

Cliamte changes

(Marta Svetina Veder, Ph.D., Assist. Prof.)

Subjects code: CC

Year of Study: 1. or 2.

Lectures: 20

Exercises: 30

ECTS: 6

Contents subjects

Environment and climate changes (regional effects, international and global aspects)

Introduction

- Energy balance of the planet Earth
- Climate system and its changes
- Potential air energy available
- Transfer and transformation of different energy types in the air
- Balance equations for internal, potential and kinetic energy

Energetics of global air circulation

- Thermodynamics of the atmosphere
- The planet functioning as a heating machine

Global climate changes

- Greenhouse effect
- Sulphur aerosols
- Ozone depletion

Global consequences of constant temperature rise

Consequences of climate changes in Slovenia and solutions