

SIR C R REDDY COLLEGE FOR WOMEN, ELURU

(Affiliated To Adikavi Nannaya University, Rajamahendravaram)

2020-2021 AB COURSE OUTCOMES

DEPARTMENT OF FISHERIES

SIR C R REDDY COLLEGE

FOR WOMEN ELURU

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B.Sc. Fisheries

Paper – I semester I : Biology of Fin Fish

COURSE OUTCOMES:

After the completion of the course, the student should be able to,

CO 1	Students will able to learn about the concepts of fin fishes. This course helpful to our student to identify the fishes and study their characteristics. These basic ideas are directly related to anatomy and physiology of fin fishes which is very much essential to the students.
CO 2	This course helpful to our student to know about food feeding and growth of fin fishes.
CO 3	The focused area of this course is about reproductive biology of fishes this topic includes breeding techniques, sexual maturity, estimation of fecundity and length weight relationships.
CO 4	The foremost area of this course is about embryonic and larval development of fishes.
CO 5	Student get idea about locomotion and migration of fishes.

PRACTICAL

- Students can able to identify the commercially important fishes
- Students can able to identify the embryonic stages
- Students know the induced breeding technique

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I B.sc (II Semester)

Semester-II Paper – II : **Biology of Shell Fish**

Course Outcomes

CO 1	To understand the detail of classification of molluscs and crustaceans, commercially important shell fishes. To understand the different types of shell fishes and their internal organs of respiratory, excretory, nervous, and sensory organs.
CO 2	Students will be understand the shell fish nutrition, structure, composition, their properties, digestion and metabolism. TO get detailed knowledge on live feeds including the natural food of plankton.
CO 3	Fundamentals of reproductive biology address the basic biology mechanisms that include male and female reproductive systems, maturation and breeding.
CO 4	Student will be able to acquire knowledge of embryonic development of decapods and clear understanding of the environmental factors affecting to cultivable shell fish.
CO 5	Understand on various aspects of decapods and metamorphosis in crustaceans.

PRACTICAL

- Students can able to identify the commercially important Shell fishes
- Students can able to identify the larval stages
- Students know the induced maturation in shrimps
- Students able to identify the molluscan stages

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II B.sc (III Semester)
Subject: Fisheries
Paper-III : Capture fisheries – 1

Course Outcomes :

CO 1	Students will gain background knowledge in the fish catch statistics.
CO 2	Student will learn the knowledge on the distribution and biology of important fishes and other aquatic animals in India.
CO 3	Students learn knowledge on the riverine fisheries of Indian resources and their fishery.
CO 4	Students will learn the importance of east coast and west coast riverine systems, problems and their management.
CO 5	The focus area of course is lacustrine fishery. students learn about different reservoirs river systems in India.

PRACTICAL

- Students can able to identify the commercially important fishes based on colour pigmentation
- Students can able to identify the embryonic stages of IMC'S Indian major carps
- Students know the models of fishing crafts and gears

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PAPER IVA

CAPTURE FISHERY -II

SEMESTER - IV

Course Outcomes:

CO 1	Students will gain background knowledge in the estuaries fishery.
CO 2	Student will learn the knowledge on major fisheries of India. students will also become aware of the environmental variables which are affecting the production and energy flow through the food chain.
CO 3	To gain knowledge about basic geometric concepts and important terminologies of fishing vessels.
CO 4	Learn the importance of gears and various rules in construction of fishing gears.
CO 5	To gain knowledge about principals of conservation and management. To understand the concept of maximum sustainable yield and maximum economic yield, biological symptoms of under fishing, over fishing.

PRACTICAL

- Students can able to identify the marine and estuarine fisheries commercially important fishes based on colour pigmentation
- Students can able to identify the marine and estuarine fisheries from the point of ecology
- Students know the common types of marine and estuarine fishing crafts and gears

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III B.sc (4th Semester)
Paper- IVB FIN FISH CULTURE

Course Outcomes:

CO 1	Knowledge on the basis of aquaculture, cultivable fishes and different aquaculture systems will be learnt by the student.
CO 2	Student can able to gain the knowledge on classification of ponds based upon water resources and functions.
CO 3	Knowledge on the important factors in design and construction of ideal fish pond.
CO 4	To develop students' practical skills in management of ponds.
CO 5	To develop basic knowledge on the designing, construction and maintenance hatchery design.

PRACTICAL

- Students can able to examine the dissolved oxygen
- Students can able to examine carbonates and bicarbonates
- Students know the induced breeding technique in carps

SIR C R REDDY COLLEGE, ELURU
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(V Semester)
PAPER VI B: AQUATIC POLLUTION AND
COASTAL ZONE MANAGEMENT

Course Outcomes:

CO 1	To understand the introduction of different types of pollution
CO 2	To clear knowledge on water pollution pesticide pollution thermal pollution and radioactive pollution.
CO 3	To understand the monitoring and control of pollution and EIA
CO 4	To understand the coastal zone management And GIS and its applications
CO 5	To understand the methods of CZM ,CRZ and ICZM

PRACTICAL

- Students can able know the structure of aerators and filters
- Students can able to identify the aquarium plants
- Students can able to know the layers and bearers
- Students can easily identify the aquarium fishes

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(V Semester)
PAPER VIIB: ORNAMENTAL FISHERY

Course Outcomes:

CO 1	To understand the introduction of different types of ornamental fishes and the present status of an India and world. detailed on water quality and their feeds. To knowing the introduction to aquarium , ornamental and aquarium accessories.
CO 2	To clear knowledge on fresh water ornamental fishes, culture and breeding.
CO 3	To understand the marine ornamental fishes , resources of India and their breeding.
CO 4	To understand the setting up of aquarium and aquarium management practices, common diseases and their treatment.
CO 5	To understand the commercial production of ornamental fishes, aquarium plants and retail marketing, exporting.

PRACTICAL

- Students can able know the structure of aerators and filters
- Students can able to identify the aquarium plants
- Students can able to know the layers and bearers
- Students can easily identify the aquarium fishes