature (texture, structure, and composition)
  - ***C. Granite***
    - Lithologic composition
    - Explain one by one of the rocks including field feature, hand specimen, petrography.
  - **D. Alluvium**
    - Same as above

GEOLOGICAL MAP

You have two geological map, one simple geological map in the text (A4 size) and the other detail geological map as appendix (A1 size). Here is the layout of that.

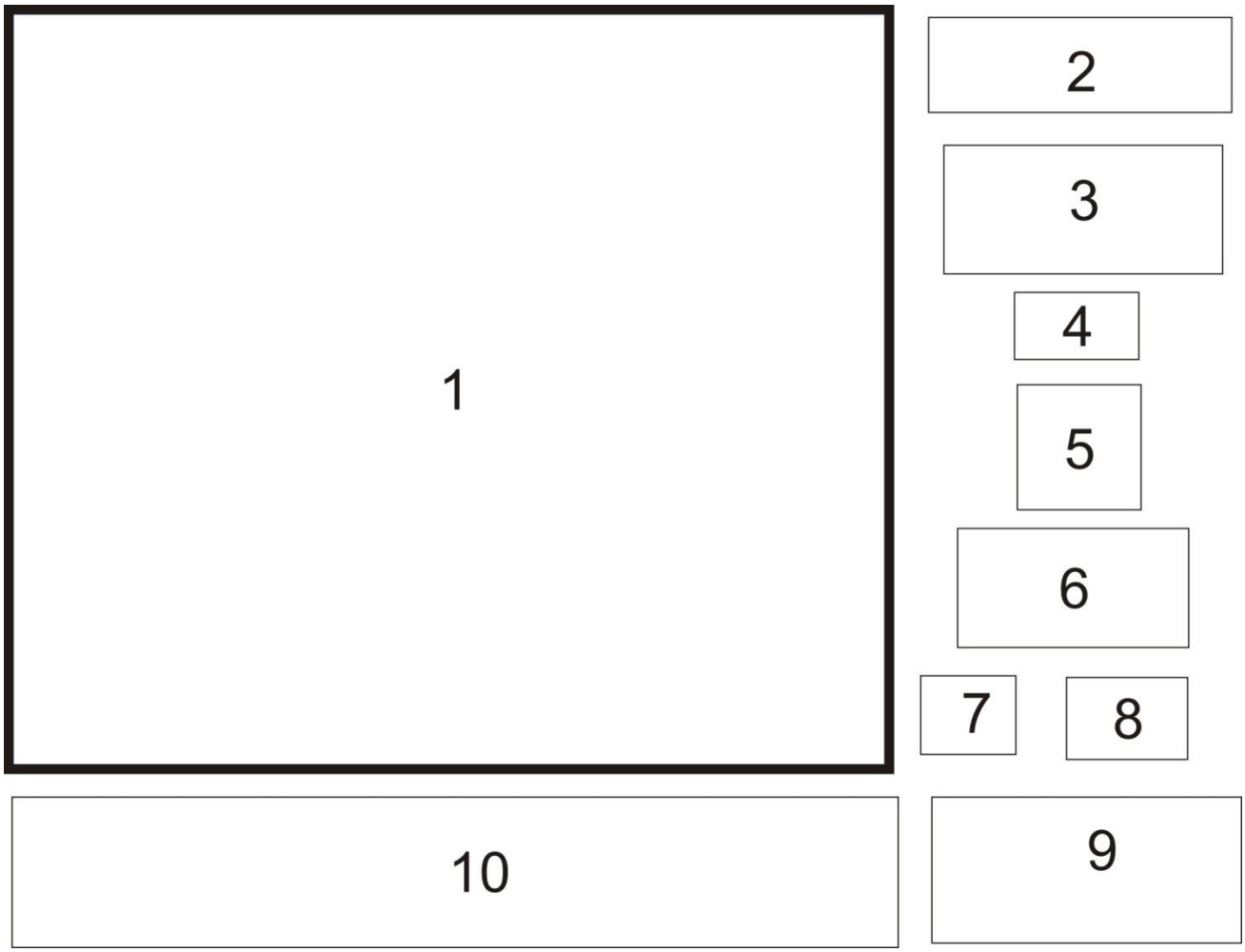
GEOLOGICAL MAP A4 SIZE IN THE TEXT



EXPLANATION:

1. Geological Map
2. Scale (bar scale)
3. Stratigraphy
4. Legend
5. Other explanations (if needed)
6. Cross section
7. Figure explanation: Figure 4.... Geological map of ..... area.

GEOLOGICAL MAP A1 SIZE AS APPENDIX



EXPLANATION:

1. Geological Map
2. University logo (fallowed by Faculty and Department)
3. Title of the geological map: GEOLOGICAL MAP OF .....

4. Student name and matrix number
5. Stratigraphy (showing stratigraphic position of all lithostratigraphic units)
6. Legend: description of all lithostratigraphic units, geological symbol (fault, bedding, foliation, mining, hot spring, etc.) and other explanation e.g. river, and lake.
7. True north and magnetic north
8. Box location (showing location of the box with surrounding cities)
9. Cross section.