The Vajont slide: origins, prediction and measures

The Vajont Dam, one of the tallest in the world, was completed in 1959 in North Italy. In October 1963, during initial filling, a massive landslide caused a huge tsunami in the lake in which 50 million cubic metres of water overtopped the dam in a wave 250 metres (820 ft) high, leading to the complete destruction of several villages and towns, and 1,910 deaths. It has been extensively argued, that the disaster could have been avoided with the correct site investigation, consideration of the geology and monitoring. Explain the origins of the failure, including the mechanism and the effect of the initial filling. Make a list of and describe the actions that should have been taken in this direction. List and justify the warning signs that have been ignored. Compare the planning and operation to modern standards and suggest a line of action that would have prevented the disaster.

Målgrupp av studenter / Target group of students
	t ex Samhällsbyggnadsteknik, Maskinteknik, Kemiteknik med fysik… flera program hittar du här

e.g. Civil Engineering, Mechanical Engineering, Chemical Eng. with Eng. Physics, … more programs here

Civil Engineering

Gruppstorlek / Group size
minimum 3 studenter/students, maximum 6 studenter/students

3-6

Litteraturförslag / Litterature proposal
J.A. Hudson, J.P. Harrisson: Engineering Rock Mechanics, an introduction to the principles

Speciella förkunskapskrav / Special prerequisists
t ex profil (se mer i bilaga), kurs, verktyg: CAD, BIM, mjukvara / e.g. profile (see appendix), course, tools: CAD, BIM, software

none

Handledare / Supervisor
Eleni Gerolymatou

Examinator / Examiner
Ej samma person som handledare / Cannot be the same person as supervisor
Minna Karstunnen

Kan projektet dubbleras? / Can the project be doubled? JA / NEJ
dvs. kan det vara flera grupper som jobbar med samma tema / e.g. can several groups work on the same subject
Ja

Studenter med förtur till projektet / Students with priority to the project
Gäller endast om studenter har föreslagit projektet / Applies only if the project has been suggested by the students
None