A.S. D GOVT.DEGREE COLLEGE FOR WOMEN (A), KAKINADA

DEPARTMENT OF ZOOLOGY & AQUACULTURE TECHNOLOGY

2022-2023

AQUACULTUR TECHNOLOGY Courses offered

Semester	Course Title	Course Type (T/P/L)
I	Basic Principles of Aquaculture	T
	Basic Principles of Aquaculture -I Lab	L
II	Biology of Fin Fish & Shell Fish	T
	Biology of Fin Fish & Shell Fish - II Lab	L
III	Fish Nutrition & Feed Technology	T
	Fish Nutrition & Feed Technology - III Lab	L
IV	Freshwater & Brackish water Aquaculture	T
	Freshwater & Brackish water Aquaculture Practical - IV	L
	Fish Health Management & Fisheries Economics	T
	Fish Health Management & Fisheries Economics Practical – V	L
V	Soil and Water Quality Management	T
	Soil and Water Quality Management Lab	L
	Ornamental Fish Culture	T
	Ornamental Fish Culture Lab	L

COURSE OUTCOMES (COs)

SEMESTER-I

BASIC PRINCIPLES OF AQUACULTURE

CO1: Understand and analyze the different aquaculture systems

CO2: Understand the pond eco system and nutrient cycles.

CO3: Acquire the knowledge on functional classification of ponds.

CO4: Understand and analyze lay out and construction of fish pond.

CO5: Acquire the knowledge on need of fertilizers and manures for pond and Physico-chemical conditions of pond

SEMESTER-II

BIOLOGY OF FIN FISH & SHELLFISH

CO1: Understand the general characters, classification and commercial importance of cultivable fin and shell fish.

CO2: Acquire the knowledge on feeding habits and factors effecting growth in fish

CO3: Understand the breeding in fin fish and shell fish.

CO4: Acquire the knowledge on parental care in fish and embryonic and larval development of fin fish and shell fish.

CO5: Understand the different endocrine hormones

SEMESTER-III

FISH NUTRITION & FEED TECHNOLOGY

CO1: Students can understand the nutritional requirements of cultivable fish.

CO2: Create the knowledge in feed preparation and feeding habits.

CO3: Students are able to evaluate fish feed manufacture and storage.

CO4: Students analyze the estimation of protein content in aquaculture feeds

SEMESTER-IV_ PAPER-IV

FRESH WATER & BRACKISH WATER AQUACULTURE

CO1: Students can understand the present status of freshwater aquaculture and their role in world economy and food production.

CO2: Create knowledge in life history stages of freshwater fish and prawn.

CO3: Students gain analytical and technical knowledge of prawn hatchery technology and brackish water species.

CO4: They evaluate the carp and prawn culture and composite fish culture systems.

SEMESTER-IV PAPER-V

FISH HEALTH MANGEMENT & FISHERIES ECONOMICS

CO1: To understand the diseases of fin fish

CO2 To understand the diseases of shell fish.

CO3 To understand the fish health management strategies.

CO4 To understand the different fisheries economic policies.

CO5: To understand the various schemes for the welfare of fishermen community

SEMESTER-V

SOIL AND WATER QUALITY MANAGEMENT (Paper – 6A)

CO1: Can understand the essentialities of soil parameters for Aquaculture practices

CO2: Can understand and apply the knowledge of water parameters in pond management.

CO3: Can apply the technical skills of preparation of pond.

CO4: Can acquire the knowledge of recent trends in aquaculture practices.

CO5: Can analyse and apply the technical skills of testing of soil and water in pong management

SEMESTER-V

ORNAMENTAL FISH CULTURE: (Paper-7A)

CO1: Can acquire the knowledge of basics of ornamental fish culture.

CO2: Can identify the different varieties of ornamental fishes used in aquarium.

CO3: Can acquire the skills of aquarium management.

CO4: Can get the knowledge of breeding of ornamental fishes.

CO5: Can get the skills of aquarium fish and plant production commercially.