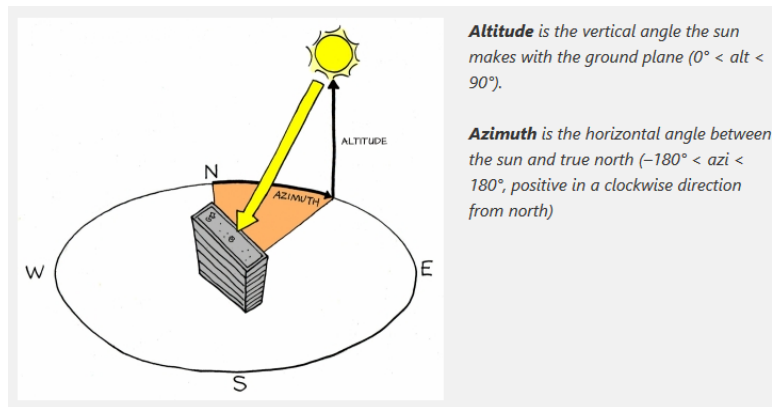


Arch 357 architectural design with climate

Assignment - 1

Understanding sun movement patterns can help in determining the building location and configuration. For any given spot on the site, one can draw the existing elements on the sun graph. Just as the sun path was plotted by knowing the azimuth and altitude of the sun, existing site elements can also be drawn on the graph from any one spot on the site. The diagram shows which locations on the site receive sunshine and shade. These same diagrams can be used to determine shadow patterns to be drawn in plan.



Here by this assignment, it is aimed to practice how to use sun path diagrams. The link below will help you to create a sun path diagram which belongs to one of the site that you choose. The place will be anywhere in the world; only one requirement is needed: the longitude and latitude of that place.

<http://solardat.uoregon.edu/PolarSunChartProgram.html>

http://www.sunearthtools.com/dp/tools/pos_sun.php

Just after you have the solar path diagram, please follow the instructions given at the link below to find out azimuth and altitude of that place in 21st of December at 14:00; and 15th of June at 12:00.

<http://sustainabilityworkshop.autodesk.com/buildings/reading-sun-path-diagrams>

The results will be reported in the form given below and send to cankayamim@gmail.com. The file will be either Word document (.doc) or a .pdf. Name of the file should be your name and surname; example: veli_ iyicizer.doc / veli_ iyicizer.pdf

ÇANKAYA UNIVERSITY
FACULTY OF ARCHITECTURE
DEPARTMENT OF ARCHITECTURE
ARCH 357 ARCHITECTURAL DESIGN WITH CLIMATE
Assignment - 1

The Location			
Name of the Location*		
Latitude		
Longitude		
<i>*Please attach created sun path diagram.</i>			
Collected information			
21st of December at 14:00		15th of June at 12:00	
Azimuth	Altitude	Azimuth	Altitude
.....