

Bachelor Of Fisheries Science [BFSc]

Stream - Science

Course - General

Duration - 4 Years

Course Type - Graduation

B.F.Sc.: Course Highlights

Course Level	Graduate
Duration of the Course	4 years
Examination Type	Semester and Annual
Eligibility	10+2 or equivalent education
Admission Process	Entrance exam and Merit Based
Average Course Fee	INR 5000 to 2 lacs
Average Starting Salary	INR 2 to 10 Lacs

Top Recruiting Companies	Export Inspection Agency (EIA), Marine Product Export Development Authority (MPEDA), Coastal Aquaculture Authority of India (CAA), Fisheries Survey of India (FSI), Food Safety and Standards Authority of India (FSSAI), Indian National Centre for Ocean and Information Services(INCOIS), National Institute of Oceanography(NIO), NIO, WHO etc,
Top Job Areas	Fisheries Colleges, Research Institutes, Fish Farmers Development Agencies, Krishi Vigyan Kendra, Nationalized Banks, International Organizations, Aquariums, Fish Farms, Feed Manufacturing Units, Feed Sales Department, Ornamental Fish Culture and Breeding Centres, Hatchery and Seed Production Companies, Commercial Pearl Production Industry, Fish Processing and Marketing Firms, Net Making Units, Fish Disease Diagnostic Centre etc.
Top Job Positions	Farm Manager, Hatchery Manager, Fisheries Inspector, Aqua Culturist, Fish Exporter, Marine Biologist & Marine Scientist, Fish Trader, Fish Breeder, Hatchery/Farm Operator, Fisheries Extension Officer/Technical Officer, Feed Mill Manager, Processing & Production Manager, Fish Export Inspector, Export Manager, Fisheries Extension Officer etc.

B.F.SC.: What is it About?

Fisheries Science is influenced by the conservation, catching, marketing, managing and processing of fish and is dealt with as a standout amongst the most vital territories in the field of Science. This field is an interdisciplinary one and necessities to gather information from various fields like Management, Oceanography, Ecology, Economics and Biology.

Both, B.F.Sc. and B.Sc. (Fisheries) is relatively same. The course's educational program is intended to examine and study various aspects relating and identifying to the breeding of fish alongside cultivating and farming of essential fishes and aquatic organisms. The program of

study additionally incorporates B.F.Sc in the marine environment, brackish water and fresh water. B.F.Sc (fisheries) is a 4-year undergraduate program conducted in 8 semesters.

After successful completion of B.F.Sc, various higher study options are available. Candidates can go for Masters of Fisheries Science (M.F.Sc.) or they can get into job positions such as biochemist, research assistant, technicians or as biologist etc.

Other alternatives are available in front of B.F.Sc. candidates are M.B.A. program. This program will empower candidates to gain management skills and will thus help them enhance their qualifications.

B.F.Sc.: Top Institutes

Given below are some of the top institutes in India that offer the course.

Name Of Institute	City	Average Fees
Sacred Heart College	Ernakulam	INR 5,640
Mahatma Gandhi University	Kottayam	INR 33,000
Kerala University of Fisheries and Ocean Studies	Kochi	INR 29,400
Cochin University of Science and Technology	Kochi	INR 42,300
ST Albert's College	Ernakulam	INR 13,000
Patna University	Patna	INR 3,560
Ashutosh College	Kolkata	INR 1,800
Govind Ballabh Pant University of Agriculture and Technology	Pantnagar	INR 84,100
University of Calcutta	Kolkata	INR 7,030
Annamalai University	Chidambaram	INR 13,200
Utkal University	Bhubaneswar	INR 1,590
Aligarh Muslim University	Aligarh	INR 7,630

Junagadh Agriculture University	Junagadh	INR 21,8001
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B.F.Sc.: Eligibility

Listed below are the minimum criteria which candidates interested in pursuing the course are required to fulfil, in order to be eligible to apply for the course.

To pursue a B.F.Sc. degree program, candidate requires a 10+2 pass in science stream with Physics, Chemistry and Biology as subjects.

B.F.Sc.: Admission Process

Candidates applying for B.F.Sc. courses in Fisheries after the completion of 10+2 with PCB group have to clear the entrance examination conducted by Indian Council of Agricultural Research (ICAR) Common Entrance Test. Some colleges and institutes provide direct admission based on marks and a round of personal interview of the candidates. Following are a few entrance tests that are conducted by some of the Bachelor of Fisheries Science colleges in India:

- Karnataka Common Entrance Test
- Junagadh Agricultural University Entrance Test
- Kerala Agricultural University Common Entrance Test
- Maharana Pratap University Graduate Test
- Central Institute of Fisheries, Nautical & Engineering Training Entrance Test.

B.F.Sc.: Syllabus and Course Description

A year-wise breakup of the course's syllabus is tabulated below.

Semester I	Semester II
Principles of Aquaculture	Information & Communication Technology

Taxonomy of Finfish	Freshwater Aquaculture
Taxonomy of Shellfish	Anatomy of Finfish and Shellfish
Meteorology & Geography	Biology of Finfish & Shellfish
Principles of Biochemistry	Soil and Water Chemistry
Fundamentals of Microbiology	Limnology
Fishery Economics	Food chemistry & Fish in Nutrition
-	Biochemical Techniques & Instrumentation
Semester III	Semester IV
Culture of Fish Food Organisms	Aquaculture Engineering
Inland Fisheries	Ornamental Fish Production & Management
Oceanography	Coastal Aquaculture & Mariculture
Fish Nutrition & Feed Technology	Physiology of Finfish & shellfish
Marine Biology	Fishing Craft & Gear Technology
Refrigeration and Freezing Technology	Canning & Fish Packaging Technology
Statistical Methods in Fisheries	Extension Education in Fisheries
-	Fisheries Administration & Legislation
Semester V	Semester VI
Aquatic Ecology & Biodiversity	Biotechnology & Bioinformatics in Fisheries
Finfish Breeding & Hatchery Management	Fishery Genetics & Breeding
Shellfish Breeding & Hatchery Management	Fish Population Dynamics & Stock Assessment
Diseases & Management	Aquatic Pollution & Coastal Zone Management
Marine Fisheries	Fish Products and By products Technology
Disaster Management in Fisheries	Fish Microbiology and Quality Assurance
Navigation & Seamanship	Financing and Marketing Management in Fisheries

-	Entrepreneurship Development and Communication Skills
Semester VII	Semester VIII
Hands-on Training in Fisheries (Experiential Learning)	In-plant training in

Job Position	Job Description	Average Annual Salary
Farm Manager	Farm Manager is in-charge of general maintenance and management of a farm. They supervise the planting, fertilizing, cultivating, spraying, and harvesting process of crops.	INR 350,000
Hatchery Manager	Hatchery Manager is responsible to oversee and direct the fish hatchery and fish farm activities, working to enhance profit and production through innovative and business management skills.	INR 259,121
Fisheries Inspector	Fisheries Inspector is responsible to manage, monitor and protect farmed or wild fish stocks and the lakes, river and different habitats where they live.	INR 450,000
Aqua Culturist	Aqua Culturist is responsible for the farming of aquatic organisms, including growing freshwater and culturing and shellfish, marine finfish, and aquatic plants.	INR 350,000
Marine Biologist	Marine Biologist is responsible for examining and analysing the distribution and evolution of organisms and their environment into the sea.	INR 452,000