

	Implementation schedule	Participation	Partner University	Lecturer
DAY 1 05/05/2025 10.00-13.00 CET	Mooring systems of fish farms	Online	Agricultural University of Athens	Emmanouil Malandrakis
Description	Mooring systems for fish farms. The mooring systems of fish farms will be analyzed, as well as the appropriate infrastructure for sea farm installations.			
DAY 2 06/05/2025 10.00-13.00 CET	Microalgae production in bioreactors	Online	University of Zadar	Tomislav Šarić Petar Zuanović
Description	<p>Aquaculture feeds are one of fish culture's main inputs and cost factors. Concerns regarding the economic and environmental sustainability of feeds are mainly based on ingredients of marine feed-grade fisheries origin and have steered significant EU support towards exploring and utilizing alternative nutrient sources. In aquaculture, microalgae are primarily associated with nutrition for fish larval rearing or as food additives to essential nutrients as a provider of DHA and EPA. Microalgae cultivation in photobioreactors has emerged as a promising and sustainable approach to address various environmental and energy challenges, offering many benefits across diverse applications. In this lecture, critical factors in microalgae cultivation, such as preparation of nutrients for algae cultivation (vitamins, macronutrients and micronutrients), photobioreactor design, light-dark (L-D) cycles, CO₂ concentrations, mass transfer, hydrodynamics behaviour, and pH, will be reviewed. Also, the production of algae in large-scale industrial photobioreactors will be demonstrated as well as the control of the population of cultivated algae.</p>			

DAY 3 07/05/2025 10.00-13.00 CET	Aquafeed production	Online	Agricultural University of Athens	Arkadios Dimitroglou
Description	Aquafeed production. The technology available, necessary parameters and nutritional demands of species that should be considered.			
DAY 4 08/05/2025 10.00-13.00 CET	Socioeconomics in fisheries and aquaculture	Online	Agricultural University of Athens	Angelos Lontakis
Description	Social and economic aspects of fisheries and aquaculture in Greece will be analysed.			
DAY 5 09/05/2025 10.00-13.00 CET	Research and Development of sustainable aquaculture practices	Online	University of Rostock	Harry Palm
	Sustainable aquaculture practices require a better use of the natural resources as well as the minimal production of effluent waters and wastes. One possibility is the combination of fish and plant production, or aquaponics, where the plants utilize the water and nutrients from aquaculture and the clarified water returns to the fish. However, this process is complex and requires thorough research and a deeper understanding of the underlying processes. This lecture demonstrates the strategy behind the research activities in the FishGlassHouse at Rostock University for the further development of aquaponics and its integration into the circular economy.			

**On-site visit at the Laboratory of Applied Hydrobiology at the Agricultural University of Athens on 19/05/2025. For further information please contact Dr. Evanthia Chatzoglou (echatzoglou@aua.gr)*