



# AQUACULTURE AND FISHERIES



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## WELCOME TO THE COURSE ZOO-IV-E.6 AQUACULTURE & FISHERIES

Your progress

[Announcements](#)

ZOO-IV.E-6 FISHERIES AND AQUACULTURE



VERSION;01



This course will help you understand the role of aquaculture in rural development and in solving problem related to fisheries at the completion of the course. You will be prepared with various techniques of culturing fish also will help you in becoming an entrepreneur in this sector

## TOPIC 1

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## COURSE HOME

[faculty\\_details](#)



## COURSE DETAILS

[COURSE OBJECTIVES](#)



[COURSE OUTCOMES](#)



[COURSE SYLLABUS](#)



[COURSE POLICIES](#)




[course workplan module 1](#)



[course schedule -module 2 & 3](#)













## COURSE EVALUATION











 <a href="#">Aquaculture-PBL-CA-02</a>	<input type="checkbox"/>
<b>Hidden from students</b>	
 <a href="#">Aquaculture Gobbet-CA-2</a>	<input type="checkbox"/>
<b>Hidden from students</b>	
 <a href="#">Aquaculture-Worksheet</a>	<input type="checkbox"/>
<b>Hidden from students</b>	
 <a href="#">SEMESTER END EXAMINATION: QUESTION PAPER</a>	<input type="checkbox"/>
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 <a href="#">RUBRICS OF EVALUATION</a>	<input type="checkbox"/>

## QUADRANT 1- E- VIDEOS


### MODULE 1

 <a href="#">lect 1 Introductory lecture</a>	<input type="checkbox"/>
 <a href="#">lect 2 Inland fisheries: Riverien system</a>	<input type="checkbox"/>
 <a href="#">Lect 3 Inland fisheries: lake system</a>	<input type="checkbox"/>
 <a href="#">lect 4 &amp; 5 Reservoir system</a>	<input type="checkbox"/>
 <a href="#">Lect 5 Inland fisheries: Cold water fisheries</a>	<input type="checkbox"/>
 <a href="#">lect 6 Estuaries fisheries</a>	<input type="checkbox"/>
 <a href="#">lect 7 &amp; 8 Marine fisheries</a>	<input type="checkbox"/>
 <a href="#">lect 9 Offshore and Deep sea fisheries</a>	<input type="checkbox"/>
 <a href="#">lect 10 &amp; 12 Crustacean Fisheries-prawn &amp; crab</a>	<input type="checkbox"/>
 <a href="#">lect 13 &amp; 14 Mollusc fishery- Oyster and Mussel</a>	<input type="checkbox"/>

### MODULE 2

 <a href="#">lec 2: Integrated fish farming</a>	<input type="checkbox"/>
 <a href="#">lec 3: integrated fish farming</a>	<input type="checkbox"/>
 <a href="#">lec 5 &amp; 6: integrated fish farming</a>	<input type="checkbox"/>
 <a href="#">Lec 7: Integrated farming system</a>	<input type="checkbox"/>
 <a href="#">lec 8 &amp; 10: Induced breeding</a>	<input type="checkbox"/>
 <a href="#">lec 11: freshwater and brackish water pond construction</a>	<input type="checkbox"/>
 <a href="#">lec 12: Pond maintenance</a>	<input type="checkbox"/>
 <a href="#">lec 14- control of aquatic weeds and predatory fishes</a>	<input type="checkbox"/>
 <a href="#">lec 15: Marine fishing gears and crafts of goa</a>	<input type="checkbox"/>
 <a href="#">lec 16: inland fishing gear and crafts</a>	<input type="checkbox"/>

### MODULE 3

 <a href="#">LEC 18 &amp; 20: Fish culture system</a>	<input type="checkbox"/>
 <a href="#">LEC 21 &amp; 22: Fish Culture system -2</a>	<input type="checkbox"/>
 <a href="#">lec 24: pond preparation</a>	<input type="checkbox"/>
 <a href="#">lec 25 &amp; 26: cage and pen culture</a>	<input type="checkbox"/>

 [lec 27 & 28: pen culture maintenance](#)



## QUADRANT 2- DESCRIPTIVE PPTS & REFERENCES

### MODULE 1



 [lect 1 Introductory lecture](#)



 [lect 2 Riverine system](#)



 [lect 3 lake system](#)



 [lect 4 Reservoir system](#)



 [Lect 5 cold water system](#)



 [lect 6 estuaries fisheries](#)



 [Lect 7 & 8 Marine system](#)



 [lect 9 offshore and deep sea fisheries](#)



 [lect 10 & 11 Crustacean Fisheries-prawn & crab](#)




 [Prawn fishery](#)



 [Shrimps fishery](#)



 [Prawn fisheries](#)



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 [Crab fishery](#)



 [lect 12 Oyster fishery](#)



 [Oyster fishery](#)



 [lect 13 Mussel fishery](#)



 [Mussel culture](#)



 [Mussel fishery](#)



 [Inland fishery](#)



 [Marine inshore and offshore fishery](#)



### MODULE 2



 [Lec 2 -Integrated fish farming](#)



 [lec- 3 Integrated Fish Farming](#)



 [Lec 5& 6 : Integrated fish farming](#)



 [Lec 7: Integrated fish farming](#)



 [Lec 8: Induced breeding](#)



 [Research article: A review of topography in fish culture in Nigeria](#)



 [lec 11: induced breeding](#)



 [reference video- induced breeding](#)



 [Reference reading: pond construction](#)



 [pond construction](#)



 [Lec 12- Pond Maintenance](#)




 [video 2: induced breeding](#)



 [Lec 14- Control of Aquatic weeds](#)

 [video - fishing crafts and gears](#)

 [video 2- purse seine](#)

 [Lec 16: inland fishing gears and crafts](#)

## MODULE 3

 [LEC 18 & 20: Fish Farming](#)


 [reference reading: zero water exchange systems](#)

 [Reference reading: fish farming](#)

 [lec 21 & 22: Fish Farming-2](#)

 [reference article: fish farming](#)

 [Lec 24: Fish Farming \\_3](#)

 [Lec 25 & 26: Cage Culture](#)

 [Lec 27 & 28: Pen culture](#)

## QUADRANT 3- ( ACTIVITIES)

 [discussion forum - module 2](#)

 [discussion forum module 3](#)

 [Discussion forum module 1](#)

 [MOCK TEST - MODULE 2](#)

## ACTIVITY - 1 ( WORKSHEET)

 [Mod 1 Worksheet](#)

 [module-2 worksheet](#)

 [Module 3- worksheet](#)

## ACTIVITY -2 CRITICAL THINKING

 [MODUEL 1- PBL](#)

 [MODULE 2- PBL](#)

 [Module 3- PBL](#)

## ACTIVITY -3 GOBBET

 [MODULE-1 GOBBET](#)

 [MODULE -2 GOBBET](#)

 [MODULE -3 GOBBET](#)

 [mock test module 3](#)

## PRACTICALS








 [Journal](#)

### Lab Exercise: Identification of Important Edible Shrimps and Crabs





 [exp 1 edibles prawns and crabs](#)

 [identification for prawns](#)

**Lab Exercise: Identification of Important Freshwater and Marine Edible Fishes**

-  [Identification of important freshwater and marine edible fishes \(Presentation\).](#)
-  [Worksheet for practical](#)
-  [Resource for Identification-1](#)
-  [Resource for Identification-2](#)
-  [Resource for Identification-3](#)
-  [Resource for Identification-4](#)
-  [Resource for identification-5](#)

**Lab Exercise: Estimation of Fecundity by Frequency Polygon Method From a Marine Fish**

-  [Estimation of Fedundity by Frequency Polygon Method \(Presentation\).](#)
-  [Gonadosomatic Index \(Presentation\).](#)
-  [Gonadosomatic Index Introductory Video](#)
-  [Worksheet for practical](#)




**lab exercise: food and feeding of fish by gut analysis**

-  [exercise 5: food and feeding of fish by gut analysis](#)
-  [reference video](#)
-  [reference video](#)

**Lab Exercise: Activities in lieu of field trip**

-  [Activities in lieu of field trip \(Guideline Document\).](#)

**Lab exercise: Morphometric and Meristic characters : a study for fish identification**

-  [lab exercise 1: morphometric and metric characters ppt](#)
-  [additional reading material](#)
-  [Aquaculture and Fisheries PA Question Paper](#)

**PRACTICAL ASSESSMENT-3**

Dear Students

You will fin everything you need for PA-3 here:

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-  [PA-3 Worksheet](#)

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-  [Research Paper-1](#)

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-  [Research Paper-2](#)

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-  [Practical 1 Worksheet](#)

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-  [Practical 6](#)

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## DISTANCE LEARNING SECTION

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### THEORY COMPONENT

#### Activity 1.1: Instructions

Please carry out the following tasks (Please find all the links to the activity below):


1. Please go through the lecture material titled "Lecture 11 & 12: Edible oyster and mussel fisheries of Goa".
2. Please go through the lecture material titled "Lecture 13 , 14 & 15: Marine & Inland Fishing Crafts and Gears used in Goa"
3. Please go through the lecture material titled "Fishing Crafts & Gears".

 [Lecture 11 & 12: Edible Oyster and Mussel Fisheries of Goa](#)

 [Lecture 13 , 14 & 15: Marine & Inland Fishing Crafts and Gears used in Goa](#)

#### Activity 1.2: Instructions

1. This is an individual activity.
2. This activity covers the following topics of the syllabus: a) Edible Oyster and Molluscan Fisheries of Goa b) Marine & Inland Fishing Crafts and Gears used in Goa.
3. You are required to go through the aforementioned lecture presentations before starting this activity. However, please do not copy information from the presentation for this activity. You are required to consult the resources available on the internet.
4. Date of submission: 2nd April 2020 via. email to [sjdo06@chowgules.ac.in](mailto:sjdo06@chowgules.ac.in) with the subject "Aquaculture Activity". Emails with any other subject will not be opened
5. The activity contains the following: 03 videos that you have to summarise; 02 Problem-based Questions; 05 Descriptive Questions

 [Please find activity 1.2 here](#)

 [Learn from Home Competency Assessment](#)

Dear student,

This assessment will only check your understanding of the course matter and will not be contributing to your results in any shape or form.

### PRACTICAL COMPONENT

#### Practical Activity-1: Guidelines

1. This is an individual activity.
2. This activity is a component of PA-3
3. Date of submission: 3rd April 2020 via. email to [zoology@chowgules.ac.in](mailto:zoology@chowgules.ac.in) with the subject "Aquaculture Practical Activity". Emails with any other subject will not be opened.
4. The activity contains 03 videos that you have to summarise.

 [Please find the practical activity here](#)

#### Practical Activity-2 Guidelines

Dear Students,

Due to the uncertainty caused by the covid-19 outbreak, we are unable to conduct the practicals on fecundity analysis. Therefore, the faculty have decided to conduct an activity in lieu of the practical. In view of this, you are requested to carefully read the three research papers linked below. An activity for the same will be uploaded shortly.

 [Paper-1](#)

 [Paper-2](#)

 [Paper-3](#)

 [Practical Worksheet-1](#)

## QUADRANT 4 ( ALL ASSESSMENTS)

### CONTINUOUS ASSESSMENTS

[CA-1 ASSIGNMENT](#)[GUIDELINES FOR WRITING ASSIGNMENT](#)[GUIDELINE FOR CA-2 MCQ](#)[CA-2 guidelines for portfolio submission](#)[Portion for CA-2 MCQ](#)[Aquaculture CA-2.2 MCQ](#)

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### TOPIC 11

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### TOPIC 12


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### TOPIC 13

#### ABOUT US

Parvatibai Chowgule College of Arts and Science is a premier educational institution in the State of Goa, offering courses at Graduate and Post Graduate levels and also Ph.D. programmes. Parvatibai Chowgule College is accredited by NAAC with Grade 'A' (CGPA of 3.41 on a 4-point scale on the 3rd cycle). Adjudged by Goa University as the Best Affiliated College at the time of its Silver Jubilee celebrations in the year 2009, it was also conferred with the Best Educational Institute award by Business Goa in 2014. Start Learning Now

#### CONTACT US

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 E-mail: [principal@chowgules.ac.in](mailto:principal@chowgules.ac.in)



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