



TOOL

DEYCALION Project



Developed by : EarthLab, University of Ioannina, Greece

- Website* :
- <http://deucalion.earthlab.uoi.gr/objects.php> (access to the educational material created for every natural phenomenon)
 - <http://deukalion.sch.gr/wp/material/Program/> (access to the educational programme created for floods)

Description

The DEYCALION project aims to create material and tools that will educate students on: the causes of natural disasters, their impact on both the natural and man-made environment, and on relevant preventive measures. The material provided could be used in printed form, but mainly in digital form, with the aim of integrating and exploiting ICT in the educational system.

Duration

Resources needed

Age

Depending on
the use

Computer with internet access. An application called Adobe Flash Player (version 10.0.0 or greater) should be installed for the educators to download the PDF files. The floods educational programme is compatible with every device.

Suitable for all
ages

Relevance to CRISEPAC Objectives

It aims to develop students' knowledge on how to address a series of natural phenomena, such as: earthquakes, volcanoes, tsunami, landslide, rain, flood, mudslide, snow, hail, storm, fog, heatwave, frost, wind, human distress index, fires, air pollution, solar irradiance, ozone.

Management

The tool provides educators with a plethora of educational materials, from which they can choose the part they want to explore. They may also choose which topic they want their lesson plan to be focused on. For each category chosen, the educational material offers specific lesson plans in PDF files, which may be downloaded and exploited by the educators.



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Expected outcomes

This tool provides access to educational resources and tools that aim to enhance knowledge on natural disaster and earthquake response. It mainly contains information regarding the ability to address the following natural phenomena: earthquakes, volcanoes, tsunami, landslide, rain, flood, mudslide, snow, hail, storm, fog, heatwave, frost, wind, human distress index, fires, air pollution, solar irradiance, ozone.

Others

Weaknesses

- Narrow coverage: Due to uneven implementation or resource availability, it might not reach all regions or schools.
- Dependency on digital tools: Digital resources might not work as well in places with poor internet or technology access.
- Complexity: For younger students who lack former experience, the material may be overly theoretical or difficult to manage.

Strengths

The categorisation of the material makes it easy for the educators to adapt the content to their students' needs and the topic they want to address during their lesson.

Climate change

The DEUCALION project is interlinked to climate change by educating students on natural disasters, including those exacerbated by the impact of climate change. It focuses on raising awareness about disaster prevention, helping children comprehend and respond timely to extreme weather events. By the integration of digital tools in education, the project focuses on preparedness for climate-related risks, fostering resilience and promoting active strategies against climate change related natural disasters.

Possible adaptations

The design of the flood educational programme is different from the design for the rest of the material. It seems that more emphasis was given on floods, as there is a specific educational programme regarding this topic. For the rest of the topics, educators may download the PDF files provided in Deykalion project's official website on the educational material page.



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Methodologies

The tool inventory created in the context of DEYKALION project consists a rich resource filled with educational materials, revolving around matters of climate change and disasters. For example, a subsection of it focuses on floods, consisting the following modules: causes of floods, human activities and interventions, flood management, key features of river systems, flooding as a natural disaster, floods and legends, floods and art, prevention and protection and flood maps. Each educational programme consists of a theoretical background, the educational programme, educational activities, glossary, further activities and reading. It is also divided into age groups and according to the lesson plan duration. This detailed collection of information and tools, can be easily accessed and used by educational professionals, which are willing to exploit the material provided.

Additional Resources: educators may access additional resources in the relevant section of the educational material (<http://deukalion.sch.gr/wp/material/bibliography/>)



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