

VEER NARMAD SOUTH GUJARAT UNIVERSITY



DEPARTMENT OF AQUATIC BIOLOGY

PLACEMENT BROCHURE

2023-2024



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INTRODUCTION

The Department of Aquatic Biology is the only University Department in Gujarat and the second in India to provide a thorough grounding in biological aspects of aquatic environments to students and researchers specializing in basic studies in aquatic resources. The department functions as a bridge between agencies/ industries and students for employment and career opportunities. University's cell and faculty members of the Department guides for training themselves for facing job interviews. In 2014-15 67% of students got recruited through campus. Serving society for more than two decades through research and skilled manpower, the Department of Aquatic Biology is moving ahead with the new mission with the following future plans:

- Exploring and utilizing potential aquatic resources
- Strengthening Department- Industries liaison
- Placement of students
- Establishment of Extension Education & Training Centre
- Revenue generation

Vision and Mission

The department's extensive vision is to improve students' skills and knowledge by educating them in theoretical and practical knowledge. The department aims to develop manpower for serving the Society. The Mission of the Department of Aquatic Biology is to protect, conserve, and vitalize the local, regional, and national aquatic resources for human wealth and health through its various programs and activities

Thrust areas

Aquatic ecology, Hydrobiology and fish biology, Pollution & toxicology
Aquaculture and Fish cytogenetics, planktonology and aquatic microbiology

Infrastructure and learning resources

Class rooms

Equipped Laboratories

PG Lab

Research Lab

Water testing Lab

Reading room

Computer room

Seminar hall

Aquarium room

Ladies room

Museum



Potency of the Department

Testing laboratory (Source of revenue generation)

The Department of Aquatic Biology has developed a testing laboratory accredited by NABL for the measurement of radioactivity in packaged drinking water. VNSGU is the first University in Gujarat and second in India for this innovative accreditation.



Training

The Department of Aquatic Biology has been rigorously working for the skill and personality development of the students. They are exposed to practical and technical environments through their placement and training. Two trainings sponsored by MPEDA (Marine Product Export Development Board) and NFDB (National Fisheries Development Board) were organized by the Department for M.Sc. students. MPEDA training is mandatory to start shrimp farming. NFDB-sponsored training at Udaipur was focused on self-employment in the area of aquarium management. Training on Ornamentation was also organized for the skill development of the students in the field of ornamental fisheries.

Curricular aspects

- The curriculum of Aquatic Biology has been carefully designed to develop skilled and technical post-graduates.
- It is in line with the guidelines of the regulatory authorities of the University Curriculum Development Committee and UGC.
- The Department promotes interdisciplinary programs that develop knowledge in various fields related to aquatic biology.
- Development of communication and writing skills through seminars and report writing.

Programs / Courses

Programme / Course		Commencement Date	Duration
1	M.Sc.	1993-2010 2010 onwards	Two years Four semesters
2	Ph.D.	1993	Minimum three years of research and one semester course work(Theory)

Scope of the Course

- ❖ To exploit the potential in Freshwater Aquaculture, Marine water and Brackish water Aquaculture with utilization of the aquatic resources
- ❖ Job opportunities in industries, research institutes and Aquaculture industries for self-employment
- ❖ Pursuing research careers in related fields

FRAMEWORK OF M. Sc. COURSE IN AQUATIC BIOLOGY

M. Sc. Sem I						
Theory Paper /Practical	Teaching schedule Hrs /week	Exam Schedule			Total marks	Credit
		Duration (Hrs)	Internal marks	External marks		
Theory papers :						
AQB 101: Aquatic resources and management	04	03	30	70	100	04
AQB 102: Aquatic Pollution and Toxicology	04	03	30	70	100	04
AQB 103: Fish physiology and Endocrinology	04	03	30	70	100	04
Elective Paper AQB 104: A-Instrumentation AQB:104: B-Computer Application	04	03	30	70	100	04
Practicals :						
AQB 105: Water & Sediment analysis, Instrumentation and Fish physiology	12	10-15	50	100	150	06
Skill based elective paper AQB 106: Aquarium management for employment	02	00	20	30	50	02
Total	30	Total	190	410	600	24

M. Sc. Sem II						
Theory Paper /Practical	Teaching schedule Hrs /week	Exam Schedule			Total marks	Credit
		Duration (Hrs)	Internal marks	External marks		
Theory papers :						
AQB 201: Fisheries Technology	04	03	30	70	100	04
AQB 202: Fish Nutrition and feed Technology	04	03	30	70	100	04
AQB 203: Fish Genetics and Biotechnology	04	03	30	70	100	04
Elective Paper AQB 204: A-Fisheries Legislation AQB:204: B-Biostatistical analysis	04	03	30	70	100	04
Practicals :						
AQB 205: Biochemistry, Genetics, Fisheries Technology and Biostatistics	12	10-15	50	100	150	06
Skill based elective paper AQB 206:Fish products and Byproducts technology	02	00	20	30	50	02
Total						
	30	Total	190	410	600	24

M. Sc. Sem III						
Theory Paper /Practical	Teaching schedule Hrs /week	Exam Schedule			Total marks	Credit
		Duration (Hrs)	Internal marks	External marks		
Theory papers :						
AQB 301: Aquatic Microbiology &Disease Management	04	03	30	70	100	04
AQB 302:Aquaculture Practices	04	03	30	70	100	04
AQB 303:Planktonology	04	03	30	70	100	04
Elective Paper AQB 304: A-Fisheries Extension Education AQB:304: B-Research methodology and Writing skill	04	03	30	70	100	04
Practicals :						
AQB 305: Aquatic Microbiology, Aquaculture, Planktonology and Extension Education	12	10-15	50	100	150	06

Papers	Exam Schedule			Total marks	Credit	
	Internal marks	External marks				
AQB: 401 Dissertation	90	210		300	12	
AQB:402 Research paper preparation and communication	45	105		150	6	
AQB: 403 Licensing and certification of Aquaculture practices	22.5	52.5		75	3	
AQB404: Education tour/Field work/Project submission	22.5	52.5		75	3	
Total	180	420		600	24	
Skill-based elective paper AQB 306:Entrepreneurship Development in Fisheries	02	00	20	30	50	02
Total	30	Total	190	410	600	24

Course content for Ph.D

Theory

AQB 1001: Research Methodology & Instrumentation

AQB 1002: Advances in Fishery science

AQB 1003: Aquatic Pollution

Research work minimum for 3 years as per the University guidelines

Career opportunities

Central and State Government Fisheries Department

Educational institutes

University and colleges relevant to the availability of subject requirement

Research institutes / Laboratories

Extension Educational institutes: KVK / KGK

NGOs

Self-Employment

Fish farming

Farming input Supplier

Seed producer

Fish / Prawn producer

Aqua-industries

Farms

Processing plants

Feed industries etc.



At the Department of Aquatic Biology, to be successful in work placement we forge on both host recruiters and students

Placement profile

Name :Manish Bakshi
Filed Technician
Aquatech Aquahealth, Thana
Rd,Tarakeswar,West Bengal
Salary/month: 30,000/-



Name :Dhali Shabor
Project Associate-I
ICAR Central institute of Brackishwater
Aquaculture, Chennai
Salary/month: Rs 39,370



Name :Jana Pratyush kumar
Assistant Technician
Mr.Suman goel
Aqua fauna Exports, Uttarbaluria, Talikhola
Barrackpore Road,Kolkata
Salary/month: Rs 10,000/-



Name :Mary Anthony Raj
Project Associate-I
National institute of Oceanography,
Lokhandwala road, Andheri west, Mumbai,
Maharashtra
Salary/month: Rs 25,000/-



Name :Pal Arijit
Dr.Keshab C Mondal Department of
Microbiology, Vidyasagar University,
Midnapore,Paschim Medinipur, West
Bengal
Salary/month: Rs 20,000/-



Name :Saha Tirthankar
Filed Technician
Aquatech Aquahealth, Thana
Rd,Tarakeswar,West Bengal
Salary/month: Rs 29,000/-



Name : Saptaporni Bit
Aquatic Educator
Dr.Dishant Parasharya, Gujarat Science City,
Ahemdabad
Salary/month: Rs 24,000/-



GLIMPSE OF THE DEPARTMENT



Student's presentation



Alumini Meet



Tapi cleaning



Routine Practical's



Excursion



Research activities