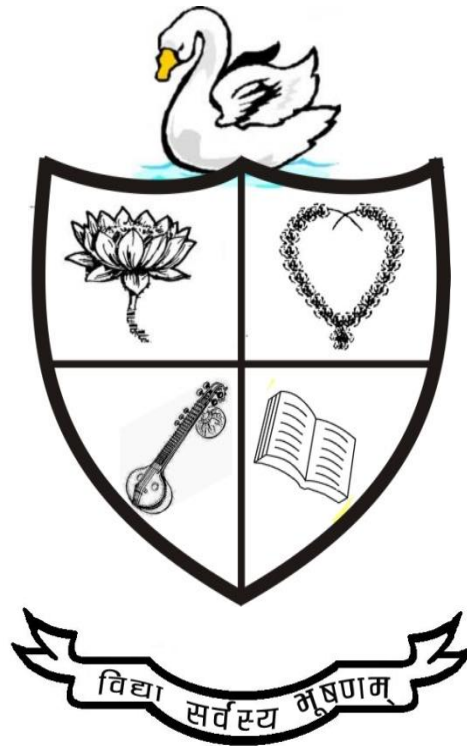


**GOVT. DIGVIJAY P.G. AUTONOMOUS COLLEGE
RAJNANDGAON (C.G.)**

DEPARTMENT OF ZOOLOGY



B.Sc. Zoology Semester Exam (I – IV)

Syllabus

(2022 – 23)

**(Approved by Board of Studies)
Effective from July 2022-23**

Department of Zoology

B.Sc. Zoology

2022-23

Programme Outcomes

Specifically, the graduates will be adept in a number of transferable, analytical and communication skills including:

Class	Out Come
SEMESTER: I,II	<ul style="list-style-type: none">➤ The ability to demonstrate sound understanding related to biology, breeding, genetics and nutrition of various cultivable organisms.➤ Acquired sufficient skills and knowledge in aquaculture reproduction, hatchery management and applied genetics.➤ Gained sufficient knowledge on applying the adaptive management strategies to protect the endemic freshwater and brackishwater fishery resources.➤ Ability to diagnose aquaculture related diseases and manage health and safety issues in aquaculture ventures.
SEMESTER: III & IV	<ul style="list-style-type: none">➤ Employ scientific techniques, practical skills and management strategies aimed at improving culture resource management.➤ Expertise in handling various instruments and technical aspects related to water/soil quality assessment thus resulting in solving issues in connection with quality management in culture systems.➤ Skilled to analyse the quality assessment and post-harvest technology to manage live fish and fishery products.➤ Exploit and utilize wisely fisheries resources using appropriate and innovative fishing methods.➤ Apply post-harvest practices that are compliant to international standards for food safety and quality.
SEMESTER: V & VI	<ul style="list-style-type: none">➤ Engage effectively in biochemical analyses which are relevant in culture industry.➤ Understand and interpret critical scientific and ethical issues related to culture ecosystems and recommend conservatory measures to manage a balanced aquaculture ecosystem.➤ Demonstrate research skills and scientific methodologies for further studies, research and employment.➤ Gained notes in fields allied to fisheries economics and extension and engage in activities which will result in sustainable production systems and dissemination of knowledge to the society.➤ Have a strong hold in the concepts of management & marketing and develop the capacity to produce innovative ideas & tactical skills required for an entrepreneurial career.

Course Outcome

In addition, the students will have the ability to

- Retrieve and present scientific information, including communicating effectively with a variety of audiences in written and spoken form as well as digital format.
- Understand and apply relevant scientific principles and work effectively, cooperatively and productively within a team.
- critically analyse and evaluate data in fisheries science and creatively solve practical problems. The entrepreneurial skills of the students are enabled through the different training sessions and they will have the capacity to develop, operate and manage a fishery related business through self entrepreneurship. As the course is more processing industry oriented the students will possess the essential skills required to cater the seafood processing sector. Program Specific Outcomes On completion of the B.Sc. Industrial Fish & Fisheries program the students would be skilled in the following specific areas.
- Become adept in the concepts of capture, culture and management of fisheries making oneself suitable employment in both the public and private sector.
- Identify and formulate technically sound, economically feasible and socially relevant fishery related projects.
- In depth knowhow of the fishery products and by-products technology to venture into self entrepreneurship.
- Proficient in various aspects of quality control and quality assurance of seafood products enhancing the employability potential in the seafood industry.
- Apply the principles of economics and marketing along with the attained entrepreneurship skills to own business ventures.