

IDEAL COLLEGE OF ARTS AND SCIENCES
(AUTONOMOUS & NAAC B)

VIDYUTHNAGAR, KAKINADA
DEPARTMENT OF FISHERIES AND AQUACULTURE

Date: 07.11.2023

**BOARD OF STUDIES FOR B.VOC. COMMERCIAL AQUACULTURE FOR THE
YEAR 2023-2024**

A meeting of Board of studies of the Department of Fisheries and Aquaculture will be held on 07.11.2023 at 11.00 A.M in Ideal College of Arts and Sciences (Autonomous), Vidyutnagar, Kakinada, to consider the following Agenda.

You are cordially invited to attend the meeting and make it a success.

Agenda:

- 1.To ratify the syllabus for the second year and Third year (III, IV & V Semesters).
- 2.To prepare and ratify scheme of Examinations for both internal and external examinations.
- 3.Model Question paper for Second year and Third Year.
- 4.To fix Panel of paper setters and Examiners.
- 5.To approve the syllabus, model question paper for interdisciplinary programme ornamental fisheries.
- 6.To approve the syllabus for skill development course personality development and leadership.
- 7.Additional inputs into the curriculum and up gradation of syllabus incorporate the Apprenticeship.
- 8.Other academic activities of Department.

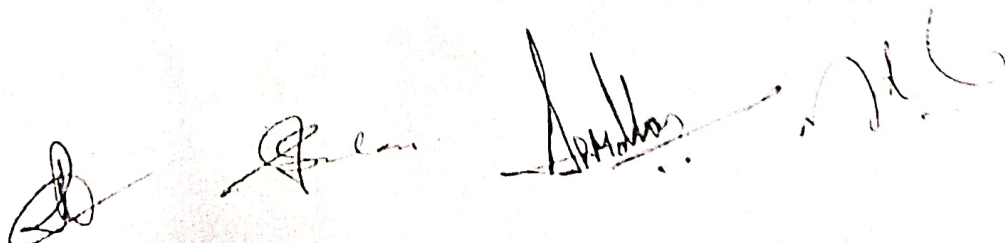
T. Subramanyam
PRINCIPAL
Ideal College of Arts & Sciences (A)
KAKINADA

IDEAL COLLEGE OF ARTS AND SCIENCES
(AUTONOMOUS & NAAC B)

A.Y.2023-2024
DEPARTMENT OF FISHERIES AND AQUACULTURE
B.VOC., Commercial Aquaculture

Resolutions:

1. Resolved to follow the following pattern for Examinations.
 - a) The syllabus is divided in to two semesters each paper has 40% internal and 60% External for III, IV Semester And ,30% internal and 70% external for V semester (Second Year & Third Year).
 - b) During each semester two internal Examinations for each paper will be conducted as per schedule in descriptive mode.
 - c) No internal examination/semester examination will be conducted separately for the absentees.
 - d) Average of the two internal Examinations will be considered. Absentee will be awarded zero marks.
 - e) The minimum pass mark for external examination is 35%. Candidate should get a total of 40 marks in internal and external examination put together.
 - f) The pattern of semester examinations and practical III, IV & V is herewith appended.
 - g) Practical examination will be conducted at each Semester end.
2. Resolved to approve the model question papers for III, IV & V semesters are here with appended.
3. Resolved to approve the panel of paper setter and examiners as appended herewith.
4. Additional inputs into the curriculum and up gradation of syllabus will be incorporated the OJT (On Job Training) and Project Work.
5. Resolved to introduce fishing methods paper in the place of Fish Seed Production in second semester.
6. Resolved to introduce fish seed production paper in the place of fishing methods in third semester.
7. Resolved to introduce elective paper livestock management in V semester zoology
8. First semester and Third semester followed as per APSCHIE syllabus .



IDEAL COLLEGE OF ARTS AND SCIENCES
(AUTONOMOUS & NAAC B)

Bachelor of Vocation: Commercial Aquaculture
Course structure and syllabus; 2023-2024
Admitted Batch II Year, Semester III

| S.No | Course | Total Marks | Mid Sem Exam | Sem End Exam | Teaching Hours | Credits |
|--------------------------|---|-------------|--------------|--------------|----------------|-----------|
| General Education | | | | | | |
| 1. | English | 100 | 40 | 60 | 4 | 3 |
| 2. | Second language-Telugu | 100 | 40 | 60 | 4 | 3 |
| 3. | Life Skill Course-1 | 50 | - | 50 | 2 | 2 |
| 4. | Life Skill Course-2 | 50 | - | 50 | 2 | 2 |
| 5. | Skill Development Course | 50 | - | 50 | 2 | 2 |
| Skill Education | | | | | | |
| 1 | Zoology (Cell biology, Genetics, Molecular Biology & Evolution) | 100 | 40 | 60 | 4 | 4 |
| 2 | Lab Practical | 50 | - | 50 | 2 | 1 |
| 3 | Capture fisheries | 100 | 40 | 60 | 4 | 4 |
| 4 | Lab practical | 50 | - | 50 | 2 | 1 |
| 5 | Aquaculture nutrition | 100 | 40 | 60 | 4 | 4 |
| 6 | Lab Practical | 50 | - | 50 | 2 | 1 |
| 7 | Fish Seed Production (no practical) | 100 | 40 | 60 | 4 | 4 |
| 8 | OJT | 50 | - | 50 | 2 | 1 |
| 9 | Yoga | - | - | - | - | 1 |
| | Total | 950 | | | 38 | 33 |

[Handwritten signatures and marks]

IDEAL COLLEGE OF ARTS AND SCIENCES
(AUTONOMOUS & NAAC B)

Course structure and syllabus: 2023-2024 Admitted Batch
B.VOC.COMMERCIAL_AQUACULTURE
II Year, IV semester

| S. No | Course | Total Marks | Mid Sem Exam | Sem End Exam | Teaching Hours | Credits |
|--------------------|---|-------------|--------------|--------------|----------------|---------|
| Core Papers | | | | | | |
| 1. | Zoology(Physiology, Cellular Metabolism & Embryology) | 100 | 40 | 60 | 4 | 4 |
| 2. | Lab | 50 | - | 50 | 2 | 1 |
| 3. | Zoology(Immunology & Animal Biotechnology) | 100 | 40 | 60 | 4 | 4 |
| 4. | Lab | 50 | - | 50 | 2 | 1 |
| 5. | Fish Genetics and aquaculture Biotechnology | 100 | 40 | 60 | 4 | 4 |
| 6. | Lab-Practical | 50 | - | 50 | 2 | 1 |
| 7. | Fish Pathology and Fish Immunology | 100 | 40 | 60 | 4 | 4 |
| 8. | Lab-Practical | 50 | - | 50 | 2 | 1 |
| 9. | Ornamental fish culture | 100 | 40 | 60 | 4 | 4 |
| 10. | Lab | 50 | - | 50 | 2 | 1 |
| 11. | Larval Nutrition&culture of fish food organisms.(nopractical) | 100 | 40 | 60 | 4 | 4 |
| 12. | OJT | 50 | - | 50 | 2 | 1 |
| 13. | NCC/NSS/Sports/Extra Curricular | - | - | - | - | 2 |
| 14. | Yoga | - | - | - | - | 1 |
| | Total | | 240 | 660 | | |
| | Grand Total | 900 | | | 36 | 33 |

Second spell between First year and Second Year Apprenticeship: Credits: 4; Mark-100

IDEAL COLLEGE OF ARTS AND SCIENCES
(AUTONOMOUS & NAAC B)

Course structure and syllabus: 2023-2024 Admitted Batch
B.VOC. COMMERCIAL AQUACULTURE

III Year, Semester V

| III Year; Semester V | | | | | | | |
|----------------------|---|---------------------|-------------------------|-----------------------|------------------------|-----|------------|
| S.NO | Course name | Course type (T/L/P) | Hrs/Week (Sciences 4+2) | Credits (Science 4+1) | Each course Evaluation | | |
| | | | | | MID | SEM | Total |
| 1 | Zoology (Elective from common B.Sc syllabus) * | T | 4 | 4 | 30 | 70 | 100 |
| 2 | Zoology (Elective from common B.Sc syllabus Practical) * | L | 2 | 1 | 0 | 50 | 50 |
| 3 | Zoology (Elective from common B.Sc syllabus) * | T | 4 | 4 | 30 | 70 | 100 |
| 4 | Zoology (Elective from common B.Sc syllabus) * | L | 2 | 1 | 0 | 50 | 50 |
| 5 | Fishery By-Products | T | 4 | 4 | 30 | 70 | 100 |
| 6 | Fishery By-Products Practical | L | 2 | 1 | 0 | 50 | 50 |
| 7 | Fish Processing Technology and Quality Control | T | 4 | 4 | 30 | 70 | 100 |
| 8 | Fish Processing Technology and Quality Control Practical | L | 2 | 1 | 0 | 50 | 50 |
| 9 | Aquaculture Engineering | T | 4 | 4 | 30 | 70 | 100 |
| 10 | Aquaculture Engineering Practical | L | 2 | 1 | 0 | 50 | 50 |
| 11 | Fisheries Management, Economics and Marketing(No Practical) | T | 4 | 4 | 30 | 70 | 100 |
| 12 | On Job Training | L | 2 | 1 | 0 | 50 | 50 |
| | Total | | 36 | 30 | | | 900 |

[Handwritten signatures and marks]