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ELECTROMAGNÈTICA PER A PROTECCIÓ

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**Disseny i mesura de teixits
apantallants/antiradiació
electromagnètica per a protecció - Budget**

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Chapter 1

Budget

The estimated budget for the realization of the project is mainly related to the author's work-hours, hardware and software costs used during the project.

Software used for simulations has been Matlab R2018a Full Version, CST Studio Suite and Microsoft Office 365. Considerations taken during the budget estimation:

- Time: the time spent on this project and dissertation has been six months, investing a total of 340 hours.
- Cost per man-hour (CMR): 12€/h.
- Currency: Euro.
- Taxes are not included.

Table 1.1 shows the manpower costs, Table 1.2 shows the cost of the software and hardware used during the project, Table 1.3 shows the cost of the equipment and Table 1.4 the cost of the materials used to build the samples.

Finally, in Table 1.5 a summary of the total cost is presented.

Item	Number of hours	CMR (€/h)	Cost (€)
Student hours	340.00	12.00	4080.00
External Assessor hours	4.00	25.00	100.00
Total			4180.00

Table 1.1: Manpower costs.

Item	Unit Cost	Amortization Period	Period Applicable	Cost (€)
Matlab R2018a	397.24 €/year		1 year	397.24
CST Studio Suite	2000.00 €/year		1 year	2000.00
Microsoft Office 365	8.80 €/month		6 months	52.80
Computer MSI GE72	1599.00 €	5 years	6 months	159.90
Total				2609.94

Table 1.2: Hardware and Software costs.

Item	Unit Cost	Amortization Period	Period Applicable	Cost (€)
Singer Futura XL-550	1399.99 €	5 years	2 months	46.67
N91916A FieldFox MA	14874.70 €	10 years	1 month	123.96
Antenna OmniLOG 70600	249.95 €	10 years	1 month	2.08
Total				172.71

Table 1.3: Equipment costs.

Item	Unit Cost	Units	Cost (€)
MU-Copper Tape	18.88 €/30m	5.00 m	3.15
Cotton Fabric	9.00 €/m ²	0.50 m ²	4.50
Silver Thread	1.78 €/10 metre	100 metres	17.80
Total			25.45

Table 1.4: Materials costs.

Item	Cost(€)
Hardware and Software	2609.94
Manpower	4180.00
Material	25.45
Equipment	172.71
Total	6988.10

Table 1.5: Total cost of the project.