## Week-6

## \*\* Task 1\*\*

Provide a summary of the main concepts that went through about solar radiation (formulas are not needed)

Solar radiation is an important source of energy which is transmitted by radiative thermal transfer from the space to the surface of earth. Solar radiation is distributed by 2 phenomenon called dispersion and absorption.

Through dispersion sun rays diffused in different directions and through absorption sunrays absorbed by existing elements and particles in the air such as  $H_2O$ ,  $CO_2$ , and ozone.

The amount of energy and quality of solar radiation, depends on:

- the Sun position in the sky (altitude a and azimuth ), which changes daily and seasonally;
- the weather condition, both continental and microclimatic (atmosphere clearness);
- the site altitude over the see level;
- sunshine hours (day length).

## \*\* Task 2\*\*

create a pdf file with screenshots of all of the steps we went through in the second lesson on openStudio and explain briefly the reason behind the use of each step (in your own words!)



























