Dr. V.S KRISHNA GOVT. DEGREE & PG COLLEGE (A), VISAKHAPATNAM

ZOOLOGY SYLLABUS (W.E.F. 2016 – 17)

SEMESTER - VI

CORE -VI

Hrs/week: 3/2

COURSE-VI : APPLIED (2) ELECTIVE - (II)- AQUACULTURE MAX MARKS : 100 HOU

HOURS: 30

Module - I AQUACULTURE TYPES

6 Hrs

- 1. Introduction to Aquaculture systems Extensive, semi-intensive, intensive, Open, closed, pen, cage culture types. (3hrs)
- 2. Monoculture, polyculture, Composite fish culture. (2hrs)
- 3. Integrated fish culture. (1hrs)

Module - II FRESHWATER AQUACULTURE

4 Hrs

- 1. Indian Major Carp culture. (2hrs)
- 2. Fresh water prawn culture. (2hrs)

Module - III FISH SEED PRODUCTION

10 Hrs

- 1. Induced breeding in major carps. (2hrs)
- 2. Bund breeding. (1hr)
- 3. Fish seed transport. (1hr)
- 4. Hatchery Management. (2hrs)
- 5. Fish pond management nursery, rearing, production ponds. (4hrs)

Module - IV SHRIMP CULTURE AND DISEASES

4 Hrs

- 1. Penaeus monodon culture. (2hrs)
- 2. Viral diseases of prawns. (2hrs)

Module - V FINFISH PATHOLOGY AND POST HARVEST TECHNOLOGY

6 Hrs

- 1. Bacterial diseases bacterial gill disease, vibriosis, gill rot disease
- 2. Viral diseases Infectious Pancreatic Necrosis, Viral Haemorrhagic Septicemia, Carp pox.
- 3. Fungal diseases Saprolegniasis, Branchiomycosis.
- 4. Parasitic diseases Whirling disease, gyrodactylosis, Argulosis, Lerniasis.
- 5. Preservation of fish through freezing, salting, Drying, smoking and Canning.

Reference Books:

- 1. A Text Book of Fishery Science and Indian Fisheries by Dr C B L Srivastava.
- 2. Aquaculture principles and practices: TVR Pillay.

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ZOOLOGY SYLLABUS (W.E.F. 2016 – 17)

SEMESTER - VI

CORE -VI

Hrs/Week: 3/2

COURSE-VI : APPLIED (2) ELECTIVE (I) – FISHERIES SCIENCE.

MAX MARKS:100

HOURS: 30

Module - I CAPTURE FISHERIES

9 Hrs

- 1. Capture fisheries Introduction to finfish fisheries and shellfish fisheries (2hrs)
- 2. Fishery resources Freshwater, Brackish water and marine. (5hrs)
- 3. Fishing craft and gear. (2hrs)

Module - II CULTURE FISHERIES

10 Hrs

- Aquaculture systems Extensive, semi-intensive, intensive, Open, closed, pen, cage culture types. (3hrs)
- 2. Monoculture, polyculture, composite and integrated fish culture. (3hrs)
- 3. Pond management nursery, rearing and production ponds. (4hrs)

Module - III PATHOLOGY

7 Hrs

- 1. Viral diseases of prawns. (3hrs)
- 2. Fish diseases (bacterial, viral, fungal, protozoan and crustacean only). (4hrs)

Module - IV POST HARVEST TECHNOLOGY

4 Hrs

- 1. Fish preservation- Freeezing, drying, canning, salting, and smoking. (2hrs)
- 2. Fish byproducts. (2hrs)

Reference Books:

- 1. A Text Book of Fishery Science and Indian Fisheries by Dr C B L Srivastava.
- 2. Aquaculture principles and practices: TVR Pillay.

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SEMESTER VI (W.E.F 2016 - 17)

:75

COURSE VI : APPLIED (2) ELECTIVE (II) - AQUACULTURE BLUE PRINT FOR QUESTION PAPER SETTER TIME: 3HRS

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	MAX MARKS				
MODULE NO. & NAME	VERY SHORT ANSWER QUESTIONS 2 MARKS	SHORT ANSWER QUESTIONS 5 MARKS	ESSAY QUESTIONS 10 MARKS	MARKS ALLOTTED TO THE MODULE	
MODULE I (AQUACULTURE TYPES)	02	01	01	19	
MODULE II (FRESHWATER AQUACULTURE)	01	01	02	27	
MODULE III (FISH SEED PRODUCTION)	02	02	02	34	
MODULE IV (SHRIMP CULTURE & DISEASES)	01	01	01	17	
MODULE V (POST HARVEST TECHNOLOGY & FISH DISEASES)	02	03	02	39	
Total no. of Questions	08	08	08		
TOTAL 1	136				

- NOTE: 1. The Question paper setters are requested to kindly adhere to the format given in the above table.
 - 2. The Question paper setters are also requested to set the questions in the following
 - a. 80% of questions memory and understanding based.
 - b. 20% of questions Creativity, application and skill based.

(Dr. T. S.D. RE Leet. -in-chr

Dr. V.S KRISHNA GOVT. DEGREE & PG COLLEGE (A), VISAKHAPATNAM III B.Sc. ZOOLOGY SEMESTER VI (W.E.F 2016- 17)

CORE -VI

COURSE VI: APPLIED (2) ELECTIVE (I) - FISHERIES SCIENCE.

BLUE PRINT FOR QUESTION PAPER SETTER

TIME: 3HRS

MAX MARKS:75

MODULE NO. & NAME	VERY SHORT ANSWER QUESTIONS 2 MARKS	SHORT ANSWER QUESTIONS 5 MARKS	ESSAY QUESTIONS 10 MARKS	MARKS ALLOTTED TO THE MODULE
MODULE I (CAPTURE FISHERIES)	02	02	02	34
MODULE II (CULTURE FISHERIES)	02	02	02	34
MODULE III (PATHOLOGY)	02	02	02	34
MODULE IV(POST HARVEST TECHNOLOGY)	02	02	02	34
Total no. of Questions	08	08	08	
TOTAL	136			

- NOTE: 1. The Question paper setters are requested to kindly adhere to the format given in the above table.
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