

OUTLINE OF TOPICS AND READINGS

Instructions: This handout serves as a guide for the topics and readings to be discussed in **Module 11: Climate Change and Environmental Awareness**. Use this as a reference when studying the assigned readings, videos, and discussions.

MODULE 11: CLIMATE CHANGE AND ENVIRONMENTAL AWARENESS

Focused on identifying the causes of climate change, assessing the various impacts of climate change (biological, meteorological, economic, geopolitical, etc.), and applying the concepts of Science, Technology, and Society to the issue of climate change

FLOW OF DISCUSSION AND READINGS

I. Understanding Climate Change

1. Differentiating climate change from global warming
2. Understanding the basic principles and processes involved in climate change
3. Identifying the causes and evidence of climate change

II. Major Areas of Concern Related to Climate Change

1. Understanding biological concerns such as:
 - Biodiversity and extinction;
 - Climate related organismal events;
 - Coastal ecosystems; and
 - Human health issues
2. Understanding meteorological concerns such as:
 - Rising sea levels;
 - Droughts and floods;
 - Heatwaves; and
 - Unexpected natural disasters (hurricanes)
3. Understanding economical concerns such as:
 - Infrastructure damage;
 - Food and cost; and
 - Population damage
4. Understanding geopolitical concerns such as:
 - Political changes for climate adaptation; and
 - Local and international repercussions of environmental movements

III. Environmental Awareness

1. Differentiating environmentalist, environmental scientist, and conservationist
2. Clarification regarding misconceptions about environmentalism and environmental “trends”
3. Active encouragement of small, medium, and large-scale contributions and innovations to environmental awareness