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SS Geography Courses 2019-2020
Topic Description for 4 to 5-Day Courses

Topic Summary

Topics	Field Sites	Duration of topics
1. Perception Study of Natural Hazards in Cheung Chau	Cheung Chau	1-1.5
2. Exploring the Coast in Cheung Chau	Cheung Chau coastal area	1-1.5
3. Physical Environment of Cheung Chau	Little Great Wall to Nam Tum, Cheung Chau	1-1.5
4. Drifting Classroom	River Silver, Mui Wo	1
5. Urban Development in Cheung Chau (Previous name: Sustainable Development in Cheung Chau)	Cheung Chau downtown	1
6. Agricultural System in Mui Wo	Mui Wo	1-1.5
7. Woodland Ecosystem Discovery	Chi Ma Hang Road, Cheung Chau	1
8. Studies of Island Weather	Cheung Chau	1
9. Traffic and Pedestrian Flow Studies	Cheung Chau downtown	1
10. Managing River and Stream Quality *(Extended fieldwork)*	River Silver and Wang Tong River, Mui Wo	1.5-2
11. Sustainable City Study	Cheung Chau downtown	1.5-2
12. Exploring Urban Environment	Cheung Chau downtown	1.5-2

Choice of Topics

Teachers are suggested to choose **THREE** topics from the above.

Topic Description

1. Perception Study of Natural Hazards in Cheung Chau

- Knowledge:
  - to understand the major natural hazards in Hong Kong
  - to evaluate the perception of Hong Kong citizens on natural hazards
  - to analyze the responses of Hong Kong citizens on natural hazards
- Skills:
  - to test hypothesis
  - to use data collection methods such as questionnaire, interview and scoring
- Values:
  - to understand the role of human in complex man-land relationships

2. Exploring the Coast in Cheung Chau

- Knowledge:
  - to identify the characteristics of coast and the coastal landform features
  - to examine the factors and processes in shaping the coast
- Skills:
  - to exercise different sampling methods
  - to apply various data collection methods e.g. drawing field sketches and using field equipment for measurement
  - to draw beach profile for processing and presenting the morphological data

3. Physical Environment of Cheung Chau

- Knowledge:
  - to observe the geology of Cheung Chau
  - to understand the physical landscapes in relation to internal and external processes
- Skills:
  - to practice geological fieldwork techniques
- Values:
  - to appreciate and cherish the invaluable geological resources

4. Drifting Classroom

- Knowledge:
  - to identify the characteristics of river courses and the associated landforms
  - to relate the exogenetic fluvial processes with the characteristics of river courses and the associated landforms
  - to analyze how human factors (river management measures and land use) affect the characteristics of river courses
- Skills:
  - to collect field data by appropriate equipment
  - to draw cross-section
- Values:
  - to appreciate the beauty of the nature

5. Urban Development in Cheung Chau *(Previous name: Sustainable Development in Cheung Chau)*

- Knowledge:
  - to investigate the relationship between urban problems and distance of town center of study area
  - to investigate the sustainability of the study area
- Skills:
  - level of urban decay assessment
  - to draw choropleth maps
- Values:
  - to develop students' awareness of urban problems and sustainable development

6. Agricultural System in Mui Wo

- Knowledge:
  - to understand agricultural system (conventional farming and hydroponic)
  - to examine how urban development affects agricultural activities
- Skills:
  - to identify inputs, processes and outputs of different agricultural systems
  - to classify land use in various agricultural areas
  - to conduct laboratory works of water samples
  - to analysis of second-hand data
- Values:
  - to develop students' awareness of sustainable farming development

7 Woodland Ecosystem Discovery

- Knowledge:
  - to understand abiotic components and biotic components from woodland ecosystem
  - to understand the interrelationships between abiotic and biotic components
- Skills:
  - to collect data of vegetation and micro-climate
  - to conduct laboratory work of soil properties
  - to compare and analyze first hand data
- Values:
  - to develop a sense of tropical rainforest protection

8. Studies of Island Weather

- Knowledge:
  - to understand the weather elements and the factors contributing to the weather differences
  - to examine how the natural factors and human activities affect weather
- Skills:
  - to use different field equipment to measure weather elements
  - to compare the weather data of different field sites in Cheung Chau
  - to draw broken-line graph of different weather data
- Values:
  - to be sensitive to the changing environment around us

9. Traffic and Pedestrian Flow Studies

- Knowledge:
  - to understand the relationship between location, transport system and logistics
  - to understand the pros and cons of transport planning and management
- Skills:
  - to investigate the pros and cons of transport planning and management through conducting survey, data collection and comparison, etc. with the use of fieldwork equipment
- Values:
  - to show concerns about the transport problems and try to make suggestions towards sustainable transport development

10 Managing River and Stream Quality

- Knowledge:
  - to relate the fluvial processes with the characteristics of the river courses
  - to analyze how human factors affect the fluvial proves and water quality
- Skills:
  - to collect data by field equipment and conduct laboratory work
- Values:
  - to concern the effect of urban encroachment on rural environment

11 Sustainable City Study

- Knowledge:
  - to investigate the relationship between urban problems and distance of town center of study area
  - to solve urban problems in the view of sustainable development
- Skills:
  - level of urban decay assessment
  - to draw choropleth maps
  - to compare the effect of different sampling methods
- Values:
  - to develop students' awareness of urban problems and sustainable development

12 Exploring Urban Environment

- Knowledge:
  - to apply the concept of "distance decay" in the context of the "urban environmental quality"
  - to understand the concepts of Geographic Information System
- Skills:
  - to understand the statistical techniques and their application in geographical phenomenon
  - to familiarize with different map reading skills practically
  - to experience ArcGIS for spatial analysis
- Values:
  - to develop students' awareness of sustainable development

Course Programme

To be discussed with teachers according to the selection of topics.

Ferry Schedule

Teachers and students are recommended to take the following ferries:

- Central to Cheung Chau: Fast ferry: 08:00am OR 08:40am (35 minutes)
- Cheung Chau to Central Fast ferry: 04:45pm (35 minutes) OR
  Ordinary ferry: 05:15pm (55 minutes)

  (Boarding location: Cheung Chau Ferry Pier)

- Cheung Chau to Aberdeen 05:00pm (55 minutes)
  (*Boarding location: Cheung Chau Public Pier*)

Centre Campus Map

聖方濟校園 : 香港 長洲 芝麻坑路39號 St. Francis Campus : 39 Chi Ma Hang Rd, Cheung Chau, Hong Kong

聖保祿校園 : 香港 長洲 長洲地段1139號龍仔村 St. Paul Campus : C C Lot No. 1139, Lung Tsai Tsuen, Cheung Chau, Hong Kong