

WORKING PLAN

	Objectives		Activities
YEAR I	1	The establishment of the trickling biofilter mathematical model	A1.1 The modelling of the trickling biofilter using the equations of biofilm constitution
			A1.2 The identification of an ASM type model structure appropriate for the trickling biofilter
			A1.3 The biofilter modelling using the ASM type model stated at the activity A1.2
			A1.4 The comparison of the obtained results from both models of the biofilter, deduced at the activities A1.1 and A 1.3
			A1.5 The dissemination of the obtained results and the performing of research-documentation stages
	2	The establishment of the mathematical model for the fish culture tanks	A2.1 The identification of the mathematical model structure for the fish culture tanks
			A2.2 The modelling of the fish culture tanks
			A2.3 The purchasing of equipments and materials for the project development
			A2.4 Project management activities
YEAR II	1	The establishment of the global mathematical model for the aquaculture plant	A3.1 The modelling of all aquaculture plant elements
			A3.2 The aggregation of the models presented at the activity A3.1 for obtaining the global model of the aquaculture plant
			A3.3 The accomplishment of a software for simulate the aquaculture installation using the model obtained at the activity A3.2

			A3.4 The comparison of the simulation results with the experimental data acquired from the aquaculture plant of UDJG
			A3.5 The dissemination of the obtained resulted and the performing of research-documentation stages
	2	The establishment of control strategies for the aquaculture plant	A4.1 The knowledge acquisition from the analytical model of the aquaculture plant
			A4.2 The knowledge acquisition from the experiments made on the aquaculture plant of UDJG
			A4.3 The elaboration of a hierarchical intelligent control system for the aquaculture plant
			A4.4 The purchasing of the required materials for the project development
			A4.5 Project management activities