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BARCELONATECH

Escola Superior d'Enginyeries Industrial,
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Implementation of bottom topography for Shallow Water simulations

Document:

Budget

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BACHELOR FINAL THESIS

Chapter 1

Budget

This document contains the budget for the developed dissertation. The project budget has been broken down into the production costs.

- For the hours of work, the total number established for a final bachelor dissertation and the minimum price per hour this institution proposes for internships have been used. The expenses associated to formal contract establishments are not accounted for as the budget is an approximation.
- The price of electricity and others is also approximated. It is estimated that 9'5 of each 10 hours of the work hours have been carried out using a computer (writing code, virtual meetings, researching information or typing. Laptops consume between 20 and 60 kW with a price of approximately 0.0031 €/h.
- It is estimated a contingency percentage of 10 to the estimated total, which is added to the total.
- Also the cost of the license for the programs used to make the calculations (Matlab) is taken into account with an estimated value of 800 €

Item	Description	Unitary cost	Total units	Total
1	Hours of work	8€/h	600 h	4800 €
2	Electricity	0.0045 €/kWh	50 kW · 570 h	128.25 €
3	Software licences	800 €	1	800
4	Contingency			572.83 €
Total				6301.08 €

Table 1.1: Total cost break down